



RESEARCH AND CREATIVE ACTIVITY

JULY 01, 2022-JUNE 30, 2023

Major Sponsored Programs and Faculty Accomplishments in Research and Creative Activity



Sherri M. Jones
Interim Vice Chancellor for
Research and Economic Development

This booklet highlights successes in research, scholarship and creative activity by University of Nebraska–Lincoln faculty during the fiscal year running July 1, 2022, to June 30, 2023.

It lists investigators, project titles and funding sources on major grants and sponsored awards received during the year, including early career awards; fellowships and other recognitions and honors bestowed on our faculty; books, chapters and journal articles published by faculty; performances, exhibitions, creative literature and other examples of creative activity; patents, licensing agreements and National Science Foundation I-Corps teams; and conference presentations. In recognition of the important role faculty have in the undergraduate experience at Nebraska, this booklet notes the students and mentors participating in the Undergraduate Creative Activities and Research Experience (UCARE) and the First-Year Research Experience (FYRE) programs.

Increasing impact through research and creative activity is one of the six core aims of the N2025 strategic plan. A few measurements of progress made this year:

- UNL achieved a record \$340 million in total research expenditures in FY 2022, a 34% increase over the past decade.
- Our faculty earned 1,668 sponsored research awards in FY 2022.
- Contributions in the fine and performing arts, and through the humanities disciplines, are shaping the culture and understanding of the world. For example, in 2023 Nebraska researchers earned the largest arts and humanities research grant in university history to study lesser-known civil rights cases.

N2025 aims also include contributing to economic growth throughout the state and broadening Nebraska's engagement in community, industry and global partnerships. Some measures of our efforts to commercialize university-sponsored research and partner with industry include:

- Nebraska Innovation Campus has 58 diverse public- and private-sector partners.
- Industry sponsorship supported \$19.8 million in research expenditures.
- NUtech Ventures brought in \$5.7 million in licensing income in FY 2023.

Through the Grand Challenges initiative, Nebraska faculty are addressing some of society's most complex problems. Grand Challenges is a \$40 million investment from the Office of Research and Economic Development and the Office of the Chancellor to advance areas in which Nebraska has unique expertise and knowledge. So far, \$20 million has been allocated to highly innovative and interdisciplinary projects. About 130 faculty, staff and students are involved in projects funded in the initiative's second year.

The Nebraska Research community is changing the world through research, scholarly and creative activity. We are proud to be Nebraska's flagship land-grant university and the only Carnegie R1 institution in the state. Those designations also place UNL in the unique position to significantly impact economic growth and innovation.

Thank you for your many efforts to advance your disciplines, this university and the state. I am pleased to present this record of accomplishments.

Shri M. Jones

Sherri M. Jones

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The Nebraska Research community is changing the world through research, scholarly and creative activity. We are proud to be Nebraska's flagship land-grant university and the only Carnegie R1 institution in the state."

Awards of \$5 Million or More

Active awards, July 1, 2022-June 30, 2023

* Indicates new in 2022-2023

Bevins, Rick	Psychology.
	Rural Drug Addiction Research Cente

Rural Drug Addiction Research Center \$11,854,178.......NIH-NIGMS 4/5/19 = 2/29/24



The Rural Drug Addiction Research Center was created in 2019 as a National Institutes of Health Center of Biomedical Research Excellence, or COBRE. Under the leadership of Rick Bevins, Mildred Francis Thompson University Professor of psychology, the center's mission is to advance understanding of causes, impacts and interventions related to

rural drug addiction in the Midwest, a geographic area that has been historically understudied. Designed to be interdisciplinary and data-driven, the research links pre-clinical studies to field-based behavioral, neural, social, clinical and translational research and dissemination.

Binek, Christian

Physics and Astronomy/Nebraska Center for Materials and Nanoscience

RII Track-1:

	Quantum Materials and Technologies (EQUATE)NSF-EPSCoR
Argyropoulos, C	hristos Electrical and Computer Engineering/ Nebraska Center for Materials and Nanoscience
Bao, Wei	Electrical and Computer Engineering/
	Nebraska Center for Materials and Nanoscience
Dowben, Peter .	Physics and Astronomy/
	Nebraska Center for Materials and Nanoscience
Griep, Mark	Chemistry/
• •	Nebraska Center for Materials and Nanoscience

Guo, Yinsheng	Chemistry/
•	Nebraska Center for Materials and Nanoscience
Hong, Xia	Physics and Astronomy/
	Nebraska Center for Materials and Nanoscience
	Physics and Astronomy/
	Nebraska Center for Materials and Nanoscience
	Chemistry/
	Nebraska Center for Materials and Nanoscience
	Mechanical & Materials Engineering/
	Nebraska Center for Materials and Nanoscience
	Physics and Astronomy/
	Nebraska Center for Materials and Nanoscience
	Electrical and Computer Engineering/
	Nebraska Center for Materials and Nanoscience
,	Electrical and Computer Engineering/
	Nebraska Center for Materials and Nanoscience
	Physics and Astronomy/
	Nebraska Center for Materials and Nanoscience
Tsymbal, Evgeny	Physics and Astronomy/
	Nebraska Center for Materials and Nanoscience
	Physics and Astronomy/
	Nebraska Center for Materials and Nanoscience



Funded by the National Science Foundation, the Emergent Quantum Materials and Technologies collaboration was formed to put Nebraska at the forefront of research and education in quantum materials and technology, which will be a major driver of the state and national economy in the future. Christian Binek, Charles Bessey Professor of

physics, leads the EQUATE team, made up of Husker researchers and other partners. The collaboration pursues scientific discovery in quantum materials, which could revolutionize technologies in communication and information processing, medical technology and cryptography. The team also is working toward STEM workforce development, training and education, particularly in Native American and rural communities.

Bloom, Kenneth

Physics and Astronomy

U.S. CMS Operations at the LHC



Ken Bloom, professor of physics and astronomy, oversees Nebraska's leadership of the National Science Foundation-funded portion of the U.S. CMS Operations Program. The university's role in this effort is advancing cutting-edge work in subatomic physics at CERN, the European Organization for Nuclear Research in

Switzerland, site of the Large Hadron Collider,

the world's largest, most powerful particle accelerator.

Brank, Eve

Center on Children. Families and the Law

Training on Family and Policy Services

1/1/18 - 12/31/23

Olson, Kathryn Center on Children, Families and the Law



Eve Brank, Aaron Douglas Professor of psychology and director of the Center on Children, Families and the Law, and Kathryn Olson, associate director of CCFL and research assistant professor of psychology, lead this effort to develop and deliver training to child and family services specialists consistent with federal and state statutes and policy. With the

support of the Nebraska Department of Health and Human Services and the Administration for Children and Families in the U.S. Department of Health and Human Services, the program encompasses development and delivery of child protection and safety training for child protection and safety workers in Nebraska.

Cahoon, Edgar

Biochemistry/Center for Plant Science Innovation



Ed Cahoon, George W. Holmes University Professor of biochemistry, leads an eightinstitution team that is exploring how two oilseeds, camelina and pennycress, can help meet the escalating demand for renewable fuels, industrial chemicals and other bioproducts. With U.S. Department of Energy funding, the team will research oilseeds'

metabolic circuitry, produce genetically enhanced oilseeds and develop synthetic biology tools for crop improvement that could help scientists nationwide. By tapping the full potential of oilseeds, the team's work could help pave the way for Nebraska farmers to diversify their operations and expand into new markets.

Chambers, Jeffrey

Center on Children, Families and the Law



The Center on Children, Families and the Law received a \$6.5 million grant to respond to rural Nebraska homeowners who have been unable to make mortgage and utility payments due to the COVID-19 pandemic and are in jeopardy of losing their homes. Led by Jeff Chambers, senior project director in CCFL, the center is partnering with five community-based

organizations to administer assistance to families. The funding is sponsored by the U.S. Department of Housing and Urban Development Community Development Block Grant COVID-19 program and administered through the Nebraska Department of Economic Development. This work is part of the CCFL Community Services Division's larger efforts to build an infrastructure in Nebraska to respond to families in housing crisis after the pandemic. It is an extension of CCFL's mission of "Helping the Helpers."

Corman, Jessica Natural Resources



With a \$6 million grant from the National Science Foundation's Established Program to Stimulate Competitive Research, Jessica Corman is leading a team in developing a first-of-its-kind national environmental database. This tool will help researchers and policymakers study, predict and manage the ever-changing balance of elements in the

environment and their impact on ecosystems regionally and nationally. The database, a collection of information from streams, lakes and the organisms that reside in them, will unlock major potential in ecological stoichiometry, a framework that explores the mismatch between available environmental elements and what organisms need. Corman, assistant professor of natural resources, is working with partners from the University of Wyoming, Central Arkansas University and Middlebury College.

Emery, Mary Rural Prosperity Nebraska



Rural Prosperity Nebraska, a university hub focused on advancing rural communities, is leading formation of the Heartland Regional Food Business Center. The center, an online platform aimed at connecting and strengthening locally grown food systems, will bring together buyers, sellers, producers, processors and market managers. Funded by a

\$25 million cooperative agreement award from the U.S. Department of Agriculture (among the largest awards ever received by the university), the center will serve Nebraska, Missouri, Kansas, Oklahoma and Iowa. It is one of 12 such centers funded by the USDA, all designed to help historically underinvested communities in their respective regions.

Fischer, Jean Ann Nutrition and Health Sciences

Supplemental Nutrition Assistance Program (SNAP-ED)
\$5,593,571
Nebraska Department of Health and Human Services
10/1/20 - 9/30/24
Behrends, Donna
Franzen-Castle, Lisa
Johnson, Mary Ann Nutrition and Health Sciences
Sehi, Natalie Nutrition and Health Sciences
Wielenga, Vanessa



The Nebraska SNAP-Ed program was designed to encourage improved behavioral outcomes in nutrition, physical activity and obesity prevention, with an eye toward the needs of target populations and barriers to accessing healthy foods and activity. Jean Ann Fischer, extension educator in nutrition and health sciences and human sciences program leader

in Nebraska Extension, leads this effort. SNAP-Ed is focused on food systems and health equity; childhood health; and adults, families and communities. The overarching goal is to reduce the level of obesity, chronic disease and health disparities through various evidence-based interventions. The program leverages partnerships with stakeholders at the local, state, regional and national levels.

Graef, Michelle Center on Children, Families and the Law

Quality Improven	nent Center for Workforce Development
\$17,895,500	DHHS-ACF
9/30/16 - 9/29/23	
Ella Mark	Contar on Children Eamilies and the Law



The University of Nebraska–Lincoln established the Quality Improvement Center for Workforce Development with a grant to the Center on Children, Families and the Law from the U.S. Department of Health and Human Services Administration for Children and Families-Children's Bureau. Under the leadership of Michelle Graef, research professor in the

Center on Children, Families and the Law, this multidisciplinary project studies and tests promising strategies to help child welfare agencies recruit and retain staff workers. Nebraska collaborates with three national child welfare consultants and researchers at the University of Colorado, Denver; University of Louisville; and University of Tennessee, Knoxville. The center draws on a range of expertise, including social work, industrial organizational psychology, human resource management, educational psychology, implementation science and the law.

Guo, Jiantao

Chemistry/Nebraska Center for Integrated Biomolecular Communication

Nebraska Center for Integrated Biomolecular Communication (NCIBC), Phase 2

(NCIBC), Phase 2
\$10,667,732NIH-NIGMS
9/14/21 - 7/31/26
Crawford, Lindsey Biochemistry/Nebraska Center for Integrated
Biomolecular Communication
Lai, Rebecca Chemistry/Nebraska Center for Integrated
Biomolecular Communication
Meng, FanbenMechanical & Materials Engineering/
Nebraska Center for Integrated
Biomolecular Communication
Morton, MarthaChemistry/Nebraska Center for Integrated
Biomolecular Communication
Niu, Wei
Nebraska Center for Integrated
Biomolecular Communication
Powers, Robert Chemistry/Nebraska Center for Integrated
Biomolecular Communication
Riethoven, Jean-Jack Center for Biotechnology/
Nebraska Center for Integrated
Biomolecular Communication
Takacs, James Chemistry/Nebraska Center for Integrated
Biomolecular Communication



A five-year, \$11 million grant from the National Institutes of Health provides continuing support for a research center focused on investigating cellular-level miscommunications that contribute to complex diseases like cancer, diabetes and chronic liver disease. The Nebraska Center for Integrated Biomolecular Communication serves as a hub for

interdisciplinary collaborations among Nebraska's biomedical researchers and involves faculty at the University of Nebraska Medical Center, as well. The center, directed by Jiantao Guo, professor of chemistry, fosters a systems approach, combining the research activities of chemists, biochemists, engineers and bioinformaticists. It connects researchers developing new molecular probes and analytical techniques with those unraveling molecular mechanisms of diseases.

Heng-Moss, Tiffany

College of Agricultural Sciences and Natural Resources



With grants totaling more than \$47,000,000, the College of Agricultural Sciences and Natural Resources at the University of Nebraska-Lincoln is partnering with various associations and foundations to provide educational opportunities for Rwandan students to participate in the CASNR Undergraduate Scholars Program. In support of a Practical

Agriculture Institute in Rwanda, Rwandan students are identified and selected to participate in CUSP to pursue a Bachelor of Science degree in integrated science – an individualized program of study focused on conservation agriculture, entrepreneurship, leadership and innovative thinking. The students' degree programs are specifically designed to be relevant to Rwandan agricultural production and the country's goal of building resilience into its agricultural ecosystems. CASNR dean Tiffany Heng-Moss leads this effort.

Khattak, Aemal

Civil and Environmental Engineering/ Nebraska Transportation Center



The Mid-America Transportation Center, a consortium of academic institutions led by the University of Nebraska–Lincoln, leads a multi-million-dollar research center, funded by the U.S. Department of Transportation through the Fixing America's Surface Transportation Act, to improve transportation safety in Nebraska and neighboring states. The center,

which emphasizes challenges facing rural areas and underserved communities, was designated the University Transportation Center of its four-state region after a competitive review. Aemal Khattak, MATC

director and professor of civil and environmental engineering, leads the research center. Funding enables MATC to leverage its track record of success in transportation research and education to improve safety in the four Region 7 states: Nebraska, Iowa, Kansas and Missouri. MATC is housed in the university's College of Engineering. Its partner institutions include the University of Nebraska at Omaha, University of Nebraska Medical Center, University of Iowa, University of Kansas, University of Kansas Medical Center, Missouri University of Science and Technology, Lincoln University and Nebraska Indian Community College. The consortium also has partnerships with several private-and public-sector entities, including a longstanding relationship with the Nebraska Department of Transportation.

Riley, Mark	Engineering
	d Robotics Cluster: COE DOC-EDA
8/29/22 - 2/28/26 Duncan, Brittany	Computing Mechanical & Materials Engineering
Pitla, Santosh	Biological Systems Engineering Electrical and Computer Engineering



The university plays a leading role in a multi-million-dollar federal award from the U.S. Department of Commerce to advance robotics innovation, industry partnerships and training for Husker students to become next-level robotics entrepreneurs. Mark Riley, associate dean for research in the College of Engineering, is the principal

investigator. The university's portion of the award will benefit multiple research and teaching spaces on campus; the Nebraska Manufacturing Extension Partnership; and Nebraska Innovation Studio and The Combine, both located at Nebraska Innovation Campus. The overarching goal is to bolster Nebraska's automation infrastructure and grow the talent pipeline in robotics, automation, computer vision and artificial intelligence.

Schachtman, Daniel

Agronomy and Horticulture/ Center for Plant Science Innovation/ Center for Biotechnology

Systems Analysis of the Physiological and Molecular Mechanisms



Daniel Schachtman, George Holmes Professor of agronomy and horticulture and director of the university's Center for Biotechnology, leads a \$13.5 million, multi-institutional research effort to improve sorghum as a sustainable source for biofuel production. A five-year grant from the U.S. Department of Energy funds this highly collaborative project that takes a

comprehensive approach to understanding how plants and microbes interact and to learn which sorghum germplasm can grow with less water and nitrogen. The University of Nebraska–Lincoln is collaborating with scientists at Danforth Plant Science Center, Washington State University, University of North Carolina-Chapel Hill, Boyce Thompson Institute, Clemson University, Iowa State University, Colorado State University and the DOE Joint Genome Institute.

Sinitskii, Alexander Chemistry



Alexander Sinitskii, professor of chemistry, leads a team aiming to unlock the potential of graphene nanoribbons, narrow strips of graphene that are only a few carbon atoms wide. Because of their miniscule size and tunable electronic properties, these nanoribbons are considered promising components for the miniature electronic

devices of the future. To realize this potential, researchers are exploring methods for assembling graphene nanoribbons into electronic circuits – a challenging task. With Department of Defense funding, Sinitskii's team is investigating approaches using DNA nanotechnology, which could facilitate controlled self-assembly of graphene nanoribbons up to macroscopic scales.

RII Track-2 FEC: Comparative Genomics and Phenomics Approach
to Discover Genes Underlying Heat Stress Resilience in Cereals
\$5,983,737 NSF-EPSCoR
8/1/17 - 7/31/23
Morota, Gota
Obata, ToshihiroBiochemistry
Yu, Hongfeng Computing
Zhang, ChiBiological Sciences
Zhang, Qi



Harkamal Walia, Heuermann Chair of agronomy, leads a project to explore the effects of high nighttime temperatures on wheat and rice. Temperature stress can lead to severe losses in the yield and quality of crops, especially wheat and rice, two major cereal crops worldwide. With the support of a \$5.98 million grant from the National Science

Foundation's Established Program to Stimulate Competitive Research, Walia's team is investigating genes and genetic variants in wheat and rice to identify genetic markers and physiological characteristics tied to heat tolerance. The team also collaborates with researchers from Arkansas State University and Kansas State University.

Wilhelm, Bob Office of Research and Economic Development

Nebraska Center for Energy Sciences Research \$7,500,000 Nebraska Public Power District 4/1/21 - 3/31/26

The Nebraska Center for Energy Sciences Research is a collaboration between the university and the Nebraska Public Power District. The center was established in 2006 to support energy research that produces new technologies, processes and systems that provide new or significantly enhanced renewable energy sources, improves the quality of life and boosts economic opportunity. The center fosters interdisciplinary collaboration among Nebraska faculty and with other research institutions, public-sector agencies and private-sector companies with similar interests. The center supports both basic and applied research and has a broad mandate to explore a range of renewable energy opportunities (including biofuels and wind/solar energy), as well as opportunities for energy conservation.

Institute of Agriculture and Natural Resources Yoder, Ron

Rwandan Institute of Conservation Agriculture (RICA)
\$17,210,366 Various Sources
10/13/17 - 12/31/23
Davis, Josh Global Affairs
Heng-Moss, TiffanyCollege of Agricultural Sciences
and Natural Resources



The Rwanda Institute for Conservation Agriculture is a unique and innovative English language institution dedicated to preparing the next generation of agricultural leaders of Rwanda and East Africa. Under the leadership of Ron Yoder, senior associate vice chancellor for IANR, the University of Nebraska is serving as a critical academic partner, helping to

design and implement the curriculum and campus operations. RICA students learn the principles of conservation agriculture and One Health while emphasizing written communication, leadership and entrepreneurship. Students at RICA are exposed to six different enterprises, including beef cattle and small ruminants, dairy, poultry and swine, row and forage crops, vegetable and tree crops, irrigation and mechanization.

8

Zempleni, Janos

Nutrition and Health Sciences/ Nebraska Center for the Prevention of Obesity Diseases

COBRE: Nebraska Center for the Prevention of Obesity Diseases through Dietary Molecules

tin ough bit	stary iviologates
\$12,461,656	NIH-NIGMS
8/5/14 - 5/31/24	
Lim, Jung Yul	Mechanical & Materials Engineering
Sukumaran, Sunil	Nutrition and Health Sciences
Vechetti, Ivan	Nutrition and Health Sciences
Wang, Yongjun	Nebraska Center for the
	Prevention of Obesity Diseases
Yao Oiumina	Computing



With the support of a \$12.4 million grant from the National Institutes of Health's Center of Biomedical Research Excellence program, the university has established the Nebraska Center for the Prevention of Obesity Diseases through Dietary Molecules. The center, under the leadership of Janos Zempleni, Willa Cather Professor of molecular nutrition, focuses on

understanding nutrition and obesity at the molecular level. Answering molecular-level questions regarding obesity and related diseases is a crucial first step toward curbing this national epidemic. The University of Nebraska Medical Center collaborates on the center, which aims to establish a community of nationally recognized researchers in nutrition, genetics, biochemistry, food science, immunology and computer science. The long-term goal is to become a leader in nutrient signaling and the prevention of obesity and obesity-related diseases, including non-alcoholic fatty liver disease, cardiovascular disease and Type 2 diabetes.

Awards of \$1 Million to \$4,999,999 Active awards, July 1, 2022–June 30, 2023

^{*} Indicates new in 2022–2023

Allen, Craig RII Track-2 FEC: Resilience Informatics for the Convergence of Critical Capacities to Address Regional-Scale Environmental Change \$3,953,265 NSF-EPSCoR Banerjee, Simanti Agricultural Economics Twidwell, Dirac Jr. Uden, Daniel Agronomy and Horticulture Uden, Daniel Agronomy and Horticulture	
NRT-INFEWS: Training in Theory and Application of Cross-scale Resilience in Agriculturally Dominated Social Ecological Systems \$2,998,886	
Allmand, Matthew Nebraska Manufacturing Extension Partnership	
*Automation Demo Space and Program \$1,390,837 DOC-EDA	
Manufacturing Extension Partnership Center for Nebraska \$4,478,500	
Anderson, Troy Development of an Efficacious Attractive Toxic Sugar Bait Station \$1,432,037	
Andrews, Trey Psychology/Institute for Ethnic Studies/ Rural Drug Addiction Research Center/	
Center for Brain, Biology and Behavior Allostatic Load, Response to Discrimination Stress, Discrimination Exposure Frequency, and Social Network Structure and Function \$2,525,029	

Angeletti, Pet	er Biological Sciences
	Cancer Research International Training
¢ 4 40 5 200	and Intervention Consortium (CRITIC)
\$4,425,389	NIH-NCI
Awada, Tala	Natural Resources/Agricultural Research Division ultural Intensification in the Western Corn Belt
\$1,024,929 Giannakas, Ko	
\$1,060,772	Electrical and Computer Engineering Low-Power Signal-Processing Electronics r Unattended Radiation Monitoring Sensors
Hoffman, Mich	ael Electrical and Computer Engineering
Barlow, Stever	Special Education and Communication Disorders
Somato	sensory Modulation of Salivary Gene Expression
* 0.707.500	and Oral Feeding in Preterm Infants
\$2,/97,503	NIH-NICHD
Basche, Andre	A management and Hauthaultuna
Co	ver Crop Initiative: A Collaborative Project to ce Knowledge and Utilization of Cover Crops for
Co ¹ Advan	ver Crop Initiative: A Collaborative Project to ce Knowledge and Utilization of Cover Crops for Conservation Measures in Nebraska
Con Advan \$1,049,500	ver Crop Initiative: A Collaborative Project to ce Knowledge and Utilization of Cover Crops for Conservation Measures in Nebraska
Advan \$1,049,500 Creech, Cody Easterly, Amar	ver Crop Initiative: A Collaborative Project to ce Knowledge and Utilization of Cover Crops for Conservation Measures in Nebraska
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\$1,049,500 Creech, Cody Easterly, Amar Kaiser, Michae Koehler-Cole, Maharjan, Bije Redfearn, Dar Yu, Hongfeng	ver Crop Initiative: A Collaborative Project to ce Knowledge and Utilization of Cover Crops for Conservation Measures in Nebraska
\$1,049,500 Creech, Cody Easterly, Amar Kaiser, Michae Koehler-Cole, Maharjan, Bije Redfearn, Dar	ver Crop Initiative: A Collaborative Project to ce Knowledge and Utilization of Cover Crops for Conservation Measures in Nebraska
\$1,049,500 Creech, Cody Easterly, Amar Kaiser, Michae Koehler-Cole, Maharjan, Bije Redfearn, Dar Yu, Hongfeng Becker, Donald	ver Crop Initiative: A Collaborative Project to ce Knowledge and Utilization of Cover Crops for Conservation Measures in Nebraska
\$1,049,500 Creech, Cody Easterly, Amar Kaiser, Michae Koehler-Cole, Maharjan, Bije Redfearn, Dar Yu, Hongfeng Becker, Donald \$1,214,052	ver Crop Initiative: A Collaborative Project to ce Knowledge and Utilization of Cover Crops for Conservation Measures in Nebraska
\$1,049,500 Creech, Cody Easterly, Amar Kaiser, Michae Koehler-Cole, Maharjan, Bije Redfearn, Dar Yu, Hongfeng Becker, Donald \$1,214,052	ver Crop Initiative: A Collaborative Project to ce Knowledge and Utilization of Cover Crops for Conservation Measures in Nebraska
\$1,049,500 Creech, Cody Easterly, Amar Kaiser, Michae Koehler-Cole, Maharjan, Bije Redfearn, Dar Yu, Hongfeng Becker, Donald \$1,214,052 Harris, Edward Benson, John Assessment hemionus)	ver Crop Initiative: A Collaborative Project to ce Knowledge and Utilization of Cover Crops for Conservation Measures in Nebraska

Berkowitz, David Medical Countermeasure Drug Discovery and Development \$4,678,024 DoD-Offutt Air Force Base-STRATCOM through	Centurion, Martin Nuclear and Electronic Dynamics in Ultrafast Ring-Conversion Molecular Reactions
National Strategic Research Institute Dussault, Patrick	\$2,940,000
Bevins, Rick Psychology/Rural Drug Addiction Research Center *Understanding and Mitigating Exacerbated Nicotine Use Resulting from Pavlovian Interoceptive Conditioning \$1,798,880	Checco, James Chemical Approaches to Interrogate Neuropeptide and Peptide Hormone Signaling in Disease \$2,053,927
Interoceptive Conditioning with Nicotine: Changes in Abuse Liability \$1,786,220	Clemente, Thomas Agronomy and Horticulture/ Center for Plant Science Innovation RII Track-2 FEC: Functional Analysis
Bilder, Christopher Group Testing for Infectious Disease Detection: Multiplex Assays and Back-End Screening \$2,164,953	of Nitrogen Responsive Networks in Sorghum \$1,337,633
Binek, Christian Physics and Astronomy/Nebraska Center for Materials and Nanoscience Nebraska Nanoscale Facility of NNCI	Schnable, James
\$3,500,000	Center for Advanced Bioenergy and Bioproducts Innovation \$4,827,081
Lai, Rebecca	Center for Plant Science Innovation DiLillo, David Psychology
Nebraska Center for Materials and Nanoscience Shield, Jeffrey	*RCT of a Combined MI Intervention to Address Bystander Behaviors in the Context of Alcohol Use \$2,005,024
Brozovic, Nicholas Promoting Sustainability and Resilience of Smallholder Irrigation Impacts in Sub-Saharan Africa	Promoting Prosocial Bystander Behavior in Intoxicated Men: Evaluation of RealConsent2.0 \$1,172,103NIH-NIAAA through Georgia State University
\$1,000,000 International Fund for Agricultural Development Bulling, Denise Public Policy Center	Gervais, Sarah
Nebraska Youth Suicide Prevention 2019-2024 \$3,610,121	Center for Brain, Biology and Behavior RII Track-2 FEC: Neural Networks Underlying the Integration of Knowledge and Perception \$1,172,504

Duppong Hurley, Kristin	Special Education and Communication Disorders/	Faller, Ronald	Midwest Roadside Safety Facility/ Nebraska Transportation Center
Randomized Clinical Trial of th \$1,112,775 Lambert, Matthew	emy for Child and Family Well Being ne Boys Town In-Home Program Father Flanagan's Boys' Home Special Education and Communication Disorders/ emy for Child and Family Well Being	\$2,369,485	Bridge Guardrails and Transitions, Phase III
Ru *An Innovative, Prospective N	Educational Psychology/ Nebraska Center for Research on ildren, Youth, Families and Schools/ ral Drug Addiction Research Center Model to Understand Risk and and Assault Experiences and	Rosenbaugh, Scott Sim, Chungwook Song, Chung Steelman, Joshua	Midwest Roadside Safety FacilityMidwest Roadside Safety FacilityCivil and Environmental EngineeringCivil and Environmental EngineeringCivil and Environmental EngineeringMidwest Roadside Safety Facility
Outcomes among ! \$3,851,134	Sexual Minority Men	\$1,218,785	al, Energy-Absorbing, Crash CushionTrafFix Devices IncMidwest Roadside Safety FacilityMidwest Roadside Safety Facility
Caregivers and ACEs \$1,049,996	gram on Reducing IPV among among Their Children DHHS-CDC yy/Nebraska Center for Research on nildren, Youth, Families and Schools/ ral Drug Addiction Research Center	Poc \$1,365,000	oled Fund Year 2022DOT-FHWA through Nebraska Department of TransportationMidwest Roadside Safety Facility/
Wheeler, Lorey	Nebraska Center for Research on nildren, Youth, Families and Schools/ ral Drug Addiction Research Center		Nebraska Transportation Center Midwest Roadside Safety Facility/ Nebraska Transportation Center Midwest Roadside Safety Facility/ Nebraska Transportation Center
Native Americans in th	on Sex Trafficking Among le Northern Great PlainsDOJ-NIJ ng, Learning and Teacher Education	Rosenbaugh, Scott	Midwest Roadside Safety FacilityMidwest Roadside Safety Facility/ Nebraska Transportation CenterMidwest Roadside Safety Facility/ Nebraska Transportation Center
Eichhorn, Catherine Structural Dynamics of Regulators, 81,845,838	Chemistry ory RNAs and RibonucleoproteinsNIH-NIGMS	Stolle, Cody	Midwest Roadside Safety Facility/ Nebraska Transportation Center
Indigenous Roots Tead	ing, Learning and Teacher Education ther Education ProgramED	Disorders among Per \$1,060,491	Animal Science iosis-Related HIV-Associated Cognitive rsons Who Inject Drugs in Puerto RicoNIH-NIDA through and State University Health Sciences Center
	Nebraska State Forest Service prestry Program	Chiou, Kathy	and State University Health Sciences Center

Garcia-Ruiz, Hernan	Plant Pathology/ Nebraska Center for Virology ruitment of RNA Viruses		Biochemistry Antisense Oligonucleotides and Polyanions in Liver
into RNA Sile	ncing PathwaysNIH-NIGMS	\$1,254,692	
Transitioning to a Nationwine \$3,000,000	Biological Systems Engineering Phenotyping Sites: de Plant Phenotyping Network	Evaluating the Úse of Promote Early Head Start/\$1,498,844	Child, Youth and Family Studies/ Nebraska Center for Research on Children, Youth, Families and Schools entional Mindful Educators (CHIME): of Mindfulness and Compassion to /Head Start Education Staff's Well-Being
\$2,135,860	Soybean Germplasm Jnited Soybean Board/Smith/Bucklin	Understand the Dynam Interdise \$2,326,355 Innovating Through Computate \$1,896,570	Multi-Scale Systems Modeling to nics of the Human Immune System in ciplinary Applications
*Defining, Studying, Tyrosine Residues in \$1,201,719 Dodds, Eric Chemi	Chemistry/Nebraska Center for grated Biomolecular Communication and Targeting Sulfated Cell Surface Receptors	An Integrated Resourd \$2,025,567 Hope, Debra Ronald E. McNair Postk	cale Model of the Immune System: ce for Interdisciplinary ApplicationsNIH-NIGMS Office of Graduate Studies baccalaureate Achievement ProgramED

Nitric Oxide fo \$2,027,158	Biological Systems Engineering nsor Platforms and Quantification of r In Vitro and In Vivo Systems	for Pand \$1,879,219	Nebraska Center for Research on Children, Youth, Families and Schools ps on Reading Development Strategies) demic Recovery in Nebraska ED through University of California-Irvine Nebraska Center for Research on Children, Youth, Families and Schools Nebraska Center for Research on Children, Youth, Families and Schools
	Civil and Environmental Engineering/	\$1,800,000 Bloom, Ken	ions and Upgrading the CMS ExperimentNSFPhysics and Astronomy
*Mid-Americ Transportation \$3,000,000 Kievit, Forrest Nanoparticle-Media for the Treatm \$2,216,406 Knoche, Lisa Coaching in Early Interventi Toddlers with Disabiliti \$1,599,991	Nebraska Transportation Center a Transportation Center for Safety and Equity (MATC-TSE)	Maximizing Returns Run 2 Data and Pre \$1,500,000	Physics and Astronomy for from the CMS Experiment: Analysis of eparation for the High-Luminosity LHC NSF Physics and Astronomy Physics and Astronomy Midwest Roadside Safety Facility SH-1: MASH 2016 Safety Facility SH-1: MASH 2016 Safety Facility JOT-NYDOT through Nebraska Department of Transportation Midwest Roadside Safety Facility Civil and Environmental Engineering Civil and Environmental Engineering
Sheridan, Susan	Child, Youth and Family Studies Nebraska Center for Research on Children, Youth, Families and Schools R03): Supporting the Development of	Stolle, Cody Lehn, Joyce Student	Student Affairs Support Services Program ED
Infants/Toddlers Thr Relatior \$2,498,510 Bovaird, Jim	ough an Integrated Parent-Teacher nship-Based Approach	φ2,332,02U	EU

Lewis, Elizabeth	Teaching, Learning and Teacher Education/ Center for Science, Mathematics and Computer Education	Next Generation Broadly Neutralizing Antibodies to Clear HIV-1 Reservoir \$1,526,720 NIH-NIAID through University of Maryland
M +! +l		\$1,320,720
	Needs of Diverse Students Through a	Li Vu Civil and Environmental Engineering
	of Science Teacher Leadership in Nebraska	Li, Xu Civil and Environmental Engineering
	NSF	Mitigating the Risk of Antibiotic Resistance at Critical Control Points
	Physics and Astronomy	in the Beef Cattle Manure Management Systems
	Earth and Atmospheric Sciences	\$1,200,000 USDA-NIFA
Helaing, Brandon	Social and Behavioral Sciences	Bartelt-Hunt, ShannonCivil and Environmental Engineering
11 M T:#	Research Consortium	Erickson, GalenAnimal Science
Heng-Moss, Hittany		Schmidt, Amy Animal Science/Biological Systems Engineering
Mali Ci	and Natural Resources	Wang, Bing Food Science and Technology
Matkin, Gina	Agricultural Leadership,	
M El I I	Education and Communication	Libault, Marc Agronomy and Horticulture/
McEiravy, L.J	Agricultural Leadership,	Center for Plant Science Innovation
M D 1	Education and Communication	Single-Cell Analysis of the Dynamics and Evolution of
Menon, Deepika	Teaching, Learning and Teacher Education/	Gene Expression in Legumes
	Center for Science, Mathematics	\$1,500,000
NA A1	and Computer Education	
		Lingard, Jill 4-H State Office
Searis, Minai	Earth and Atmospheric Sciences/ Center for Science, Mathematics	*YEA: Empowering the Next Generation Ag &
		Food Systems Workforce via Experiential Learning,
Smith Mandy	and Computer EducationCenter for Science, Mathematics	Engaging Diverse Youth & Enhanced PYD Programs
Silliul Wellay	and Computer Education	\$1,243,913 USDA-NIFA through Ohio State University
	and Computer Education	Xia, Yan Child, Youth and Family Studies
The second second	M II II (0 I (0)	Yoon, HyeonJin Nebraska Center for Research on
Lewis, Jim	Mathematics/Center for Science,	Children, Youth, Families and Schools
	Mathematics and Computer Education	
	Undergraduate Students for STEM	Linzell, Daniel Civil and Environmental Engineering
	pportunities in Nebraska: Networks,	*SMART Analytics for Critical Infrastructure inside a
	Learning, and Computational Thinking	Resilient Data Fabric (SMART RDF)
	NSF	\$1,250,000
	Mathematics	University of Nebraska Omaha
Carallana Amar		Detweiler, Carrick
Goodburn, Amy	Executive Vice Chancellor and	Sim, Chungwook
Darder Datas and a	Chief Academic Officer	Zhu, JinyingCivil and Environmental Engineering
Snarit, Bonita		Multilevel Analytics and Data Sharing for
Smith, wendy	Center for Science, Mathematics and Computer Education	OPerations Planning (MADS-OPP)
Cab Loop Vigt	und Computer Education Computing	\$1,392,384 DoD-Army-ERDC through
Joil, Leell-Nat	Computing	University of Nebraska at Omaha
1: 0: .1		Detweiler, Carrick Computing
	iological Sciences/Nebraska Center for Virology	Sim, ChungwookCivil and Environmental Engineering
*Lentivirus-like Partic	ele Specific Delivery of Cas12 Ribonucleoprotein	Zhu, JinyingCivil and Environmental Engineering
	Reservoir Cells in vivo for an HIV Cure	
\$1,928,770	NIH-NIAID through Temple University	

Modulating Sorghum Defer \$1,193,000	Entomology/Biochemistry wn Midrib12 (Bmr12) Gene in use Against Sugarcane Aphid
Fabrication and Verif for Laser Fus \$1,915,377	lectrical and Computer Engineering fication of Fuel Targets sion Research OE through University of Rochester d-Composite Structures aser Semi-Melting
Lubben, Bradley North Central Risk Manc	Agricultural Economics agement Education Center
\$1,328,400 Awada, Tala Basche, Andrea Blanco, Humberto Drijber, Rhae Ge, Yufeng Iqbal, Javed Kaiser, Michael Little, Andrew Mahmood, Rezaul Mieno, Taro Neale, Christopher Puntel, Laila Shi, Yeyin Snow, Daniel Suyker, Andy Thompson, Laura	Biological Systems Engineering Transformation and Enhancement USDA-ARS Natural Resources Agronomy and Horticulture Agronomy and Horticulture Biological Systems Engineering Agronomy and Horticulture Magronomy and Horticulture Biological Systems Engineering Agronomy and Horticulture Magronomy and Horticulture Matural Resources Natural Resources Magricultural Economics erty Water for Food Global Institute Biological Systems Engineering Agronomy and Horticulture Biological Systems Engineering Mebraska Water Center Natural Resources Eastern Nebraska Research and Extension Center

MacDonald, JamesAnimal ScienceEnhancing Animal Protein Through Crops and Cattle\$1,000,000Foundation for Food and Agriculture ResearchAwada, TalaNatural ResourcesBanerjee, SimantiAgricultural EconomicsBlanco, HumbertoAgronomy and HorticultureDrewnoski, MaryAnimal ScienceErickson, GalenAnimal ScienceOkalebo, JaneNatural ResourcesParsons, JayAgricultural EconomicsRedfearn, DarenAgronomy and HorticultureSuyker, AndyNatural Resources
Mahmood, Rezaul Natural Resources High Plains Regional Climate Center
\$3,247,500 DOC-NOAA
Martin, David *Robotics Lab Space and Program \$4,102,400 DOC-EDA
McQuillan, Julia Sociology Worlds of Connections: Engaging Youth with Health Research Through Network Science and Stories in Augmented Reality \$1,289,707
Meiklejohn, Colin Investigating the Special Role of Sex Chromosomes in Speciation: Discovering the Molecular Identities, Functions, and Evolutionary Histories of X-Linked Hybrid Male Sterility Genes in Drosophila \$1,298,165
Mendoza-Gorham, Joan Lincoln Upward Bound Student Affairs
\$1,612,396ED
Upward Bound Math/Science Program \$1,562,400

Namkung, Jessica Exploring Cogni	Special Education and Communication Disorders/ Nebraska Center for Research on Children, Youth, Families and Schools tive and Foundational Processes Igebra Among Students With and	Individu	Psychology/ Center for Brain, Biology and Behavior nal Brain Networks Mediating ual Differences in Valence Bias
Without Matl \$1,399,534	hematics Learning Difficulties	Learning Environmen \$3,299,957 Bovaird, James Sheridan, Susan	Nebraska Center for Research on Children, Youth, Families and Schools acy of INSIGHTS for Promoting Positive Its and Academic Achievement in Nebraska: A Replication Study ED-IES Educational Psychology/ Nebraska Center for Research on Children, Youth, Families and Schools Educational Psychology/Nebraska Center for earch on Children, Youth, Families and Schools
Mild Trav	Educational Psychology/ Center for Brain, Biology and Behavior/ Nebraska Center for Research on Children, Youth, Families and Schools gy Specialization in Concussion/ umatic Brain Injury (mTBI)	(Do: \$3,162,692 Nebrasi	Center on Children, Families and the Law ervice Training in the Eastern Service Area uglas and Sarpy Counties)
Neale, Christopher Novel Commercial Farm- Agricultural Bi	Daugherty Water for Food Global Institute Field Network to Quantify Emissions from oenergy Feedstock Production DOE-ARPA	Enhance Gene I	Biological Systems Engineering ag and Telecommunications Modeling to Delivery for Stem Cell Therapies (DP2)NIH-NIBIB
Melson, Timothy Modifiable Predictors \$3,049,571 Brock, Becca Psychol Nelson, Jennifer Resec Savage, Cary Psychol Schultz, Douglas	Psychology/ Center for Brain, Biology and Behavior s of Neural Vulnerabilities for ObesityNIH-NIDDK ogy/Center for Brain, Biology and Behavior arch/Center for Brain, Biology and Behavior ogy/Center for Brain, Biology and BehaviorCenter for Brain, Biology and Behavior and Adolescent Weight Trajectories	\$1,201,000	Natural Resources logy in the Platte River and Its Tributaries DOI-BR through Headwaters Corporation Natural Resources Natural Resources mensions of Nebraska's Fisheries DOI-FS through Nebraska Game and Parks Commission Natural Resources
\$2,564,739		Measu \$1,745,253	roxide Spin Labels for Distance rements in Biological Systems

\$3,200,000	Agronomy and Horticulture g the Conversion of Habitat in the reat Plains Ecosystem	Schoengold, Karina RII Track-2 FEC BioWRAP (Biopla Agricultural Properties): Spray-or Synchronous Decomposition ar Agrochemical Management for Enh \$1,800,000	Bioplastics with Growth and Water, Nutrient, and anced Field Crop Production brough Kansas State University arth and Atmospheric Sciences al Agricultural Products Center Agronomy and Horticulture and Environmental Engineering/
Kinetic Reprogramming of \$1,828,734	nses to Pathogenic Infection and the f Metabolism in Cancer Cell SystemNIH-NIGMS	Rudnick, Daran	
Savaiano, Mackenzie	Special Education and	mustri	ai Agriculturui i Toudets Center
Visual II \$1,243,542	Communication Disorders Ining for Early Intervention and Inpairment (IT-EIVI) Intervention and Inpairment (IT-EIVI) Intervention Disorders Intervention Disorder	*Systematic Efficacy Replication St Consultation in Eleme \$1,133,388 ED-IES through U Witte, Amanda Ne Childr Efficacy of Virtual Professio Rural Schools to Enhance Teache Students with Behavio \$3,800,000 Wheeler, Lorey Ne Childr Witte, Amanda Ne	ntary Schools niversity of Wisconsin-Madison braska Center for Research on en, Youth, Families and Schools nal Development in r-Parent Partnerships for ral Challenges
Supporting School Th Implementation of a State \$1,281,919	reat Assessment Teams Via the ewide Anonymous Reporting System	Early Learning Contexts in Ruro \$4,913,268	Ebraska Center for Research on
Schnable, James TGCM: (T)rait, (G)ene, and (C	Agronomy and Horticulture/ Center for Plant Science Innovation Prop Growth (M)odel-Directed Targeted Coterization in Sorghum	B Koziol, Natalie Ne	n, Youth, Families and Schools/ uffett Early Childhood Institute braska Center for Research on en, Youth, Families and Schools
\$2,675,039		Early Learning Net \$2,064,983	ED

Smith, Adam	Nebraska State Forest Service	Soh, Leen-Kiat	Computing/Center for Science,
	orest Restoration Partnership	Juli, Leeli-Kiat	Mathematics and Computer Education
	USDA-NRCS	Anticipating Soci	ial Unrest Using Integrated Model- and
\$4,500,000	USDA-NICS		paches: The Impact of Socio-Demographic
Cartala Wassala	Mathamatica / Ocutan & co Ociona		ental Factors in Post-Colonial Nations
Smith, Wendy	Mathematics/Center for Science,		ational Geospatial Intelligence Agency through
411.	Mathematics and Computer Education	\$ 1,000,000 DOD-NO	Citadel University
	ked Improvement Communities to	Haves Michael	Natural Resources
	nsformation for Secondary Mathematics		Computing
	ration (NIC-Transform Scale Up)	Werum Reging	Sociology
	NSF	vveram, regina	gy
Augustyn, Linasay	Center for Science, Mathematics	Adapt Impl	ement and Research at Nebraska:
French Berekel	and Computer EducationCenter for Science, Mathematics		entation Study of a Researcher-Practitioner
runk, kachei			or K-8 Computer Science Education
Klimana Daham	and Computer EducationCenter for Science, Mathematics		NSF
Klimes, Debra	and Computer Education	Nugent, Gwen	Nebraska Center for Research on
La: Vuanna			Children, Youth, Families and Schools
Lai, ivoime	Mathematics and Computer Education	Smith, Wendy	
	Mathematics and Computer Education		and Computer Education
Achieving	Critical Transformations in	Trainin, Guy	Teaching, Learning and Teacher Education
	grams in Mathematics (ACTUP Math)	, ,	3, 3
	NSF	Sonsthagen, Sarah	Natural Resources
Rennett Amy	Mathematics/Center for Science,		production, Harvest, Timing of Season,
beililett, / tilly	Mathematics and Computer Education		patial Ecology of Wild Turkeys in Nebraska
Funk Rachel	Center for Science, Mathematics and		Nebraska Game and Parks Commission
ram, namer	Computer Education		Natural Resources
Wonch Hill, Trish	Social and Behavioral Science		Natural Resources
,	Research Consortium	Transita, irraini	
		Stolle, Cody	Midwest Roadside Safety Facility
Practices and F	Research on Student Pathways in	*Safe and Efficient Fr	ntry Control Points at Military Installations:
	from Community College and	Jule and Emclent En	Phase I
Transfer Stude	ents in STEM (PROSPECT S-STEM)	\$3,625,000	DoD-Army-ERDC
\$1,421,247	NSF	Faller Ronald	Midwest Roadside Safety Facility
Duncan, Brittany	Computing		Civil and Environmental Engineering/
Funk, Rachel	Center for Science, Mathematics and	0.00	Midwest Roadside Safety Facility
	Computer Education		
Searls, Mindi	Earth and Atmospheric Sciences/		
	Center for Science, Mathematics and		
	Computer Education		
Soh, Leen-Kiat	Computing		

Storz, Jay *Genomic and Physiologic		USDA Support of the U.S. Drought Monitor and Hub Activities with the National Drought Mitigation Center
Hypoxia Adaptation in H \$1,920,229		for the Period of 2020 to 2023 \$2,375,000
RII Track-2 FEC: Using Natural Var and Lead (UNVEIL): A Collabora Advance Genome-to-Phenome	tive Research Network to	Fuchs, Brian
\$1,856,000 NSF Meiklejohn, Colin Sontooth, Kristi	through University of Montana Biological Sciences	Smith, Kelly
Mutational Pleiotropy, E Adaptive Evolution of He	Epistasis, and the	Providing Drought Information Services for the Nation: The National Drought Mitigation Center \$1,600,000DOC-NOAA
\$1,437,536	NIH-NHLBI	Bathke, DeborahEarth and Atmospheric Sciences Fuchs, BrianNatural Resources Haigh, TonyaNatural Resources
Sun, Xinghui Role of IncRNA Meg3 in Endothelial Senescence an		Knutson, Cody Natural Resources Smith, Kelly Natural Resources Tadesse, Tsegaye Natural Resources
\$1,955,473	Biochemistry	Thomas, Amanda Teaching, Learning and Teacher Education/
	rical and Computer Engineering	Nebraska Center for Research on Children, Youth, Families and Schools Nebraska STEM: Supporting Elementary Rural Teacher Leadership
Exploring and Embracir in Atomically Thin Eng \$1,238,000	ergy Materials	\$1,499,493NSF Homp, MichelleCenter for Science, Mathematics and
Sutter, Eli Mech		Computer Education/ Nebraska Center for Research on Children, Youth, Families and Schools
Svoboda, Mark *USDA Support for Enhancements to Engaging the USDA Clima		Nugent, Gwen
\$1,325,000	USDA-OCE Natural Resources	Nebraska Center for Research on Children, Youth, Families and Schools
Haigh, Tonya Knutson, Cody	Natural Resources	Smith, Wendy Center for Science, Mathematics and Computer Education/ Nebraska Center for Research on
Mieno, Taro	Natural Resources	Children, Youth, Families and Schools Soh, Leen-KiatComputing/ Nebraska Center for Research on
Tadesse, Tsegaye		Children, Youth, Families and Schools Thomas, Julie
		Children, Youth, Families and Schools Trainin, GuyTeaching, Learning and Teacher Education/ Nebraska Center for Research on
		Children, Youth, Families and Schools

Thomas, Anne Special Education and Communication Disorders *Mid-Plains Professional Upgrade Partnership Speech-Language Pathology, Audiology, and Deaf Education (MPUP-SPADE)	Torquati, Julia Child, Youth and Family Studies/ Nebraska Center for Research on Children, Youth, Families and Schools
\$1,174,731ED	*Responsive Equitable System for Preparing Early
Brennan, Katie Special Education and Communication Disorders	Childhood Teachers (RESPECT) across Nebraska
Brennan, Marc Special Education and Communication Disorders	\$2,159,125 Buffett Early Childhood Fund
Pritchett, KellySpecial Education and Communication Disorders	Buchheister, Kelley Child, Youth and Family Studies/
Weissling, Kristy Special Education and Communication Disorders	Nebraska Center for Research on
g,g	Children, Youth, Families and Schools
Mid-Plains Professional Upgrade Partnership: Interdisciplinary	Corr Kiewra, Christine Child, Youth and Family Studies/
Preparation in Deaf Education and Speech-Language Pathology	Nebraska Center for Research on
\$1,052,376ED	Children, Youth, Families and Schools
Weissling, KristySpecial Education and Communication Disorders	Engen-Wedin, Nancy Teaching, Learning and Teacher Education/
Troisoning) tales y troisonal Education and Communication Disortation	Nebraska Center for Research on
Thompson, Laura Eastern Nebraska Research and Extension Center	Children, Youth, Families and Schools
Promoting Adoption of Innovative Precision Ag Nitrogen	Hong, Soo-Young Child, Youth and Family Studies/
Management Technologies Through the Nebraska On-Farm	Nebraska Center for Research on
Research Network for Improved Conservation Stewardship	Children, Youth, Families and Schools
\$1,267,747USDA-NRCS	Knoche, Lisa Nebraska Center for Research on
DeBoer, Karen Panhandle Research and Extension Center	Children, Youth, Families and Schools
Glewen, KeithSoutheast Extension District	Morales, AmandaTeaching, Learning and Teacher Education/
Krienke, Brian Agronomy and Horticulture	Nebraska Center for Research on
Lesoing, GarySoutheast Extension District	Children, Youth, Families and Schools
Luck, Joe	Schachter, Rachel
Maharjan, Bijesh Panhandle Research and Extension Center	Nebraska Center for Research on
Mamo, Mitiku Northeast Extension District	Children, Youth, Families and Schools
Mieno, Taro	
Milander, Jeremy	Trainin, Guy Teaching, Learning and Teacher Education/
Mueller, Nathan Metro Extension District	Nebraska Center for Research on
Nygren, Aaron	Children, Youth, Families and Schools
Puntel, Laila	Art TEAMS: Nurturing Educators Who Integrate Art,
Rees, JenniferSoutheast Extension District	Core Subjects, and Culturally Responsive Teaching to
Sindelar, MichaelSoutheast Extension District	Support Students in Becoming Makers of Change
Sivits, Sarah West Central Research and Extension Center	\$1,942,920ED
Thomas, John Panhandle Research and Extension Center	D'Adamo, Kimberley Teaching, Learning and Teacher Education/
Whitney, Todd West Central Research and Extension Center	Nebraska Center for Research on
Whiteley, load	Children, Youth, Families and Schools
Taylology Tyayt Alayandya Chasial Education and	Yoon, HyeonJinNebraska Center for Research on
Torkelson-Trout, Alexandra Special Education and	Children, Youth, Families and Schools
Communication Disorders/	Crimaren, Toutil, Fullimes and Schools
Academy for Child and Family Well Being	Turiducall Diseas In Assessment and Hauticulture
A Missing Link to a Better Tomorrow: Developing Health Literacy in	Twidwell, Dirac Jr. Agronomy and Horticulture
Transition-Age Youth with High Incidence Disabilities	Juniper Invasions and Landscape Intervention Potential:
\$1,499,994	A Statewide Assessment
Duppong Hurley, Kristin	\$1,361,472
Communication Disorders/	Nebraska Game and Parks Commission
Academy for Child and Family Well Being	Allen, Craig Natural Resources
Lambert, MatthewSpecial Education and	
Communication Disorders/	
Academy for Child and Family Well Being	

*Street Experiences, Affect, and Models for the Development o Prevent Drug Use among Yo	Cural Drug Addiction Research Center Coping: Harnessing Computational f a Cellphone-Based Intervention to buth Experiencing Homelessness	Ċ	Biological Sciences/Nebraska Center for Virology cturing of a Universal Flu Vaccine Using TMV-Conjugated Centralized Antigens
DiLillo, David Psychology/F	Rural Drug Addiction Research Center Rural Drug Addiction Research Center	Wiebe, Matthew	Veterinary Medicine and Biomedical Sciences/ Nebraska Center for Virology Subversion of Cellular Mitotic and
Umstadter, Donald	Physics and Astronomy erNetUS	Ant	iviral Signaling by Poxviral KinasesNIH-NIAID
	DOE		
Van Etten, James	Plant Pathology/ Nebraska Center for Virology		Mechanical & Materials Engineering ta Industrial Assessment Center (NIAC)
An Experimental and	EC: G2P in VOM: Analytical Framework for nections in Viruses of Microbes	Dvorak, Bruce	Civil and Environmental EngineeringMechanical & Materials Engineering
DeLong, John	. NSF through University of Delaware Biological Sciences/ Nebraska Center for Virology	Wilson, Mark Time-Resol	Biochemistry/Nebraska Center for Redox Biology Ived X-ray Crystallography of Dynamics in Cysteine-Dependent Enzymes
Dunigan, David	Plant Pathology/ Nebraska Center for Virology	\$1,183,976	
	Biochemistry tures and Functions of eractions at Tight Junctions	Associated with	Agronomy and Horticulture and Molecular Characterization of Genes Vegetative Nitrogen Use Efficiency in Sorghum
\$1,973,388	NIH-NIGMS	Clemente, Thomas	
Vuran, Mehmet *CNS Core: N	Computing ledium: Field-Nets:	Schnable, James	Agronomy and Horticulture
Field-to-Edge Connectivity Sensing in Next-Generation \$1,000,000	/ for Joint Communication and Intelligent Agricultural NetworksNSF Electrical and Computer Engineering Biological Systems Engineering	RNA Dy	t-Generation Biophysical Models for ynamics, Ligand Binding, and CatalysisNIH-NIGMS
Liu, Qiang		Yin, Yanbin Carbohydrate En	Food Science and Technology/ Nebraska Food for Health Center azyme Gene Clusters in Human Gut Microbiome
Discogenio	Biological Systems Engineering and Inflammatory Stimuli in Low Back Pain	Cui, Juan	
		Yu, Bin Understand th	Biological Sciences/ Center for Plant Science Innovation ne Function of the MOS4-Associated Complex
		\$1,570,405	in MicroRNA BiogenesisNIH-NIGMS

Yu, Jiujiu	Nutrition and Health Sciences/ Nebraska Center for the		
Role of Chive-derived Exosor Suppressing Inflamm \$1,734,810	ation in Obesity		
Roston, RebeccaBioch	emistry/Nebraska Center for the Prevention of Obesity Diseases		
Zempleni, Janos	Nutrition and Health Sciences/ Nebraska Center for the Prevention of Obesity Diseases		
Molecular Signatures of New Bioa Cows Milk Mi			
\$1,785,715			
Zhang, Limei Structures and Mechanisms of Iron-Sulfur Proteins in Redox Control and Stress Response			
\$2,046,616			
Fundamental Studies on Function Using Femtosecond Lase to Enhanced Heat Tran \$1,660,889	ers with Applications asfer; Novel PowerDoD-ONR		
Gogos, George Med lanno, Natale Elec Shield, Jeffrey Med	trical and Computer Engineering		

Awards of \$250,000 to \$999,999

Active awards, July 1, 2022–June 30, 2023

^{*} Indicates new in 2022–2023

Adamowicz, Michael	College of Agricultural Sciences and Natural Resources
Touched Obje	the Human Virome to ects and Hair Shafts
Clarke, Jennifer	DOJ-NIJFood Science and TechnologyAnimal Science
Past Achievements, Lesso	Physics and Astronomy hysics Version 3: hs Learnt and the Way Forward https://www.nsf
Toxicity of Emerging 2D N Embedded onto Nanocomposi \$254,833	Civil and Environmental Engineering Transformation, Interaction and anomaterials Free-Standing and te Membranes for PFAS DegradationNSF hemical and Biomolecular Engineering and Mechanisms of Li-lon Battery
Cathodes from Ab Initio	Interfacial Reaction DynamicsNSF
\$403,020	Natural Resources cultural Socio-Environmental SystemsNSFNatural Resources
\$492,704	Durham School of Architectural Engineering and Construction ed AI for SWaP-C @ Edge Intelligence Advanced Research ojects Activity through General Electric
Computing Units for V	l Neural Integrated Sensing and Vearable Device Applications NSF

REU Site: Community-Engaged \$402,120	sychology/Institute for Ethnic Studies Training for Advancing Health Equity		
*AASHTO Guidelines for Imple Breakaway Poles, and Wo \$500,000	Midwest Roadside Safety Facility ementation of MASH Sign Supports, ork Zone Traffic Control DevicesDOT-FHWA through National Academy of Sciences-NCHRP Midwest Roadside Safety Facility		
Banerjee, Simanti *Improving the Retention and Uptake of Tillable and Non-Tillable Grazing Land in the Conservation Reserve Program: A Qualitative and Quantitative Analysis of Economic and Environmental Factors \$499,868			
Merging Bound S	Electrical and Computer Engineering -Chip Microlaser Enabled by states in the Continuum		
Barletta, Raul Veterinary Medicine and Biomedical Sciences Development and Testing of Mycobacterium avium subsp. paratuberculosis DIVA Vaccines in Ruminants \$500,000			
\$323,117	Psychology thetic Countermeasures DoD-DTRA through National Strategic Research Institute Psychology		

Bartelt-Hunt, Shannon Civil and Environmental Engineering CAMRADES Connecting AntiMicrobial Resistance, Agricultural Decisions, and Environmental Systems: A Tool for Mitigating AMR and Assessing Risk to Human Health in Agro-Ecosystems \$309,037	Becker, Donald Nebraska Center for Redox Biology/ Center for Plant Science Innovation Direct Removal of Groundwater Nitrate Coupling Water Treatment and Algae Growth
Schmidt, Amy Animal Science/Biological Systems Engineering Wang, Bing Food Science and Technology	\$456,962Nebraska Environmental Trust Allen, JamesBiochemistry Demirel, YasarChemical and Biomolecular Engineering
Influence of Agrochemical Mixtures	
on Treatment Wetland Ecosystems Services \$499,999	Investigating the Proline Cycle as a Potential Cancer Therapy Target \$291,983NIH-NIGMS through University of Missouri-Columbia
	REU Site: Training in Redox Biology
REU Site: Sustainability of Horizontal Civil Networks in Rural Areas	\$298,186
\$445,241NSF Eun, JongwanCivil and Environmental Engineering	Adamec, Jiri Biochemistry/Nebraska Center for Redox Biology/ Center for Plant Science Innovation
Jones, Elizabeth Nebraska Transportation Center	Du, Liangcheng Chemistry/Nebraska Center for Redox Biology/
Kim, Seunghee Civil and Environmental Engineering	Center for Plant Science Innovation
Li, XuCivil and Environmental Engineering	Franco Cruz, Rodrigo Veterinary Medicine and Biomedical Sciences/
Li, YusongCivil and Environmental Engineering	Nebraska Center for Redox Biology/
Linzell, Daniel Civil and Environmental Engineering	Center for Plant Science Innovation
Sim, ChungwookCivil and Environmental Engineering	Khalimonchuk, OlehBiochemistry/
Steelman, Joshua Nebraska Transportation Center	Nebraska Center for Redox Biology/
Wittich, ChristineCivil and Environmental Engineering	Center for Plant Science Innovation
Wood, RichardCivil and Environmental Engineering	Lee, Jaekwon Biochemistry/Nebraska Center for Redox Biology/
	Center for Plant Science Innovation
Basche, Andrea Agronomy and Horticulture	Ro, Seung-Hyun Biochemistry/Nebraska Center for Redox Biology/
*Catalyzing a Billion Dollar Cover Crop Seed Industry	Center for Plant Science Innovation
\$512,000	Wilson, Mark Biochemistry/Nebraska Center for Redox Biology/ Center for Plant Science Innovation
•	Zhang, Limei Biochemistry/
Enhancing the Sustainability of U.S. Cropping Systems Through Cover Crops and an Innovative Information and Technology Network	Center for Plant Science Innovation/ Nebraska Center for Redox Biology/
\$370,607USDA-NIFA through North Carolina State University	Belashchenko, Kirill Physics and Astronomy/Nebraska Center
McMechan, Justin Entomology Wortman, Samuel	for Materials and Nanoscience First-Principles Studies of Spin-Orbit Torque and
	Magnetoresistance in Magnetic Nanostructures \$363,787NSF
Bashford, Gregory REU Site: Undergraduate Research Opportunities in	
Biomedical Devices at the University of Nebraska-Lincoln	Benson, John Natural Resources
\$414,979NSF Markovicka, EricMechanical & Materials Engineering	Elk Resource Selection, Movement, Survival, and Population Dynamics in Western Nebraska
B. C. H. St. C.	\$831,942
Batelaan, Herman Physics and Astronomy	Nebraska Game and Parks Commission
Coherent Electron Control	

\$588,032......NSF

Bevins, Rick	Psychology	Enhancing the Health of Low C, Sandy and Sloping Soil with Biochar and Cover Crops
Extracellular Vesicles, M	eth Relapse and Sex Differences	\$499,999USDA-NIFA
\$470,593	NIH-NIDA through University of Nebraska Medical Center	Creech, Cody Panhandle Research and Extension Center
'	University of Nebraska Medical Center	Drijber, Rhae
B. 1. 11 1 1 1 1	F 10: 17 1 1	Easterly, Amanda Agronomy and Horticulture
Bianchini Huebner, Andreia	Food Science and Technology	Jasa, Paul
Postharvest L	curity Through Reduction of Loss and Food Waste	Ruis, Sabrina
\$935,827	JSAID through Kansas State University	Assessing Innovative Strategies to Maximize Cover Crop Yields for Biofuel Across Precipitation Gradient
Bielenberg, Robert	Midwest Roadside Safety Facility	\$500,000
	zed MASH TL-4 Kansas Corral Rail	Creech, Cody Panhandle Research and Extension Center
	outh Dakota and Virginia)	Francis, Charles
	DÖT-KŚ DOT through	Koehler-Cole, Katja Agronomy and Horticulture
	ebraska Department of Transportation	Parsons, Jay
	Midwest Roadside Safety Facility	Ruis, Sabrina
Holloway, James	Midwest Roadside Safety Facility	Yang, Haishun
Lechtenberg, Karla	Midwest Roadside Safety Facility	Tang, Halonani
Rosenbaugh, Scott	Midwest Roadside Safety Facility	Bobaru, Florin Mechanical & Materials Engineering
		Corrosion-Induced Fracture and Failure: Transforming Computations
Binek, Christian	Physics and Astronomy/	from Micrometers and Minutes to Meters and Years
Nebraska	Center for Materials and Nanoscience	\$748,375NSF
	al Access in a Cryogenic Scanning	Larios, Adam
	Quantum Sensing Capabilities	Editos, / iddiff.
\$358,171	NSF	Bradley, Justin Computing
	Physics and Astronomy/ Center for Materials and Nanoscience	*CPS: Medium: Dig, Sip, Breathe: Automated Monitoring of
	.Mechanical & Materials Engineering/	Carbon and Water Cycles in Agriculture
	Center for Materials and Nanoscience	\$990,697USDA-NIFA
Xu, Xiaoshan	Physics and Astronomy/	Detweiler, Carrick
Nebraska	Center for Materials and Nanoscience	Franz, Trenton
		Muñoz-Arriola, Francisco Biological Systems Engineering
Magnetoelectric	es and Spinorbitronics in	*REU Site: Undergraduate Research Opportunities in
Topological Heteros	tructures and Superlattices	Unmanned Systems Foundations and Application
	DoD-ONR through	\$404,759
	University of California, Los Angeles	Detweiler, Carrick Computing
		Duncan, Brittany Computing
Blanco, Humberto		Nie, Shuai
in Soils Vulnerable t	Enhance Soil Ecosystem Services to Environmental Pressures	Tran, Dung Hoang
	USDA-NIFA	Brennan, Marc Special Education and Communication Disorders
	Agricultural Economics	Restoration of Spectral Resolution with Hearing-Aid Amplification
	Agronomy and Horticulture	\$448,983NIH-NIDCD
	Agronomy and Horticulture	Ţ
Ihompson, Laura	Eastern Nebraska Research	
V II. I	and Extension Center	
rang, Haishun	Agronomy and Horticulture	

Brewer, Gary A Multi-Tactic Push-Pull Strategy for Controlling Stable Flies on Pasture Cattle in Nebraska and Florida \$325,000. USDA-NIFA Boxler, David West Central Research and Extension Center Hanford, Kathryn Statistics Stockton, Matt West Central Research and Extension Center			
Brown-Brandl, Tami FACT-CIN: A Coordinated Innovation Network for Advancing Computer Vision in Precision Livestock Farming \$286,058USDA-NIFA through Michigan State University			
Assessing the Effects of Farrowing Crate Design and Mothering Phenotype on Pre-Weaning Piglet Survival \$439,110 National Pork Board Keshwani, Deepak Biological Systems Engineering Shi, Yeyin Biological Systems Engineering Stowell, Rick Biological Systems Engineering			
Buan, Nicole Biochemistry Identifying Coupled Metabolic Processes in Methanogenic Archaea \$598,983NSF			
Bulling, Denise Prevention and Promotion Program \$785,956			
Cahoon, Edgar Biochemistry/ Center for Plant Science Innovation/ Nebraska Food for Health Center			
Expanding Opportunities in Agricultural Sciences: Crop-to-Food Innovation			
\$742,668			

Clemente, Thomas	Agronomy and Horticulture/ Center for Plant Science Innovation/		
Danao, Mary-Grace	Nebraska Food for Health Center Food Science and Technology/ Center for Plant Science Innovation/		
Frels, Katherine	Nebraska Food for Health Center Agronomy and Horticulture/ Center for Plant Science Innovation/ Nebraska Food for Health Center		
Holding, David	Agronomy and Horticulture/ Center for Plant Science Innovation/ Nebraska Food for Health Center		
Ramer-Tait, Amanda	Food Science and Technology/ Center for Plant Science Innovation/ Nebraska Food for Health Center		
Rose, Devin	Agronomy and Horticulture/ Food Science and Technology/		
Schnable, James	Center for Plant Science Innovation/ Nebraska Food for Health Center Agronomy and Horticulture/		
	Center for Plant Science Innovation/ Nebraska Food for Health Center Biological Systems Engineering/ dustrial Agricultural Products Center/		
	Center for Plant Science Innovation/ Nebraska Food for Health Center Food Science and Technology/ Center for Plant Science Innovation/ Nebraska Food for Health Center		
High-Value Oilseed Design and Optimization: Camelina- and Soybean-Based Astaxanthin Production \$450,000			
High-throughput Mutagenesis in <i>Arabidopsis</i> \$357,763			
\$750,000 Markham, Jonathan	Metabolic and Regulatory Network		

Cerutti, Heriberto	Biological Sciences/ Center for Plant Science Innovation	Christensen, Alan Double-S
	n-Mediated Silencing in <i>Chlamydomonas</i> NSF	\$820,000
\$618,472	ritance in the CrenarchaeotaNSF . Chemical and Biomolecular EngineeringBiochemistry Development of Bioenergy Systems	Ciftci, Ozan An Innovative G Multifunction (\$481,960 Ciftci, Deniz Hutkins, Robert
Mechanisms of Small R	NA-Mediated Translation Repression Chlamydomonas NSF	An Innova of Curcur \$468,000 Meneses Gonzalez Moreau, Regis
Chan, Hau	Computing	Rose, Devin
*Collaborat Fair Sequential	ive Research: NSF-CSIRO: I Collective Decision-MakingNSF	Developme a High-valu fron
	Food Science and Technology pment of Food Safety Plans Through ventive Controls School Initiative	\$489,781 Demirel, Yasar
\$299,559		Ciobanu, Daniel *Unders \$635,000 Fernando, Samodh Kachman, Stephen
Chizinski, Christopher	Natural Resources	Loy, Dustin
Motivations, Expenditi	Preferences, Attitudes, and ures of Kansas Anglers Kansas Department of Wildlife and Parks	De Viro \$500,000
Participation to Incre	Hunting and Conservation Organization ease Effectiveness of R3 Programs Nebraska Game and Parks Commission	Vu, Hiep
	ons of Wildlife Survey Analysis DOI-FWS through Nebraska Game and Parks Commission	
\$288,371	on of the Nebraska Outdoor Enthusiast DOI-FWS through Nebraska Game and Parks Commission	
rope, Kevin	Natural Resources	

Christensen, Alan Double-Strand Break Repair in Products and P	Biological Sciences n Plant Mitochondria: roteins
\$820,000	
Ciftci, Ozan An Innovative Green Platform Technom Multifunctional Hollow Solid Lipid \$481,960	Micro- and NanoparticlesUSDA-NIFA .Food Science and Technology
An Innovative Approach to Incoof Curcumin Using Nanoporol \$468,000	us Starch BioaerogelsUSDA-NIFA .Food Science and Technology Nutrition and Health Sciences
Development of an Integrated G a High-value, Stable and Bioava from Tomato Processing \$489,781	ilable Lycopene Product Industry Waste USDA-NIFA
*Understanding Host X Pathe Swine Infectious \$635,000	Diseases
\$500,000Vu, Hiep	USDA-NIFA

Clark, Carrie	Educational Psychology/ Nebraska Center for Research on Children, Youth, Families and Schools/ Center for Brain, Biology and Behavior	Seasonal Responses in L	Earth and Atmospheric Sciences into Cretaceous Diatom Paleobiology: aminated Sediments and Survivability and retaceous-Paleogene Extinction Event
Early Childhood	ophysiological Mechanisms of Teachers' Stress Resilience and		NSF
\$412,863	or Preschoolers' Self-RegulationNIH-NICHD Center for Brain, Biology and Behavior/ Nebraska Center for Research on Children, Youth, Families and Schools	\$491,726	Natural Resources g Capacity to Improve Water QualityNebraska Environmental TrustNatural Resources
Hatton-Bowers, Holly	Child, Youth and Family Studies/ Nebraska Center for Research on	Couch, Brian	Natural Resources Biological Sciences/
Parra, Gilbert	Children, Youth, Families and Schools/ Center for Brain, Biology and Behavior Child, Youth and Family Studies/ Nebraska Center for Research on Children, Youth, Families and Schools/ Center for Brain, Biology and Behavior	From Community to Pro Resources Facilit Change Princi	Nebraska Center for Virology actice: Evaluating How Open Educational tate Implementation of Vision and iples Across Diverse Institutions
Tyler, Kimberly So	ciology/Nebraska Center for Research on Children, Youth, Families and Schools/ Center for Brain, Biology and Behavior	Identifying Acces	t with Online Formative Assessments: ss and Barriers to Resource Use at and Four-Year Institutions
	Nebraska Center for Research on Children, Youth, Families and Schools/ Center for Brain, Biology and Behavior	\$250,724 Brazeal, Kati	
Clarke, Jennifer	Food Science and Technology/ Agricultural Research Division	Mapping Change i	in Higher Education Social Networks
A Strategic	Iltural Producers Data Cooperative: Framework for Innovation USDA-NIFA		and STEM Reforms
Calvert, Scout Franz, Trenton Luck, Joe Spangler, Matthew Thompson, Laura		Wheat Stem Sawfly Infe S \$250,000USDA- Bradshaw, Jeffrey	Agronomy and Horticulture Semi-Solid Stemmed Wheat Varieties and estation on Wheat Residue Longevity and Soil Water Content NIFA through University of Minnesota-SAREEntomology
A Strategic \$500,000 Franz, Trenton Lorang, Liz Luck, Joe	Producer Data Cooperative: Framework for Innovation	Easterly, Amanda Frels, Katherine Maharjan, Bijesh	
Thompson, Laura	Animal ScienceEastern Nebraska Research and Extension CenterComputing		

Cressler, Clay	Biological Sciences	Dauer, Joseph	Natural Resources
*Ecology of Exp	ulsion:		in Undergraduate Biology Courses:
Within-Host Dynamics Driving			aches and Student Outcomes
\$308,161	N3F		NSF
Habitat and Coinfection as Driv	ors of Hotorogonoity in	Couch, Brian	Biological Sciences
Cross-Scale Wildlife Infection		FCR DRER DCL Descr	ibing the Neurobehavioral Effects of
\$348,171 NSF t			in Undergraduate Life Sciences Education
+,			NSF
Cui, Bai Mech	anical & Materials Engineering		Educational Psychology
Additively Manufactured G		,	,
Transition Joints for Dissimilar	Metal Weldments in	de Guzman, Maria	Child, Youth and Family Studies/
Advanced Ultra-Supercri			Nebraska Center for Research on
\$300,000 DOE thi			Children, Youth, Families and Schools
, ,	3	Youth Civic Engagement:	Using Simulations and Design Thinking
High-throughput Computational	Guided Development of		
Refractory Complex Concentrated	Alloys-based Composite		Child, Youth and Family Studies
\$510,626 DOE-ARPA-E thi	ough West Virginia University	Kim, Surin Tex	ctiles, Merchandising and Fashion Design/
			Nebraska Center for Research on
Understanding the Mechanisms of			Children, Youth, Families and Schools
Process for Joining Oxide-Dispers		Larson, Andy	4-H State Office/
\$307,825			Nebraska Center for Research on
Zhou, Qin Mecho	anical & Materials Engineering	D C'II (Children, Youth, Families and Schools
	4	Parra, Gilbert	Child, Youth and Family Studies/ Nebraska Center for Research on
Cupp, Andrea	Animal Science		Children, Youth, Families and Schools
Metabolic Regulators of Corp			Cililaten, Toutil, Families and Schools
\$388,210	NIH-NICHD through	Del euro John	Dialogical Calamana
	y of Nebraska Medical Center	DeLong, John	Biological Sciences
Wood, Jennifer	Animai Science		ing the Effect of Predation on n in Response to Climate Change
Davier Janes	Natural Resources		NSF
Dauer, Jenny			Biological Sciences
Supporting Students' Criti Evidence in Socioscientific		Wientestii, Kiloti	
\$299,983		*Predicting Eco-Ev	olutionary Consequences of an
Moon, Alena			a Key Herbivore in Temperate Reefs
Widon, Allend	Chombay	\$266,000	.U.SIsrael Binational Science Foundation
Bridging Science Education and Ps	vchology Perspectives to		
Support Science Literacy The			ling the Consequences of
\$349,836			ion in Ecological Communities
		\$450,000	James S. McDonnell Foundation
		Decoulaiore Amy Vete	orinary Madiaina and Diamodical Caianasa
			erinary Medicine and Biomedical Sciences the Face of Climate Change through the
			of In Utero Heat Stress
		\$650,000	USDA-NIFA
			Animal Science

Detweiler, Carrick Real-time Weather Awarene	Computing	Downs, Melanie *Food Pr	Food Science and Technology oteomics Research and
Enhanced Safety Assurance in	uTM		ass Spectrometry Platform
\$805,406NASA through Okl			USDA-NIFA
Houston, Adam Earth and		Baumert, Joseph	Food Science and Technology
,			Food Science and Technology
NRI: INT: Raining Drones: Mid-Air F	Release and	Johnson, Philip	Food Science and Technology
Recovery of Atmospheric Sensing	Systems		Food Science and Technology
\$643,600		Schnable, James	Agronomy and Horticulture
Houston, Adam Earth and	d Atmospheric Sciences		• •
		Duncan, Brittany	Computing
Diefes-Dux, Heidi Biologic	al Systems Engineering	*NRI: Collaborativ	e Research: Adaptive Multi-Robot
Research: Evidencing Epidemic Change in En			Investigating Changing Ecosystem
Shedding Light on Instructor Adap			NSF
Course Complexity for Sustained			Computing
\$419,039	NSF		Computing
		NRI: INT: Leveraging Envir	onmental Monitoring UAS in Rainforests
Dixon, Ross Earth and	l Atmospheric Sciences		NSF
*The Impact of Surface Fluxes on Rain-On- U.S. and Improving Their Representation in	Snow Events in the		Computing
\$334,621		REU Site: Undergro	aduate Research Opportunities in
Roy, TirthankarCivil and Env	ironmental Engineering		ns Foundations and Applications
Roy, Til tilalikai	nonnental Engineering	\$400,649	NSF
Doht, Mitchell	Nebraska Extension/		Computing
Nebraska Local Technic Nebraska Local Technical Assistan	cal Assistance Program	Detweiler, Carrick	Computing
\$818,039		Dzenis, Yuris	Mechanical & Materials Engineering
	ment of Transportation	Ultratough Li	ghtweight High-Temperature for Aerospace Composites
B 1 11 11			DoD-AFOSR
Douglass, Matthew	Natural Resources	, ,	
Long-Term Perspectives on Water Security,	Food Security, and	Edwards, Katie	Educational Psychology/
Land Management Among Daasanach		Lunarus, Ratio	Nebraska Center for Research on
East Turkana, Northern Ke			Children, Youth, Families and Schools/
\$748,870			Rural Drug Addiction Research Center
Powell, Larkin		Development and Pilot Eval	uation of an Online Intervention to Prevent
QI, TI	Natural Resources		blem Drinking in Sexual Minority Youth
Danilar Data	N		NIH-NIAAA
	Physics and Astronomy/		Nebraska Center for Research on
Nebraska Center for Mat		, ,	Children, Youth, Families and Schools/
Heteromolecular Interface Des			Rural Drug Addiction Research Center
Better Multiferroic Molecular Sp			-
\$563,690	Not		Stigma in Partner Violence
		\$413,900	NSF

Elkins, Lynne	Earth and Atmospheric Sciences	Fabrikant, Ilya	Physics and Astronomy
	rusion Tectonics, Rifting, and		and Positronium Collisions
	enosphere Coupling Models for the 5 Diffuse Igneous Province, Vietnam	\$277,644	NSF
	NSF	Electron and Positronium	Collisions with Molecules
	Earth and Atmospheric Sciences		NSF
	nt-scale Compositional Control over	Faller, Ronald	Midwest Roadside Safety Facility
	eading Ridge Morphology NSF	*Application of MASH Test Criteri	a to Breakaway Sign and Luminaire
\$270,905			ork-Zone Traffic Control Devices
Fngen-Wedin Nancy	Teaching, Learning and Teacher Education	\$414,999 National Ac	cademy of Sciences-NCHRP through George Mason University
	ous Roots School Leaders	Asadollahipajouh, Mojdeh	Midwest Roadside Safety Facility
	ED		Midwest Roadside Safety Facility
	Educational Administration Educational Administration	Stolle, Cody	Midwest Roadside Safety Facility
		*MASH TL-2 Crash Tes	ting and Evaluation of a
Erickson, Galen	Animal Science	Steel Tube Rail and Steel W	/F Post Bridge Railing System
	tock Systems for the Western Corn Belt		Concrete Box Girders
\$540,000	USDA-ARS		WSP Canada Inc.
	Animal Science		Midwest Roadside Safety Facility Midwest Roadside Safety Facility
Watson, Andrea	Animal Science		ivil and Environmental Engineering
Friman Jahn	Nahwaska Stata Fawast Camina		Midwest Roadside Safety Facility
Erixson, John	Nebraska State Forest Service enetic Resources, and Outreach to		, ,
	percial U.S. Hazelnut Production		nd Transitions for Wood Bridges –
	JSDA-NIFA through Oregon State University		se IIBUSDA-FS through
Clare, Aaron	Nebraska State Forest Service		ment for Forestry and Communities
			Midwest Roadside Safety Facility
	y Assistance Funds Adjacent USDA-FS	Rosenbaugh, Scott	Midwest Roadside Safety Facility
\$300,000	USDA-F3	Steelman, Joshua	ivil and Environmental Engineering/
Eun, Jongwan	Civil and Environmental Engineering	Stalla Cade	Midwest Roadside Safety Facility
	t of Novel Barrier Materials for	Stolle, Cody	Midwest Roadside Safety Facility
Geological Reposito	ory to Advance Long-term Storage of	Crash Testing of a Pr	ecast Concrete Barrier
	ste (HLW) and Spent Nuclear Fuel (SNF)	\$414,128	Iowa Department of Transportation
	DOE-EPSCoR		Midwest Roadside Safety Facility
	Mechanical & Materials Engineering	Rosenbaugh, Scott	Midwest Roadside Safety Facility
	Civil and Environmental Engineering	Steelman, Joshua	ivil and Environmental Engineering/ Midwest Roadside Safety Facility
	Multiphysical Testing-Modeling of		
	leinforced Engineered Barrier Materials hancing Repository Performance		Mechanical & Materials Engineering
	DOE-NEUP	Nucleation Control of Co	njugated Polymers Through
Kim, Seunghee	Civil and Environmental Engineering		on and Self-seedingNSF
-	- •	ψ545,000	

Fernando, Samodha	Animal Science	Gardner, Scott	Biological Sciences/
*Risks Associated with Genetically Enginee			University of Nebraska State Museum
Beef Cattle Production: Evaluation of P			Digitizing Collections to Trace Parasite-Host
Transmission and Ecological Conse	quences		Predict the Spread of Vector-Borne Disease
\$499,913	USDA-NIFA	\$426,149	NSF
Investigating the Emergence and Ec		Gay, Timothy	Physics and Astronomy
Antimicrobial Resistance in High-Risk I			Polarized Electron Physics
332,437 USDA-AFRI through			NSF
Schmidt, Amy Animal Science/Biological	Systems Engineering	, ,	
Investigating Mobile Genetic Elements and	Resistance Gene	Ge, Yufeng	Biological Systems Engineering
Reservoirs Towards Understanding the Emerg			stem to Measure Deep Soil C Stock and Flux
of Antimicrobial Resistance in Beef Cattle Pro	oduction Systems	\$624,997	DOE-ARPA-E through Soil Health Institute
\$830,751		CPS: 3D Dyno	amic Soil Information System Enabled
Bartelt-Hunt, ShannonCivil and Enviro			V and Proximal Depth Sensing
Loy, DustinVeterinary Medicine and		\$717.698	
Schmidt, Amy Animal Science/Biological Snow, Daniel Ne	bracka Water Center		Biological Systems Engineering
Stowell, Rick Biological			Computing
Stowell, Nick biological	i Systems Engineering		Statistics
Moving Beyond Rumen Microbiota Con	nposition to		
Identify Interactions Between Host Genoty	/pe and Rumen	Ghose, Nirnimesh	Computing
Function Towards Identifying Genetic N			CORE: Small: Towards Robust,
Microbial Functions That Influence Fee	d Efficiency		and Resilient Radio Fingerprinting
\$500,000		\$299,997	NSF
Morota, Gota			
Spangler, Matthew	Animal Science	Gilmore, Troy	Natural Resources
			cing Image-Based Hydrology for
Frels, Katherine Agron	omy and Horticulture	USG	GS Stream Gage Applications
*Characterization of Resistance		\$271,000	DOI-USGS
Fusarium Head Blight in Wheat and It			
\$279,178	USDA-ARS		atershed-scale Groundwater Transit Time n Field Sampling and Numerical Modeling
Breeding Scab-Resistant and Low	DON		NSF
Winter Barley Varieties for the Gred			Biological Systems Engineering
\$284,038		,	3 7 3 3
, , , , , , , , , , , , , , , , , , , ,		Golf, Frank	Physics and Astronomy
Plant Breeding Partnerships: Contir	nuing to		tandard Higgs Boson Off the Beaten Path
Develop and Validate the Tools for Hyb	brid Wheat		NSF
\$650,000		Ψ323,000	
	nysics and Astronomy		
High-Efficiency, High-Current Laser-driven E			
\$749,622			

Shadwick, Bradley Physics and Astronomy

Golick, Douglas Building Undergraduate Research and Science	Griep, Mark REU Site: Research Experiences for Undergraduates
Communication Skills Through Beneficial Insects Protection Research and Extension Experiences (FACT)	in Chemical Assembly at the University of Nebraska \$387,249
\$344,767. USDA-NIFA Anderson, Troy Entomology Brewer, Gary Entomology Dauer, Jenny Natural Resources Louis, Joe Entomology McMechan, Justin Entomology	Groskopf, Jessica Panhandle Research and Extension Center North Central Farm and Ranch Stress Assistance Center: Engaging Programs to Support Well-being \$437,193
Peterson, Julie	Grosskopf, Kevin Durham School of Architectural Engineering and Construction Modular Construction: A Field Study of Energy Efficiency and Code Compliance Through Offsite Prefabrication \$400,000
Graef, George Agronomy and Horticulture Winter Nursery Support for Soybean Breeding and Genetics Studies \$265,692Nebraska Soybean Board	Grover, Piyush *Dynamics and Control of Active Nematics using Nonlinear Reduced-Order Models
Increasing Soybean Genetic Gain for Yield by Developing Tools, Know-How and Community Among Public Breeders in the North Central U.S.	\$450,000
\$253,260 North Central Soybean Research Program through Ohio State University Hyten, David Jr	Inducing and Exploiting Criticality in Collective Behavior by Phase Space Analysis of Mean Field Type Control Problems \$311,533
Soybean Breeding and Genetic Studies for Nebraska	Dynamics and Control of Active Nematics Using
\$304,247Nebraska Soybean Board	Nonlinear Reduced-order Models \$450,000
Grassini, Patricio Agronomy and Horticulture	Park, Jae Sung Mechanical & Materials Engineering
*Identifying Pathways to Mitigate the Impact of Urbanization Trends on Croplands \$500,000	Gruverman, Alexei Nebraska Center for Materials and Nanoscience *Mechanical Control of the Electronic Properties of 2D Ferroelectrics \$252,000
\$296,587 International Fertilizer Association	Guan, Yawen Statistics
Niche \$685,000Bill and Melinda Gates Foundation through Regrow Agriculture Inc.	*Improved Coupled Climate Simulations in E3SM Through Enhanced Sea Ice Mechanics \$467,856
Extrapolation Domains for Aggregating Environmental Outcomes from Local to Regional Levels \$375,000	Guo, Jiantao Chemistry Development of Proximity-Induced Fluorogenic Reactions for Imaging Biomolecular Interaction \$613,476

Guretzky, John Fostering Resilience and Ecosystem Services in Landscapes by Integrating Diverse Perennial Circular Systems \$371,410 USDA-NIFA through University of Wisconsin-Madison Habecker, Patrick Promoting Community Conversations About Research to End Native Youth Suicide in Rural Alaska \$310,778 NIH-NIMH through University of Michigan	Hasan, Mohammad Rashedul Towards an Al to Deliver Individualized Just-in-Time Interventions that Enhance Student Performance in STEM Disciplines \$599,891
Hage, David Ultrafast Affinity Extraction Fundamental Studies and Use in Environmental Applications \$400,000	Hastings, Lindsay Agricultural Leadership, Education and Communication *Beyond the Farm Gate: Building a Leadership Development System to Support Rural Community Wellbeing and Prosperity \$647,932
\$397,788	Navigation and the Neural Integration of Multimodal Sensory Information in the Brain of an Arthropod \$331,353
Harwood, David Earth and Atmospheric Sciences/ Antarctic Drilling Program Sensitivity of the West Antarctic Ice Sheet to 20 Celsius (SWAIS 2C) \$757,689	Umonhon Nation Agricultural Economic Development Program \$400,000

Hong, Xia Physics and Astronomy/ Nebraska Center for Materials and Nanoscience DMREF: Accelerated Discovery of Artificial Multiferroics with Enhanced Magnetoelectric Coupling \$450,000	Demonstrating an Integrated Nutrient Management Approach for Improving Drinking Groundwater Quality in Nebraska \$298,631 USDA-NIFA Johnson, Leslie Extension Malakar, Arindam Nebraska Water Center Milander, Jeremy Extension Proctor, Christopher Agronomy and Horticulture Schmidt, Amy Animal Science/Biological Systems Engineering Snow, Daniel Nebraska Water Center
Houston, Adam Earth and Atmospheric Sciences *Collaborative Research: Investigation of Supercell Left-Flank Boundaries and Coherent Structures: TORUS-LITE \$385,103	Jacobs, Margaret Center for Great Plains Studies *Expansion of Historic Resource Study on African American Homesteaders \$286,041
NRI: Dispersed Autonomy for Marsupial Aerial Robot Teams \$454,570NSF Targeted Observation by Radars	Jaffe, Anna Psychology/Rural Drug Addiction Research Center *Connecting Alcohol Myopia to Real-World Risk Behaviors through Cognitive Ecological Momentary Assessment \$434,445
and UAS of Supercells (TORUS) \$939,784	Leveraging Social Networks to Promote Sexual Assault Recovery and Reduce Drinking to Cope through Web-Based Intervention \$897,913
Digestive Tract Microbiome in Healthy Term Infants Receiving Mothers-own Breast Milk or Cows Milk-based Infant Formulas \$315,749	Jagodinsky, Katrina History/Center for Digital Research in the Humanities REU Site: Freedom Stories Digital Legal Research Lab
Huynh, Nathan Civil and Environmental Engineering/ Nebraska Transportation Center	\$331,568
Rural Rail Safety Center \$535,500	Jin, Congrui From Agricultural Waste to Lithium-Ion Battery Anodes: Deciphering the Feedstock Processing-Property-Performance Relationship \$320,000. USDA-NIFA Clarke, Bertrand. Statistics Wilkins, Mark. Biological Systems Engineering/
Iqbal, Javed *Evaluating Nitrogen Balance and Fertilizer Equivalence of Cover Crop Nitrogen Using the University Long-Term Tillage Trials \$585,340	Food Science and Technology/ Industrial Agricultural Products Center Johnson, Allison *Resolving the Drivers of Variation in Cooperative Social Groups Along Environmental Gradients \$812,181

	Food Science and Technology for Food Allergen Detection		Civil and Environmental Engineering
	tative Risk AssessmentUSDA-NIFA		RCA) Using Carbon Dioxide (CO ₂) for Its nmercial Application Phase II
	Food Science and Technology		
Downs, Melanie	Food Science and TechnologyFood Science and Technology		Civil and Environmental Engineering
	o,	Kim, Surin	Textiles, Merchandising and Fashion Design
	Biological Systems Engineering ater Storage Effect of Individual & d Impacts on Soil Quality Variables	Leveraging (and Youth F	Community Connections, Local Issues, ligh Tech Entrepreneurship Education ure Rural Economic Opportunities
\$391,756		\$493,560	
Kaskie, Shawn	Extension		
	al Communities Pandemic ResponseDOC-EDA	Kingery, Heather Gre	Nebraska State Forest Service eat Plains Biochar Initiative II:
Barrera Fuentes. Sandra	Extension	Supply and Dem	and for Biochar as a Cattle Feed Additive
	Agricultural Economics	\$250,000	USDA-FS
	Extension		Animal Science
•	Extension		
	Sociology/Women's and Gender Studies		
	ption Laws and the Rights and Gender Minorities	Knoche, Lisa	Nebraska Center for Research on Children, Youth, Families and Schools
	NSF Sociology	Getting Rea \$292,723	dy Preschool Development Grant PDG DHHS-ACF-Nebraska Department of
		·	Health and Human Services through
Keshwani, Deepak	Biological Systems Engineering al Game Simulations to Enhance		Nebraska Children and Families Foundation
Understanding of Corn	-Water Ethanol-Beef System Nexus	Korus, Jesse	Natural Resources
	NSF		and Sustainability in the Republican Basin
Rosenbaum, David	Biological Systems Engineering Bureau of Business Research Bureau of Business Research	\$269,008Ne	ebraska Natural Resources Commission through Middle Republican NRD
		Kovalev, Alexey	Physics and Astronomy
Extracellular V	Chemical and Biomolecular Engineering Yesicles as the Vehicles for	Spin Currents ir	Magnetic Systems and Heterostructures
	ıry Induced by HIV and Alcohol		
\$344,520	NIH-NIAAA through University of Nebraska Medical Center		Physics and Astronomy EC: The IceCube EPSCoR Initiative (IEI) - Cube and the Data Revolution
Kim, Panya	Center for Plant Science Innovation		NSF through
IOS: The Microtubul	le Network and Plant ImmunityNSF	, , , , , , , , , , , , , , , , , , , ,	South Dakota School of Mines and Technology
	nistry/Center for Plant Science Innovation	Krull, Dean	Agronomy and Horticulture
		Man	aging Irrigation Systems Today
		\$552,982	

	Natural Resources g Hydrogeologic Databases to Assist	Li, Qingsheng	Biological Sciences/ Nebraska Center for Virology
\$654,700	Vater Resources ManagementLower Elkhorn NRD	CNS to the Periphery Af	on Repopulation of SIV Reservoirs from the ster Antiretroviral Therapy Interruption NIH-NINDS through Boston College
Lai, Rebecca	Chemistry	Targeted In Vivo Delive	ry of Gene Therapeutics for HIV Cure
	oxins via Electrochemical Sensors (DTECS)DoD-DTRA through National Strategic Research Institute	\$609,884	NIH-NIAID through Temple University
	sed-Loop Neural Probe for Optogenetics, logy and Neurochemical Monitoring		NIH-NIAID through University of Wyoming
	. NIH-NINDS through University of Connecticut	Li, Xu Antibiotic Resistance	Civil and Environmental Engineering e Genes in the Soil-Plant Ecosystem
Lau, Josephine	Durham School of Architectural	\$330,000	NSF
	Engineering and Construction acy of Air Filters in Classrooms on		Nebraska Water Center Agronomy and Horticulture
	Academic and Learning Outcomes	19 10 11	A. 10 c b /
\$556,003 Bovaird, Jim	Nebraska Department of Education Educational Psychology	Libault, Marc	Agronomy and Horticulture/ Center for Plant Science Innovation cterization of the Transcriptional
Lawrence, Nevin	Panhandle Research and Extension Center	Programs Contro	lling Plant Root Organ Initiation
BARRA	AL - Bioenergy, Advanced Biofuel ber Research Agricultural Linkages		USDA-NIFA
\$500,001	USDA-NIFA through Ohio State University Panhandle Research and Extension Center	Capabilit	t of Advanced Multi-Modal ties for Plant Single-Cell
	Panhandle Research and Extension Center	\$649,009	Syngenta
Lee, Kevin	Physics and Astronomy/Center for Science, Mathematics and Computer Education		Natural Resources is to Investigate Mesoscale Heterogeneity
	d Research on Smartphone Simulations in oductory College Astronomy	\$260,822	ast U.S. Tornado EventsDOC-NOAA
\$299,344	NSF	Houston, Adam	Earth and Atmospheric Sciences
Menon, Deepika	Teaching, Learning and Teacher Education/ Center for Science, Mathematics	Little, Andrew	Natural Resources
	and Computer Education	Identifying and Prioritizing Management in Agr	Habitat for Pheasant Conservation and iculturally Dominated Landscapes
Lewis, Ronald Improving F	Animal Science Robustness and Climatic Resilience in	Carroll, John	Nebraska Game and Parks CommissionNatural Resources
	ep Populations Through GenomicsUSDA-NIFA	Twidwell, Dirac Jr	Natural ResourcesAgronomy and HorticultureNatural Resources
Li, Haorong	Durham School of Architectural		P. J. 1981
_	Engineering and Construction erations of Common HVAC Systems		Entomology/Biochemistry ay Between Sorghum and Fall Armyworm
	Turntide Technologies		USĎA-NIFA
		I .	

Loveall-Hague, Susan	Special Education and Communication Disorders	Mahmood, Rezaul The Great Pla	Natural Resources ins Irrigation Experiment (GRAINEX) for
Designing and Providing A \$955,034	cademic Interventions	Understand	ding the Influence of Irrigation on the Boundary Layer and Weather Events
Lambert, Matthew	Communication Disorders		NSF
Savaiano, Mackenzie	Special Education and Communication Disorders		Nebraska Water Center g Reactive Nitrogen Dynamics in the e Zone to Protect Groundwater Quality
Lu, Yongfeng Electory Multifunctional Laser Processing Pitting and Cracks in Welded Stainl \$800,000	ess Steel Dry Storage CanistersDOE	\$749,861	
Luck, Joe Initiation of Nitrogen Application Technolog	gy Demonstration	Additive Mo Materials and	Mechanical & Materials Engineering anufacturing of Functional Emulsions: d Printing for Designer MicrostructruesNSF
\$452,540	EPA through the through the through the through the through the through the through through the through through the through through through the through throug	Access to A \$408,187 Andrews, TreyS Tyler, KimberlyS McQuillan, Julia *Center for S P \$399,960 Menon, Deepika Research A Study of Element	Psychology/ Rural Drug Addiction Research Center evolution of Craving, Affect, Stressors, and slochol (CASA) Using Responsive EMA
Lyons, Kate RCN: Ecological and Events Extinction and Ecosysters \$500,131	em Engineers (E6)		
MacDonald, James Characterizing Digesti \$365,864 Erickson, Galen	Cargill		

Montooth, Kristi *RII-BEC: STEM-POWER Research Pr Empowering Students from the Start with Purpo Well-being as They Engage in Research R \$999,125 Burks, Marianna Wonch Hill, Trish RoL: FELS: EAGER: A Predictive Framework as an Engine of Functional Environmenta across Levels of Biological Organia \$354,998 DeLong, John Moon, Alena	se, Ownership, and elationshipsNSF .Biological SciencesSociology of Metabolism Responses ationNSF .Biological Sciences Chemistry	Maternal Obesity \$638,000	Nutrition and Health Sciences/ Nebraska Center for the Prevention of Obesity Diseases/ Nebraska Center for Redox Biology/ Nebraska Food for Health Center Macadamia Nut Protects against -induced Complications
Developing Educational Measurement Co Support Investigations of Students' Conce \$300,112	tions of Light		Nebraska Center for Redox Biology/ Nebraska Food for Health Center
Morin, Stephen *Powering Soft Actuators Directly Small Molecule Fuels for Operational \$ \$478,683 Mower, Jeff Agronor Center for Plan *Investigating Recurrent Cooption of the Mitocho Maturation System in Archaeplas \$528,654	Chemistry with VersatilityDoD-ARO ny and Horticulture/ t Science Innovation ndrial Cytochrome c tidaNSF Cystems Engineering Controls ilityUSDA-NIFA	Improving Agricultural Water Sustain Food and Energy C \$847,117	Biological Systems Engineering/ gherty Water for Food Global Institute r Use and Nutrient Management to Crops Production in the Corn Belt N-NIFA through University of Maryland Biological Systems Engineering gherty Water for Food Global Institute Agronomy and Horticulture braska Research and Extension Center of Consortium-Base Funding ood and Agriculture Research through Colorado State University Daugherty Water for Food Global Institute gherty Water for Food Global Institute gherty Water for Food Global Institute gherty Water for Food Global Institute Behavior to Reduce Irrigation Measurements and Social Norms dy in the Republican River Basin
		*Simulation Based Surgical Tr Procedures Using a Novel	raining for High Risk Low Resourced Simulator with Smart MentoringNIN-NIBIB

Peritoneal Oxygen Delivery for Treatment of Acute Respiratory Distress Syndrome \$441,472NIH-NHLBI through University of Colorado	Pajouh, Mojdeh A. Midwest Roadside Safety Facility AASHTO Guidelines for Implementation of MASH Sign Supports, Breakaway Poles, and Work Zone Traffic Control Devices \$500,000
Nelson, Timothy Center for Brain, Biology and Behavior Role of Executive Control in Adolescent Substance Use and Co-occurring Problems	National Academy of Sciences-NCHRP Faller, RonaldMidwest Roadside Safety Facility Reid, JohnMechanical & Materials Engineering
\$689,191	Pannier, Angela Influence of Maternal and Embryonic-Derived Extracellular Vesicles on the Initiation of Porcine Conceptus Elongation \$500,000
Ngoko Djiokap, Jean Marcel Physics and Astronomy *Dynamics of Two-Electron Atomic and Molecular Processes \$300,000	Panther, Grace Civil and Environmental Engineering *REU Site: Unpacking the Significance and Rigor of Engineering Education Research
Strong Field & Ultrafast Atomic and Molecular Processes \$548,398NSF	\$392,226
Nguyen, Lim Electrical and Computer Engineering ABC Group SRA: Center for Electromagnetic	Park, Jae Sung Exploring Flow Enhancements of Hydrophobic Particles in Confined Fluid Flow
Concrete R&D and Shielding Innovations \$301,408American Business Continuity Domes, Inc.	\$418,120
Niu, Wei Chemical and Biomolecular Engineering/ Nebraska Center for Energy Sciences Research Engineering Carboxylic Acid Reductase for the Biosyntheses of Industrial Chemicals	Nonlinear Electrokinetics at Polarizable Soft Interfaces: Implications for Cell Membrane Characterization and Nanopore Transport \$387,356NSF Yang, RuiguoMechanical & Materials Engineering
\$335,516	Pedrigi, RyanMechanical & Materials EngineeringUltrasound as a Mechanotherapy for Endothelial Cell Dysfunction\$602,769NIH-NIBIBKievit, ForrestBiological Systems EngineeringSun, XinghuiBiochemistryTurner, JosephMechanical & Materials Engineering
Center for Plant Science Innovation Elucidating the Health-Beneficial Traits of Kernels of Maize Relatives Digested in the Human Gastrointestinal Tract \$500,000	Pegg, Mark *Assessing Movement and Entrainment of Walleye in Lewis and Clark Lake and Its Tailwaters \$464,400

Pekarek, Katie *Evaluation and Demo	Natural Resources	Pitla, Santosh	Biological Systems Engineering ation for Automated Seed Refilling in
Interseeded Cover Crops		Row Cr	rops (U2AGV Refill)
	USDA-NIFA	\$452,783	USDA-NIFA
Cafaro La Menza, Nicolas	and Extension Center	Rohrer, Rodney	Biological Systems Engineering Biological Systems Engineering
Iqbal, Javed Proctor, Christopher	Agronomy and Horticulture Agronomy and Horticulture	-	Biological Systems Engineering
Déves Jones El	leatrical and Ocumentar Fusinessins		ational Load Profile Generation in or Testing in Mixed-mode Power States
Pérez, Lance El Spatial Visualization Skills and	ectrical and Computer Engineering	\$472.887	
\$645,943	1 Engineering Problem Solving NSF	Hoy, Roger	Biological Systems Engineering
Panther, Grace	ivil and Environmental Engineering	Luck, Joe	Biological Systems Engineering Biological Systems Engineering
Petersen, Jessica	Animal Science		
*Improving the Efficiency of Beef	Production by Understanding the	Pope, Kevin	Natural Resources
Untapped Potential of N			pping, Risk Assessment and
	USDA-NIFA	\$441 326	Invasive Species in Nebraska . Nebraska Game and Parks Commission
rates, Dustin	Animal Science	Zach, Allison	
Annotation of Functional Reg			
\$500,000	USDA-NIFA	Powers, Robert	Chemistry
Dataman India West Cont	had December and Futencies Contac		AED (Androstenediol, Neumune) for the cute Radiation Syndrome (ARS)
Peterson, Julie West Cent *Do Persistent Entomopathor	tral Research and Extension Center		
Western Corn Rootworm C			University of Nebraska Medical Center
Non-Target Soil Fa			Chemistry
\$309,999 USDA-N		Helikar, Tomas	Biochemistry
Powers, Thomas	Plant Pathology	The Molecular Mechanism I	inking Respiratory NADH Oxidation and
*Chemical Applicati	ion for WRC Control		Staphylococcus aureus
\$300,000	USDA-NIFA	\$837,706	NIH-NIAID through
Golus, Jeff West Cent	tral Research and Extension Center		University of Illinois Urbana-Champaign
Katimbo, Abia West Cent		Somerville, GregVete	rinary Medicine and Biomedical Sciences
Rudnick, Daran West Cent	ral Research and Extension Center	Proctor, Christopher	Agronomy and Horticulture
Insect Resistanc	e Management		rch and Demonstration Sites in the
Evaluating the Impact of			or Nitrate Reduction
VIP3A Bacillus thuringiensis To	xin on Western Bean Cutworm	\$272,574	Nebraska Environmental Trust through
\$500,000	USDA-NIFA		Lower Elkhorn NRD
Corteva Inno	vation Earms		Biological Systems Engineering Nebraska Extension
\$315,991			Nebraska Extension
		Powers, Crystal	Nebraska Water Center
Pierobon, Massimiliano	Computing		Civil and Environmental Engineering/
CIF: Small: WetComm: Foundation		n 1 · 1 · D	Nebraska Water Center
\$515,528			Biological Systems Engineering Nebraska Extension
Niu, Wei Chen	nical and Biomolecular Engineering	Tillinetinian, Amy	

Qian, Yi CNS Core: Small: S	Electrical and Compute secure and Efficient Mobile Edge Co	r Engineering mputing in	Rasby, Rick Nebraska Exte	Nebraska Extension ension Implementation Program
Wir	eless Heterogeneous Networks		\$339, 974	USDA-NIFA
\$250,000		NSF	Bradshaw, Jeffrey	Panhandle Research and Extension Center . Southeast Research and Extension Center
Qiao, Wei	Electrical and Compute	r Fnøineerinø	Jackson-Ziems, Tamra	Plant Pathology
	upt and Control for Complex Power		Jhala, Amitkumar	Agronomy and Horticulture
\$300,000 DOE:	through Battelle-Pacific NW Nation	al Lahoratory		Entomology
Ou Livan	Electrical and Compute	r Engineering	Nygren, Aaron	Nebraska Extension
Qu, Liyuii	Liectrical and Compute	Linginieering	Proctor, Christopher	Agronomy and Horticulture
0: V:				Panhandle Research and Extension Center
Qiao, Xin	Panhandle Research and Exte	ension Center		Agronomy and Horticulture
	An Integrated and Smart System		Wright, Robert	Entomology
for Irrigation	on Management in Rural Communit	ies	Wu-Smart, Judy	Entomology
\$541,048	USDA-NIFA through Univ	ersity of lowa		
	West Central Research and Exte		Day Chittaranian	Civil and Environmental Engineering/
Yang, Haishun	Agronomy and	d Horticulture	Ray, Chittaranjan	Civil and Environmental Engineering/
				Nebraska Water Center/
Qu, Liyan	Electrical and Compute	r Engineering	5	Daugherty Water for Food Global Institute
	ppable, Fault-Tolerant, Modular Pov			ta Bases for Model Development and
Converte	r System for Solar Photovoltaic Plan	ts		Crop Models in Midwest Farms
			\$790,000	USDA-ARS
	Electrical and Compute			
Qido, Wei	Liectrical and Compute	Linginicering	Reddy, N.R. Jayagopala	Veterinary Medicine
Dadu Datuanala		Mathematics		and Biomedical Sciences
Radu, Petronela		mathematics	Trained Im	nmunity in the Prevention of
	ocality in Continuum Mechanics,			ocarditis and Pancreatitis
Populati	on Dynamics, and Neural Networks			NIH-NIAID
			Barletta, Raul Ve	eterinary Medicine and Biomedical Sciences
Foss, Mikil		Mathematics		Biochemistry
				eterinary Medicine and Biomedical Sciences
	Nonlocal Models in Continuum Med		200	2101
			TCR Transgenic M	odels for Dilated Cardiomyopathy
Foss, Mikil		Mathematics		NIH-NIAID
			Kidamhi Srivatsan	Chemical and Biomolecular Engineering
Rajca, Andrzej		Chemistry		Biological Systems Engineering
	cles for Dual MRI-Guided Therapeut		Steffen David Ve	eterinary Medicine and Biomedical Sciences
and	Ovarian Cancer Drug Delivery		July 2 Content, David	stermary medicine and biomedical sciences
\$251.487	NIH	-NCI through	Dadfaarn Davas	Aguanama and Hautiantian
, -,,, -,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Massachusetts Institute	of Technology	Redfearn, Daren	Agronomy and Horticulture
	midded motitute	o		e Grazing Management Strategies for
ĺ	Nitrogen-Centered Radicals			izing Corn Residue Use
		NSF		
Ψ002,007			Drewnoski, Mary	Animal Science
Damanusthu D		0	Parsons, Jay	Agricultural Economics
Ramamurthy, Byrava	murtny	Computing	VanderPlas, Susan	Statistics
NeTS: S	Small: Intelligent Optical Networks			
	alization and Software-Defined Con			
\$615,996		NSF		
			1	

Inquiry-Based \$291,000	Animal Science Agricultural Literacy Through Professional Development	Technologi Inno \$850,000 Burr, Chuck Caswell, Katherine Ingram, Troy Ray, Chittaranjan Rees, Jennifer Stockton, Matt	West Central Research and Extension Center ating Adoption of Water Conservation ies and Management Practices Through avative Engagement Programming
Roohi, Arman	Computing		West Central Research and Extension Center
*Integrated S Computing fo	ensing and Normally-off or Edge Imaging SystemsNSF	Ryherd, Erica	Durham School of Architectural Engineering and Construction
Curb Combination \$600,000	Midwest Roadside Safety Facility isuardrail System (MGS) and on Guidelines for MASH TL-3	Diversity Awar Virtud \$493,001 Diefes-Dux, Heidi Kim, Kyungki Konstantzos, Iason.	pineering Student Engagement, Self-efficacy, seness and Retention Using Visualization and al/Augmented Reality TechnologiesNSF through Georgia Institute of Technology
Biogenesis of the	Biochemistry/ Center for Plant Science Innovation ct Site Components Enabling Photosynthetic Membrane DOE	Biochemical Refac	Chemical and Biomolecular Engineering o: Deciphering the Roles of Genetics and Redundancy and Pathway Regulation Via ctoring the Protective Plant Cuticle
Capability of t \$555,362 Haigh, Tonya	Civil and Environmental Engineering ological Drought Monitoring he U.S. Drought Monitor NASA Natural Resources Natural Resources	Individu	Chemical and Biomolecular Engineering on-invasive Electrophysiology of ual Microbes in a Colony in Real-time

Saviano, Mackenzie	Special Education and Communication Disorders/	Schachtman, Daniel	Aş
	Nebraska Center for Research on		Center fo
	Children, Youth, Families and Schools	The Role of	Plant Root Exudat
	pairments Education in Writing	Soil Microbial Com	
	through University of California-Irvine		Nutrient Cycling an
Koziol, Natalie	Nebraska Center for Research on Children, Youth, Families and Schools	\$749,812	
		Schmidt, Tyler	
	Intervention Design		Advanced Comput
	. ED through University of Tennessee	to Identify Changes in	
	Educational Psychology	Associated with Illn	
	cation and Communication Disorders cation and Communication Disorders		ne Nursery and Fini
	Special Education and	\$301,793 Foundation	on for Food and Ag
zovedn riagae, edean	Communication Disorders	Moto Roppy	
Schachter, Rachel	Child, Youth and Family Studies	Mote, Benny	
Scalora, Mario	Psychology/Public Policy Center	Schnable, James	A
	y Influenced Threatening and		Center fo
	n Rural CommunitiesDOJ-NIJ	CPS: Medium: Field-s	
	Public Policy Center	Management Using C	coupled Molecular ale Data Fusion and
	Public Policy Center	\$264,581	
, ,	,	Shi, Yeyin	
	nip Identity in Developing	Sin, reyni	Center fo
	cers for the Future Force (B4)		
	DoD-ARI	High Intensity Phenotyp	
	Public Policy Center	and Sense Making	
MCEIravy, L.J	Public Policy Center	\$389,320	USDA-NIFA thr
Schachter, Rachel	Child, Youth and Family Studies/		o: Increasing Crop
	Nebraska Center for Research on	Connecting Models	
	Children, Youth, Families and Schools	\$387,960 Foundatio	
	Ouring Early Childhood:		University of
	comes and Multiple Methods vant Classroom Factors	ROL: FELS: FACER	R: Genetic Constrai
	ED-IES through Ohio State University	1	nismal Complexity
	Child, Youth and Family Studies/	\$299,801	
Casas, Ma Ciariosono	Nebraska Center for Research on	+ 250,00	
	Children, Youth, Families and Schools	Schubert, Eva	Electrical
			1 151.11 11:31

Soil Microbial Community (That Has on Nutrient (Agronomy and Horticulture/ Center for Biotechnology/ Center for Plant Science Innovation oot Exudates in Shaping Composition and the Influence Cycling and Nitrogen Use
Schmidt, Tyler Utilization of an Advance to Identify Changes in the Phys Associated with Illness and A During the Nurse \$301,793 Foundation for Foot	Animal Science and Computer Vision Platform siological and Behavioral Changes Aggressive/Damaging Behavior ry and Finisher Phase od and Agriculture Research through National Pork Board
Management Using Coupled Multi-scale Data \$264,581	Agronomy and Horticulture/ Center for Plant Science Innovation gle Plant Resolution Agricultural Molecular and Macro Sensing and Fusion and Modeling
of Organismal Co	c Constraints on the Increase omplexity Over Time NSF
*Broadband and Tunable Enhand at the Visible with New UI \$567,000	Electrical and Computer Engineering ced Chiral Light-Matter Interactions trathin Helical MetamaterialsNSF Electrical and Computer Engineering n-Surface Interaction-Driven onal Metal Oxide HeterostructuresNSF

Defect Characterizat	Electrical and Computer Engineering aramagnetic Resonance Ellipsometry ion in Ultrawideband Gap Monoclinic Oxide and Related Alloys	\$935,756	Biological Systems Engineering CPS-Enabled Variable Rate Technology
\$499,987	DoD-AFOSR	Heeren, Derek	Biological Systems Engineering
Korlacki, Kafal	Electrical and Computer Engineering	Rudnick, Daran	Agronomy and Horticulture Biological Systems Engineering
Band Structure an	and Annealing onto the Lattice Dynamics, d Free Charge Carrier Properties in Juminum Oxide Semiconductor Alloys	Zhang, Kuan Zhou, Yuzhen	Electrical and Computer Engineering Statistics
	NSF Electrical and Computer Engineering	Validating	erinformatic Tools for Exploring and 3 Sow Posture and Piglet Activity USDA-NIFA
Secord, Ross	Earth and Atmospheric Sciences/ University of Nebraska State Museum	Brown-Brandl, Tami	Biological Systems Engineering
	ıl and Paleoecological Responses to the Early Eocene Climatic Optimum	Site-S	nmanned Aerial Application System for Specific Weed Management
\$337,950		Jhala, Amit	
	Physics and Astronomy Kinetic Hybrid Modeling of Intense, a Laser Plasma Interactions	Zhang, Kuan	Electrical and Computer Engineering Electrical and Computer Engineering
	NSF		Mechanical & Materials Engineering/ ebraska Center for Materials and Nanoscience
CYVET: A Cyber-Phy	Electrical and Computer Engineering rsical Security Assurance Framework ni-Supervised Vetting Approach	\$451,624	Phase Discovery in Finite-sized SystemsNSF
\$844,529DC Alahmad, Moe	DE-NETL through UT-Battelle LLC-Oak RidgeDurham School of Architectural Engineering and Construction	Metal Big \$670,000	the Thermal Physics and Metallurgy of g Area Additive ManufacturingDOEMechanical & Materials Engineering
	Electrical and Computer Engineering Electrical and Computer Engineering		Civil and Environmental Engineering
Locating and Mapp Using Pig-mount	Durham School of Architectural Engineering and Construction st Method to Automate Detecting, bing Internal Gas Pipeline Corrosion and Stereo Cameras	Aging Rural Bridge \$476,933	: MIDWEST: Smart Big Data Pipeline for e Transportation Infrastructure (SMARTI) NSF through University of Nebraska at Omaha
		Wittich, Christine Wood, Richard	Civil and Environmental EngineeringCivil and Environmental EngineeringCivil and Environmental Engineering

Sinitskii, Alexander	Chemistry		Silver Carp and Bighead Carp in the
Topological Spin Qubits Based on Graphene Nanoribbons			ka: Emphasis on Population Distribution,
\$627,324 DoD-C	ONR through University of Pittsburgh		Demographics and Reproduction
			DOI-FWS through
Smith, Wendy	Mathematics/Center for Science,		Nebraska Game and Parks Commission
M	lathematics and Computer Education	Pegg, Mark	Natural Resources
	in Mathematics Through		
an Institutional Netv	work for Active Learning	Steelman, Joshua	Civil and Environmental Engineering/
			Midwest Roadside Safety Facility
			Requirements for Bridge Deck Overhang
Wakefield, Nathan		\$440,000	DOT-FHWA through
			National Academy of Sciences-NCHRP-TRB
Snow, Daniel	Nebraska Water Center	Faller, Ronald	Midwest Roadside Safety Facility
•	ccumulation Upper Big Blue		(5)
	elation to Fertilizer Management	MASH lesting	g of Single Sign Supports (Florida)
	Nitrate Concentrations	\$750,000	DOT-FL DOT through
\$297,104	Upper Big Blue NRD		Nebraska Department of Transportation
	Nebraska Water Center	Bielenberg, Robert	
			Midwest Roadside Safety Facility
Soh, Leen-Kiat	Computing		Midwest Roadside Safety Facility Midwest Roadside Safety Facility
	rove Computer Science Education for	Paiouh Moideh A	
	S Undergraduates	Tajoun, Mojaen A	
\$873,250		Stanbancan Mitaball	Panhandle Research and Extension Center
Ingraham, Elizabeth	Art, Art History and Design	Stephenson, Mitchell	duction through the Development of Precision
	Music	Improving Livestock Prod	nuction through the Development of Precision and Management Technologies
Ramsay, Stephen	English	\$000,000	USDA-ARS
			Biological Systems Engineering
Song, Hyun-Seob	Biological Systems Engineering/	Yiong Viiie	Animal Science
5.	Food Science and Technology	Along, Tijle	
*Phenotypic Response	of the Soil Microbiome to	Impact of Milk F	Production on Cow-Calf Productivity,
	al Perturbations	Grazine	g Behavior, and Profitability
\$480,000 DOE through Batt	telle-Pacific NW National Laboratory	\$299,999	USDA-NIFA
			Animal Science
	ange Flows on River Corridor and	·	
	eochemical Function	Grazing Land Monitori	ing Cooperative for Adaptive Management
\$399,893 DOE through Batt	telle-Pacific NW National Laboratory		USDA-NRCS
	D	Volesky, Jerry	West Central Research and Extension Center
	Division of Labor in		
Polysaccharide-de	grading Communities	Stevens, Jeffrey	Psychology/
\$648,819	NSF through Purdue University		Center for Brain, Biology and Behavior
	W - 15	Similarity as a Pr	ocess Model of Intertemporal Choice
Spurgeon, Jonathan	Natural Resources		NSF
*Sampling Efficiency Ass	sessment for Silver Carp and	Soh, Leen-Kiat	Computing/
Bighead Carp in Nebraska	Mid Order Streams and Rivers		Center for Brain, Biology and Behavior
	DOI-FWS through		
	braska Game and Parks CommissionNatural Resources		
regg, Mark	inatural Kesources		

Stevens-Liska, Maegan U.SRwanda Training Program	Office of Global Strategies	Sutter, Eli *Ultrafast Shift-Cu	Mechanical & Materials Engineering rrent Photodetection Using Polar Group IV
University Advancement and	d International Partnerships		Waals Semiconductors and Heterostructures
\$250,000			DoD-ARO
Sharpe, Blayne		Sutter, Peter	Electrical and Computer Engineering
Van Hoosen, Courtney	Office of Global Strategies		
Challa Cadu	Midwest Deedeide Cefety Feeility	Sutter, Peter	Electrical and Computer Engineering
Stolle, Cody *UARC III TOPR 2209 Mi		Emerging	n der Waals Crystals and Heterostructures as Energy and Quantum Materials
\$804,166 DoD-Offutt /			DOE-EPSCoR
Faller, Ronald	ational Strategic Research Institute	Sutter, Ell	Mechanical & Materials Engineering
Steelman, JoshuaCi		Nanowires from Lave	red van der Waals Crystals: Opportunities for
ottomining source	Midwest Roadside Safety Facility	Tuning Structure an	d Function in 1D-2D Hybrid NanostructuresNSF
*Implementation of MASH Surrogo Breakaway Poles, and Work	ate Test Vehicles for Sign Supports, Zone Traffic Control Devices	Sutter, Eli	Mechanical & Materials Engineering
\$750,000 DOT through Nat	ional Academy of Sciences-NCHRP		es in Layered Van der Waals Nanowires:
Asadollahipajouh, Mojdeh C	ivil and Environmental Engineering		wist Moires, Nanoscale Solenoids,
Faller, Ronald	Midwest Roadside Safety Facility		v Dislocation Spin Orbit Coupling
Steelman, JoshuaCi	Midwest Roadside Safety Facility	\$496,037	DoD-ONR Mechanical & Materials Engineering
	Midwest Roddside Safety Facility	Sutter, Ell	Mechanical & Materials Engineering
Storz, Jay	Biological Sciences	Suyker, Andy_	Natural Resources
Physiology of Hypox World's Highest-D		Long-lerm Mai	ze-Based Agro-Ecosystem Core Sites as neriFlux Management Project Network
\$827,312			DOE through
Ψ027,012			rsity of California-Berkeley National Laboratory
Stowell, Rick	Biological Systems Engineering		Agronomy and Horticulture
Water and Nut			Natural Resources
A Decision Tool and Synerg			Natural Resources
\$496,646USDA-N	IIFA through University of Arkansas	Liska, Adam	Agronomy and Horticulture/
Heemstra, Jill Northed	ast Research and Extension District	V 11.1	Biological Systems Engineering
Schmidt, Amy	Biological Systems Engineering	rang, Haisnun	Agronomy and Horticulture
0	DI : 14 . /	Svoboda, Mark	Natural Resources
Streubel, Robert	Physics and Astronomy/ nter for Materials and Nanoscience		al Composite Drought Indicator (GCDI)
Magnetic Order in Disorder		Hot Spot Eq	rly Warning and Information System
\$517,069			DoD-Air Force
Ψ317,003			Natural Resources
Sukumaran, Sunil	Nutrition and Health Sciences/		Natural Resources
outumulan, ounn	Nebraska Center for the	Haigh, Tonya	Natural Resources
	Prevention of Obesity Diseases	Knutson, Cody	
*Mucosal Immune Surveill			Civil and Environmental EngineeringNatural Resources
\$311,000			Natural Resources
			Natural Resources

Torquati, Julia	Child, Youth and Family Studies, Nebraska Center for Research or
	Children, Youth, Families and Schools
	able System for Preparing
	ers (RESPECT) across Nebraska
	arly Educator Investment Collaborative
Buchheister, Kelley	Child, Youth and Family Studies
	Nebraska Center for Research or
C Ki Ch-i-ti	Children, Youth, Families and Schools
Corr Klewrd, Christine	Child, Youth and Family Studies, Nebraska Center for Research or
	Children, Youth, Families and Schools
Engen-Wedin Nancy Teac	ching, Learning and Teacher Education,
Lingen-Wealth, Number read	Nebraska Center for Research or
	Children, Youth, Families and Schools
Hong Soo-You	Child, Youth and Family Studies,
110119, 300 100	Nebraska Center for Research or
	Children, Youth, Families and Schools
Knoche, Lisa	Nebraska Center for Research or
,	Children, Youth, Families and Schools
Morales, Amanda Teac	ching, Learning and Teacher Education,
	Nebraska Center for Research or
	Children, Youth, Families and Schools
Schachter, Rachel	Child, Youth and Family Studies
	Nebraska Center for Research or
	Children, Youth, Families and Schools
	.
Tsymbal, Evgeny	Physics and Astronomy/
	a Center for Materials and Nanoscience
	n Two-Dimensional Ferroelectrics
\$486,189	

Unildren, Youth, Families and Schools
*Responsive Equitable System for Preparing
Early Childhood Teachers (RESPECT) across Nebraska
\$503,774 Early Educator Investment Collaborative
Buchheister, Kelley Child, Youth and Family Studies/
Nebraska Center for Research on
Children, Youth, Families and Schools
Corr Kiewra, Christine Child, Youth and Family Studies/
Nebraska Center for Research on
Children, Youth, Families and Schools
Engen-Wedin, Nancy Teaching, Learning and Teacher Education/
Nebraska Center for Research on
Children, Youth, Families and Schools
Hong, Soo-You
Nebraska Center for Research on
Children, Youth, Families and Schools
Knoche, Lisa Nebraska Center for Research on
Children, Youth, Families and Schools
Morales, AmandaTeaching, Learning and Teacher Education/
Nebraska Center for Research on
Children, Youth, Families and Schools
Schachter, Rachel Child, Youth and Family Studies/
Nebraska Center for Research on
Children, Youth, Families and Schools
Tsymbal, Evgeny Physics and Astronomy/
Nebraska Center for Materials and Nanoscience
*Quantum Phenomena in Two-Dimensional Ferroelectrics
\$486,189
\$400,109DOL
Partnership for Research and Education in Multiferroic
Polymer Nanocomposites between Tuskegee University
and University of Nebraska-Lincoln
\$627,217NSF through Tuskegee University
Dowben, Peter Physics and Astronomy/
Nebraska Center for Materials and Nanoscience
Ducharme, Stephen Physics and Astronomy/
Nebraska Center for Materials and Nanoscience
Shield, Jeffrey Mechanical & Materials Engineering/

Turner, Joseph Mechanical & Materials Engineering Integrated Analysis of the Cell Biological, Biomechanical, and Physiological Dynamics of Stomatal Guard Cells in Plants \$307,395
STTR: Ultrasonic Method to Quantify Ablative Material Liners \$450,000DoD-NAVSEA through Intelligent Automation, Inc.
PCC-3: Non-Destructive Testing (NDT) Microstructural Response Characterization and Impact \$564,399
An Integrated Experimental and Computational Approach to Discover Biomechanical Mechanisms of Leaf Epidermal Morphogenesis \$385,927
Twidwell, Dirac Jr. Enhancing Livestock Production from Rangelands in the Great Plains \$745,202
Uiterwaal, Kees Physics and Astronomy
REU Site: Lasers and Optics \$310,555NSF
Umstadter, Donald Physics and Astronomy Novel Approach to Imaging through Dense Shielding with Penetrating Radiation \$621,875
Van Den Broeke, Matthew *Developing a Structural, Morphological, and Microphysical Understanding of Left-moving Supercells \$473,485
Aeroecology as a Test-Bed for Interdisciplinary STEM Training

VanderPlas, Susan Center for Statistics and Forensic Evidence \$456,930DOC-NIST through lowa State University
Automatic Acquisition and Identification of Footwear Class Characteristics \$380,405
Variyam, Vinod Computing AF: Small: Weak Derandomizations in Time and Space Complexity \$279,995
Velez Arango, Ana Maria Entomology Exosomes as Intercellular Delivery Vehicles in Insects \$340,270USDA-NIFA through Kansas State University
Vrtiska, Mark *Southeast Kansas Mallard Wintering Ecology Study \$362,619
Vu, Hiep *Molecular Determinants of Porcine Reproductive and Respiratory Syndrome Virus Cell Tropism \$627,000
Partnership: Systemic Screening of ASFV Proteome for Identification of Immunogenic Antigens \$770,000
Development of a Broadly Protective Vaccine Against Swine Influenza Virus \$500,000
Vuran, Mehmet *Deep Complex-valued Convolutional Neural Networks (DCCNN) for Joint Spectrum Sensing and Channel Estimation \$429,998
SWIFT: LARGE: DYNAmmWIC: Dynamic mmWave Spectrum Sharing Techniques for Public Safety Communications \$500,000

cle-to-barrier Communication cle Crash Safety Facility NSF idwest Roadside Safety Facility idwest Roadside Safety Facility
ve Secure Cloud RAN Im SharingNSF sin Management and Analytics
in Management and Analytics
Biological Systems Engineering mmune Sensitization to Pain ResolutionNSF
rth and Atmospheric Sciences/ Biological Sciences and Ammonoid Turnover Across by Late Cretaceous Greenhouse
Agronomy and Horticulture ng Plant Phenomics Responses in Maize
ng Plant Phenomics Responses in Maize
ng Plant Phenomics Responses in Maize
i i i i i i i i i i i i i i i i i i i

Wang, Jian Mechanical & Materials Engineering A Metamodeling Framework for Multiscale Mechanical Modeling of Nano Architectural Crystalline-amorphous Composites \$333,267	Processes: An Integr	Biochemistry or New Stereoselective and Stereodynamic rated Chemistry-Bioengineering- X-Ray by Molecular Dynamics Approach
\$555 ₁ 207		NSF
Plasticity of High-strength Multiphase Metallic Composites \$645,019DOE through University of Michigan	Berkowitz, David	Chemistry Chemical and Biomolecular Engineering
Wang, Yingying Special Education and Communication Disorders/ Center for Brain, Biology and Behavior/ Nebraska Center for Research on		Plant Pathology ature and Regulation of the ungal Biotrophic Interface
Children, Youth, Families and Schools Neural Predictors of Speech Perception Outcomes	\$700,000	NSF
in Adults with Cochlear Implants \$460,356	Witte, Amanda	Nebraska Center for Research on Children, Youth, Families and Schools
Hughes, Michelle Special Education and Communication Disorders/		ka Multi-Tiered System of
Center for Brain, Biology and Behavior/ Nebraska Center for Research on Children, Youth, Families and Schools	\$858,808ED	through Nebraska Department of Education Nebraska Center for Research on Children, Youth, Families and Schools
Weaver, Eric Biological Sciences/Nebraska Center for Virology One Health Universal Swine Influenza Vaccines	Wolf, Marilyn SHF: Sr	Computing mall: System-Level Design
\$452,442USDA-NIFA		sistant Safety-Critical SystemsNSF
Comparative Virology Research Training Program		
\$843,579NIH-NIAID Van Etten, JamesPlant Pathology	Wortman, Samuel A Bio-based Mulch Inn	Agronomy and Horticulture ovation for Organic Spinach and Carrots
Weitzel, Derek Computing	\$475,000	USDA-NIFA
CC* Team: Great Plains Regional CyberTeam \$282,909NSF through University of Missouri-Columbia	Wragge, Annette	Special Education and Communication Disorders
White, Troy Agricultural Leadership, Education and Communication	Stat	sm Spectrum Disorders Network, te Coordinator Project
*Agricultural Automation in the Heartland	\$357,995ED	through Nebraska Department of Education
\$500,000	Wir Consul Judy	Fukamalam.
Conner, Nathan Agricultural Leadership, Education and Communication		Entomology as Master Beekeeping Farmer as and Educational Training Kits
Wiebe, Matthew Veterinary Medicine and Biomedical Sciences/	\$453,486	USDA-NIFA
Nebraska Center for Virology Engagement of Cellular Mitotic and Antiviral Signaling by Poxviral Kinases		raining for Beginning Beekeeping FarmersUSDA-NIFA
\$425,778NIH-NIAID		

Xiang, Shi-Hua	Veterinary Medicine and Biomedical Sciences/ Nebraska Center for Virology	Recover in IUGR	ering Performance and Quality -born Low-birthweight Livestock
Structure	e-Based Design of Peptide Entry Inhibitors	\$500,000	
	Against Ebola Virus Infection	Petersen, Jessica	
\$468,183	NIH-NIAID		
		Yin, Yanbin	Food Science a
Xu, Lisong	Computing		Nebraska Food for
FMitF: Track 1: Flo	w Modeling Meets Software Verification: Redesign		s Discovery of Anti-CRISPR Oper
Internet Conge	estion Control for Performance and Verifiability		Human Gut Microbiome
	NSF		
Bagheri, Hamid	Computing	Zhou, Yuzhen	
CNS Core	: Small: Efficient Interoperability Testing of		nics Resources for Tropical Peren
	neous Network Protocol Implementations		ally Important to the United Stat
		\$401,112	
	Computing		
	. 0	Yoder, Aaron	Biological Syster
Xu, Xiaoshan	Physics and Astronomy/		Nebraska AgrAbility
,	Nebraska Center for Materials and Nanoscience	\$723,840	
Non-V	olatile Active Control of Spin Transport	Frecks, Nancy	West Central Research and Ex
	nterfaces with Molecular Ferroelectrics	Riley, Mark	Biological Syster
		Yu, Bin	Biolog
Yang, Jinliang	Agronomy and Horticulture		Center for Plant Scie
Leveragir	g the Naturally Occurring Maize-Microbe		unctional Mechanism of the DSP
Symbi	otic Partnership to Improve Maize NUE		turation of Plant Small Nuclear R
\$849,000	USDA-NIFA		
Schachtman, Danie	el Agronomy and Horticulture	Zhang, Chi	Biolo
			Center for Plant Scie
9	Fixed Deleterious Alleles for Genome-Enabled		
	cronutrients Improvement in Maize	Yu, Hongfeng	
\$500,000	USDA-NIFA	Vis	t Continuous Representations for ualization of Complex Data
Yang, Yiqi	Textiles, Merchandising and Fashion Design/	\$450,000	• • • • • • • • • • • • • • • • • • • •
	Biological Systems Engineering		
	from Chicken Feathers for Textile Applications	Yu, Jiujiu	Nutrition and He
	Engineered Pilot-Scale Production		Nebraska
\$464,434	USDA-NIFA	B	Prevention of Ob
v	4		Exosome-Like Nanoparticles and
Yates, Dustin	Animal Science		ct on the Gut Microbiome in Obe
	tement of Inflammation as a Means		Earl Saigner
	nbat Heat Stress in Finishing Livestock	Auchtung, Jennifer	Food Science aı
	USDA-NIFA		
,	Animal Science		Prevention of Ok
Schmidt, ly	Animal Science		

III IUGI	R-born Low-birthweight Livestock
	USDA-NIFA Animal Science
Yin, Yanbin	Food Science and Technology/ Nebraska Food for Health Center
Bioinformatio	s Discovery of Anti-CRISPR Operons in Human Gut Microbiome
Economic	nics Resources for Tropical Perennial Crops ally Important to the United States USDA-ARS
Yoder, Aaron	Biological Systems Engineering Nebraska AgrAbility
Frecks, Nancy	West Central Research and Extension Center Biological Systems Engineering
in the 3' Ma	Biological Sciences/ Center for Plant Science Innovation unctional Mechanism of the DSP1 Complex turation of Plant Small Nuclear RNAs
Understand the Fint the 3' Ma	Center for Plant Science Innovation unctional Mechanism of the DSP1 Complex
Understand the Fin the 3' Ma \$682,608	Center for Plant Science Innovation unctional Mechanism of the DSP1 Complex turation of Plant Small Nuclear RNAsNSFBiological Sciences/
Understand the Fin the 3' Ma \$682,608	Center for Plant Science Innovation unctional Mechanism of the DSP1 Complex turation of Plant Small Nuclear RNAs
Understand the Fin the 3' Ma \$682,608	Center for Plant Science Innovation unctional Mechanism of the DSP1 Complex turation of Plant Small Nuclear RNAs

Prevention of Obesity Diseases

Yuill, David	Durham School of Architectural Engineering and Construction
in Resident	naracterize Fault Prevalence ial Comfort SystemsDOE
*The Milk Exosome - Bac	n and Health Sciences/Nebraska Center for the Prevention of Obesity Diseases cterial Vesicle - Host Health Triad USDA-NIFA
Milk for U \$630,000 Guo, Jiantao	gineering Nanoparticles in se in Drug Delivery
\$500,000	n of Antibiotic-Resistant Gut Pathogens
	some and Cargo Tracking Mouse DHHS-NIH
Ubiquitinati	Plant Pathology Ile-localized Lys63-linked on in Plant ImmunityNSF
\$800,000	Civil and Environmental Engineering and Monitoring for Dry Storage Canister DOE Durham School of Architectural Engineering and Construction
Agin \$250,000	sis and Probabilistic Prognosis of g Plastic PipeDOT-PHMSACivil and Environmental Engineering

Zuhlke, Craig E	lectrical and Computer Engineering
*Next Generation of High-po	wer Ultrashort Pulse Laser for
Transformative Surf	ace Functionalization
\$667,240	DoD-ONR-DURIP
Argyropoulos, Christos E	lectrical and Computer Engineering
	Mechanical & Materials Engineering
Ianno, Natale E	lectrical and Computer Engineering
Shield, Jeffrey	Mechanical & Materials Engineering
Liquid Propellants Using F Processing with App \$553,821	Properties of Surfaces to emtosecond Laser Surface lications to Fuel Tanks
Zupan, Alexander	Mathematics
Interactions of 3- and 4	4-Dimensional Topology
\$299,346	NSF

Early Career Awards

Active awards, July 1, 2022-June 30, 2023

* Indicates new in 2022-2023

NSF CAREER Grants

National Science Foundation CAREER grants are awarded only to untenured junior faculty. These grants recognize research and education "of the highest quality and in the broadest sense." CAREER grants are unique in requiring a four- to five-year plan for the scientist's development as both a researcher and an educator.





Alexandrov, Vitali
Chemical and Biomolecular Engineering
CAREER: Advancing Mechanistic Understanding of
Nanocrystal Dissolution in Aqueous Environments
\$520,244NSF



Bao, Wei
Electrical and Computer Engineering
CAREER: Towards Room-temperature Quantum
Simulators Enabled by Halide Perovskites
\$756,713......NSF









Duncan, Brittany
Computing
CAREER: Drones in Public:
Foundational Interaction Research
\$599,647NSF



Eichhorn, Catherine
Chemistry
CAREER: Molecular Mechanisms of
Ribonucleoprotein Assembly
\$1,048,975......NSF

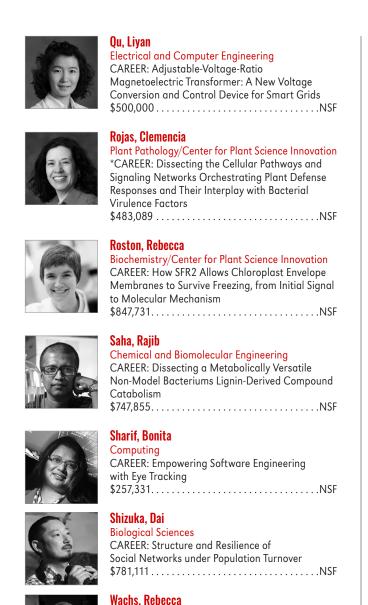








	Grifo, Eloisa Mathematics *CAREER: Problems in Commutative and Homological Algebra \$425,000	Males, Lorraine Teaching, Learning and Teacher Education CAREER: Examining Prospective Secondary Mathematics Teachers Learning to Use Curriculum Materials to Plan and Enact Instruction \$628,995
	Guo, Hongzhi Computing *CAREER: Long-Range Near Field Communication for Ultra-Dense Internet of Things \$499,337	Moore, Keegan Mechanical & Materials Engineering *CAREER: Foundations for Understanding the Long-term Evolution and Dynamics of Nonlinearities
	Holland, Kathryn Psychology CAREER: The Efficacy of Sexual Assault Mandatory Reporting Policies \$502,113	\$727,410
	Iverson, Nicole Biological Systems Engineering CAREER: Extracellular Hydrogen Peroxide and Nitric Oxide Detection and Quantification Via Biocompatible Carbon Nanotubes \$550,000	\$593,240
The state of the s	Jeffries, Jack Mathematics CAREER: Differential Operators and p-Derivations in Commutative Algebra \$400,000	Obata, Toshihiro Biochemistry/Center for Plant Science Innovation CAREER: Establishing the Roles of Multi-Enzyme Complexes in Metabolic Network Regulation \$746,955
	Libault, Marc Agronomy and Horticulture/ Center for Plant Science Innovation CAREER: Exploring the Transcriptional Regulatory Networks Controlling the Early Stages of Legume Nodulation \$573,573	Park, Jae Sung Mechanical & Materials Engineering CAREER: Unraveling Predictive Dynamics and Multiscale Linkage in Turbulence for Flow Control \$506,780
	Louis, Joe Entomology CAREER: Deciphering Sorghum Resistance Mechanisms to Phloem-Feeding Aphids \$1,515,525NSF	Pedrigi, Ryan Mechanical & Materials Engineering CAREER: Characterizing the Mechanobiological Response of Endothelial Cells to Ultrasound \$543,020



Biological Systems Engineering

Low Back Pain

CAREER: Alternative Non-Opioid Therapies for





Yesselman, Joseph
Chemistry
CAREER: Determining the Fundamental Rules of
RNA Tertiary Contact Formation
\$1,235,574......NSF



Yin, YanbinNebraska Food for Health Center
CAREER: Evolutionary Genomics of Enzymes for
Complex Carbohydrate Metabolism
\$656,429NSF





Zhang, Limei
Biochemistry/Nebraska Center for Redox Biology/
Nebraska Center for Integrated Biomolecular
Communication
CAREER: Structural and Mechanistic Studies on an
Iron-Sulfur Cluster-based Nitric Oxide Sensor

Department of Energy Early Career Research Program

DOE's Early Career Research Program supports the development of individual research programs of outstanding scientists early in their careers and stimulates research careers in the disciplines supported by the DOE Office of Science.



Dishari, Shudipto Chemical and Biomolecular Engineering EARLY CAREER: Porin Inspired Ionomers with SubNM Gated Ion Channels for High Ion Conductivity and Selectivity DOE

Office of Naval Research Young Investigator Program

The Office of Naval Research Young Investigator Program supports academic scientists and engineers who are in their first or second full-time tenure-track academic appointment and who show exceptional promise for doing creative research.





Arts and Humanities Awards \$250,000 or More

Active awards, July 1, 2022-June 30, 2023

* Indicates new in 2022-2023

Cohen, Matt

English/Center for Digital Research in the Humanities

Walt Whitman Archive Infrastructure Revitalization
\$349,856NEH
6/1/20 - 10/31/23
Barney, Brett University Libraries/Center for Digital
Research in the Humanities
Dalziel, KarinCenter for Digital Research in the Humanities
Price, Kenneth English/Center for Digital
Research in the Humanities



With a nearly \$350,000 grant from the National Endowment for the Humanities, Matt Cohen, professor of English, and Kenneth Price, Hillegass University Professor of American literature, are rebuilding the Walt Whitman Archive website, implementing a modern framework and repackaging site content for easier reuse. The long-term goal is

to enhance the archive's accessibility and sustainability by making it easier for users to search and organize materials on the site, which, at nearly 25 years old, is the leading resource for Walt Whitman scholars. The team is improving the website's digital architecture by changing the programming framework; developing a machine-readable interface for the website's code, images and metadata; revising files to improve the metadata; and strengthening existing metadata through a new search engine. The archive is published by the Center for Digital Research in the Humanities.

Dawes, Kwame English



Under the leadership of Kwame Dawes, George W. Holmes University Professor of English and Glenna Luschei Editor of Prairie Schooner, the African Poetry Book Fund is using a nearly \$350,000 grant from the Poetry Foundation to study poetry book distribution in Africa. The project team's goal is to better understand the complexities of poetry and

poetry publishing on the African continent. The researchers are examining bookseller networks, international trade, literary venues, programming and more to develop a more comprehensive picture of Africa's book distribution landscape. The project advances the African Poetry Book Fund's larger goal of making its titles available to a wider audience in Africa. The fund, which Dawes established in 2012, promotes and advances the development and publication of the poetic arts.

African Poetry Digital Portal		
\$750,000	Andrew W. Mellon Foundation	
6/23/21 - 6/30/24		
Dawes, Lorna	University Libraries	

Professor Dawes and Lorna Dawes, associate professor of University Libraries, are leading an international team in expanding the African Poetry Digital Portal. This online tool documents the work of African poets and provides digital access to related creative and intellectual artifacts, materials and research. The team is using a \$750,000 grant from the Andrew W. Mellon Foundation to launch the portal into its next phase to expand research and scholarship related to African poetry. They also are collaborating with other institutions to create a digital collections hub that provides access to materials held by institutions worldwide. The initiative is aimed at bringing to light the rich and sophisticated poetic practices and traditions that have long existed in African societies but are not always well understood.

Jacobs, Margaret

History/Center for Great Plains Studies/ Center for Digital Research in the Humanities

Genoa Indian School Digital Reconciliation Project
\$449,899......NEH
6/1/19 - 5/31/25
Lorang, Elizabeth......University Libraries/Center for Digital
Research in the Humanities



With funding from the National Endowment for the Humanities, Margaret Jacobs, Charles J. Mach Professor of history and director of the Center for Great Plains Studies, and Elizabeth Lorang, associate professor of University Libraries, are compiling, digitizing and making accessible records and other materials from the Genoa Indian Industrial School in

Nebraska, one of more than 150 boarding schools designed to assimilate Indigenous American people into Euro-American culture near the end of the 19th century. They are working closely with Nancy Carlson and the Genoa U.S. Indian School Foundation in Genoa. The university's Center for Digital Research in the Humanities hosts the Genoa Indian School Digital Reconciliation Project. In order to move the project forward with sensitivity and respect, Jacobs and Lorang are working with an advisory council that includes representatives from the Ponca, Pawnee, Omaha and Winnebago nations and UNITE, the university's Native American student group.

Jagodinsky, Katrina

History/Center for Digital Research in the Humanities

Petitioning for Freedom:
Habeas Corpus and Liberty in the American West
\$529,410......NSF
6/1/20 - 8/31/23



With a grant from the National Science
Foundation, historian Katrina Jagodinsky is
exploring how various marginalized groups –
immigrants, women, and indigenous and
enslaved people, for example – used habeas
corpus, a longstanding legal principle enabling
prisoners to challenge the legality of their
detentions, to claim freedom and establish

their rights between 1812 and 1924. In collaboration with the Center for Digital Research in the Humanities, Jagodinsky, the Susan J. Rosowski Associate Professor of history, is developing a first-of-its-kind digital database archiving roughly 6,000 previously unpublished habeas petitions, which will be searchable by demographic.

Jewell, Andrew Center for Digital Research in the Humanities



Andrew Jewell, professor of University Libraries and co-director of the Center for Digital Research in the Humanities, is leading the creation of a digital library of American novelist Willa Cather's literary manuscripts. The library will include high-resolution images of each document, extensive metadata about each item and expert-authored analyses of the

manuscripts. These resources will advance scholarship on Cather because her literary manuscripts currently are distributed across a range of repositories and largely ignored by scholars and students of Cather's writing. The digital library will integrate with the thousands of items that constitute the university's Willa Cather Archive. The project is supported by the National Endowment for the Humanities.

Thomas, William History



With a \$1 million grant from the Andrew W. Mellon Foundation, historians William Thomas, Katrina Jagodinsky and Jeannette Eileen Jones, working with scholars from the College of Law, are launching a teaching, research and collaboration hub that will position Nebraska as a national leader in education and scholarship focused on the relationship

between U.S. law and race in American history. The project will help students and the public understand how marginalized groups in American history used the law to contest and advance their rights. The project features an entry-level, team-taught course — the first of its kind at the university — and an open educational repository of digital and legal research tools, developed in collaboration with the Center for Digital Research in the Humanities.

Weakly, Laura Center for Digital Research in the Humanities



Laura Weakly, metadata encoding specialist, is guiding the university's long-term commitment to lead the United States Newspaper Program and the National Digital Newspaper Program for the state of Nebraska. With funding from the National Endowment for the Humanities, the university's Center for Digital Research in the Humanities will select,

digitize and send to the Library of Congress approximately 100,000 pages of Nebraska newspapers published between 1854 and 1963. They will be included in Chronicling America, a website providing access to information about historic newspapers and select digitized newspaper pages.

Wilkinson, Ashley Center for Great Plains Studies

Ashley Wilkinson is curator and director of the Great Plains Art Museum, part of the university's Center for Great Plains Studies. The museum received a donation of 69 pieces of artwork from the Mark and Carol Moseman collection, which is focused thematically on humankind's relationship to the land. Both Mosemans grew up in small-town Nebraska on family farms and observed over time the shift from traditional farming practices to mechanized agriculture. Their art collection is intended to help document this change, and they feel the Great Plains Art Museum is uniquely positioned to showcase many of these pieces.

Wisnicki, Adrian

University Libraries/Center for Digital Research in the Humanities



Adrian Wisnicki, associate professor of English, is advancing work on the Collaborative Organization for Virtual Education, or COVE, project, an open access platform that serves as a low-cost, scholar-led alternative to commercial publishing platforms. The platform, which includes texts from the Renaissance until the early 20th

century, allows educators to create customized anthologies of materials for students. With National Endowment for the Humanities funding, the team will add metadata to COVE, optimize the platform for mobile devices and accessibility, and add additional texts.

Arts and Humanities Awards \$50,000 to \$249,999

Active awards, July 1, 2022–June 30, 2023

^{*} Indicates new in 2022–2023

Cohen, Matt English/Center for Digita Research in the Humanities *Charles Chesnutt's Cleveland Archives: Phase One	l S
\$159,792 National Historic Publications & Records Commission Price, Kenneth	ıl
Dalziel, Karin University Libraries/Center for Digita Research in the Humanities Getting the Latest Scoop: A New Tool to Expand Access to Online Newspaper Collections \$115,653	n s
Dawes, Kwame *Academy of American Poets Capacity-Building Grant \$50,000	/ s
American Life in Poetry \$170,470 Poetry Foundation	n
African Poetry Digital Project \$150,000	
Ducey, Carolyn *Black American Quiltmaking: Our Voice Our Story \$79,389	S
Hoff, Michael Art, Art History and Design Antiochia ad Cragum Excavations: 2019 Season \$145,119	

Homestead, Melissa *Institute for Higher Education Faculty on Willa Cather:	h
Place and Archive \$156,581	Н
Jones, Jeannette Eileen Center for Digital Research in the Humanitie To Enter Africa from America: The United States, Africa and the New Imperialism, 1862-1919 \$216,106	S
Mueller, Max *NEH Fellowship - Wakara's America: A Native and American History of the West \$60,000	S
Price, Kenneth Research in the Humanitie A Life in Letters: Walt Whitman's Complete Correspondence \$130,544 National Historical Publications and Records Commission McMullen, Kevin	S n al
Walt Whitman's Journalism: Finding the Poet in the Brooklyn Daily Times \$249,941	4
The Complete Correspondence of Charles W. Chesnutt \$152,648National Archives and Records Administratio Cohen, MattEnglish/Center for Digito Research in the Humanitie	ıl
Fame and Infamy: Walt Whitman's Old-Age Correspondence \$92,111 National Historical Publications and Record Commission through University of low McMullen, Kevin English/Center for Digito Research in the Humanitie	a al
Seger, Casey Center for Great Plains Studie Enhancing Access and Preservation at the Great Plains Art Museum \$177,000	•

Arts and Humanities Awards \$5,000 to \$49,999

Active awards, July 1, 2022-June 30, 2023

^{*} Indicates new in 2022-2023

Castro, Mary Alice Textiles, Merchandising and Fashion Design Global Textiles Storage Assessment in University of Nebraska- Lincoln's Historic Costume and Textile Collection \$10,000NEH Starkey, SandraTextiles, Merchandising and Fashion Design
Dawes, Kwame Literary Arts Emergency Fund: APBF Publication Subvention \$10,000Andrew W. Mellon Foundation through Academy of American Poets/National Book Foundation-Literary Arts Emergency Fund
Literary Arts Emergency Fund for <i>Prairie Schooner</i> Production \$5,000Andrew W. Mellon Foundation through Academy of American Poets/National Book Foundation-Literary Arts Emergency Fund
Dotan, Beth *NE Stories of Humanity - Nebraska Holocaust Survivor and WWII Veteran Web Portal \$5,000
Engen-Wedin, Nancy Lied Center for Performing Arts *Kinetic Light Intersections: Access, Dance, Disability and Race \$20,000
Ajijaak on Turtle Island - Arts for ALL \$20,000NEA
Ganser, Timothy Shubert Foundation Theatre Grant \$15,000
Heitman, Carrie Center for Digital Research in the Humanities Humanities Without Walls Pass-through Grants \$20,000

Homestead, Melissa

Le Sueur, James

English/Center for Digital Research in the Humanities

History

Society for the Study	of American Women Writers
Digital	Recovery Hub
\$49,450	NEH
	. University Libraries/Center for Digital
,	Research in the Humanities
Rau, Emily Center	for Digital Research in the Humanities
, , , , , , , , , , , , , , , , , , ,	3
Kohen, Ari	Political Science/Center for Digital
Konon, Arr	Research in the Humanities
	NGSGALGII III CIIG HUIHAIIICIGS
The Nebraska Stories of H	lumanity: Holocaust Survivors and
WWII Vetera	ns Educational Portal

Dotan, Beth	Teaching, Learning and Teacher Education/ Center for Digital Research in the Humanities
NE Stories of H	umanity - Nebraska Holocaust Survivor and

\$10,000...... Humanities Nebraska

	WWII Veteran Web Portal
\$8,000	Jewish Federation of Omaha Foundation
Dotan, Beth	Teaching, Learning and Teacher Education/
	Center for Digital Research in the Humanities

	A Feature Documentary Film
\$5,000	Humanities Nebraska
Levy, Leslie	International Quilt Museum
*NI - l l-	a Arts Council International Quilt Museum

Basic Support Grant

Four Seasons of COVID Pandemic on the Plains:

Muchiri, Nganga	English/Center for Digital Research in the Humanities
\$21,841	Nebraska Arts Council

Recovering the Histories	of Land Treaties in East and Southern Africa
\$25,000	American Council of Learned Societies
Wisnicki, Adrian	English/Center for Digital
	Research in the Humanities

Ramsay, Stephen English/Center for Digital Research in the Humanities

Digital Notation Across the Movement-Based Arts	
\$15,800NEH	
Pytlik Zillig, Brian Center for Digital Research in the Humanities	

Integrat	Erine University Libraries Librarian Curriculum Developers: Building Capacity to te Information Literacy Across the University (ALCD) Institute of Museum and Library Services through Purdue University
Weller, Susar	university of Nebraska State Museum
	Exploring a Square Meter of Prairie Exhibit
\$7,500	Humanities Nebraska
Wilkinson, As	Center for Great Plains Studies *Threads & Trails
\$10,000.00.	Elizabeth Firestone Graham Foundation
	reads & Trails: Contemplations of Our HerstoriesHumanities Nebraska
\$5,000	*Threads & Trails Lincoln Community Foundation
Wisnicki, Adr	rian English/Center for Digital Research in the Humanities
	ing BIPOC Voices from the Victorian Periodical PressResearch Society for Victorian Proposals through Purdue University



NUtech Ventures' mission is to facilitate the commercialization and practical use of innovations generated through the research activities at the University of Nebraska-Lincoln. NUtech does this by identifying, evaluating, protecting, marketing and licensing the university's intellectual property to promote economic development and improve the auality of life.

Patents Issued in 2022-2023

Recognition for faculty, other Nebraska-affiliated colleagues and non-university personnel who received patents for their inventions July 1, 2022-June 30, 2023 (patents are listed by issue date)

Lance Pérez, Eric Psota, Electrical and Computer Engineering; Ty Schmidt, Benny Mote, Animal Science

Title: Animal Detection Based on Detection and Association of Parts

Date: 7/19/2022 Number: 11393088 **Country:** United States

Thomas Frederick, Shane Farritor, Eric Markvicka, Mechanical & Materials Engineering; Dmitry Oleynikov, Surgery

Title: Robotic Device with Compact Joint Design and Related Systems

and Methods **Date:** 8/9/2022 Number: 11406458 Country: United States

Yuris Dzenis, Mechanical & Materials Engineering

Title: Strong and Tough Continuous Nanofibers

Date: 8/16/2022 Number: 11414790 **Country:** United States

Shane Farritor, Mark Reichenbach, Mechanical & Materials

Engineering

Title: Improved Gross Positioning Device and Related Systems and

Methods

Date: 9/20/2022

Number: ZL201780082263.3

Country: China

Patricia Sollars, Gary Pickard, Veterinary Medicine and Biomedical

Sciences; Ekaterina Heldwein, Gregory Smith

Title: Non-Neuroinvasive Viruses and Uses Thereof

Date: 9/20/2022 Number: 11447753 Country: United States

Carl Nelson, Raul Gonzalo Romero, Mechanical & Materials

Engineering

Title: Tool Exchange System for a Surgical Robot

Date: 9/20/2022 Number: 11446046 Country: United States

Melanie Simpson, Joseph Barvcki, Biochemistry

Title: Castration-Resistant Prostate Cancer

Date: 10/25/2022 Number: 11478457 **Country:** United States

Paul Black, James Allen, Biochemistry

Title: Biological Remediation of Groundwater Using an Algal

Photobioreactor System Date: 11/1/2022 Number: 11485657 **Country:** United States

Thomas Frederick, Shane Farritor, Eric Markvicka, Jack Mondry, Joe Bartels, Mechanical & Materials Engineering

Title: Local Control Robotic Surgical Devices and Related Methods

Date: 11/1/2022 Number: 11484374 Country: United States

Michael Sealy, Guru Madireddy, Haitham Hadidi, Cody Kanger,

Mechanical & Materials Engineering

Title: Hybrid Additive Manufacturing Method

Date: 11/8/2022 Number: 11491718 Country: United States

Shane Farritor, Joseph Palmowski, Mechanical & Materials Engineering

Engineering

Title: Single-Arm Robotic Device with Compact Joint Design and

Related Systems and Methods

Date: 11/22/2022 **Number:** 11504196 **Country:** United States

Nicholas Palermo, Computing; Laura Hansen, Sandor Lovas

Title: 14-3-3 Targeting Peptides for Cancer Treatment

Date: 12/6/2022 Number: 11518784 **Country:** United States

Wei Qiao, Liyan Qu, Jun Wang, Electrical and Computer Engineering

Title: Detecting Faults in Wind Turbines

Date: 12/6/2022 Number: 11519821 Country: United States

Thomas Frederick, Shane Farritor, Eric Markvicka, Joe Bartels, Jack Mondry, Mechanical & Materials Engineering

Title: Single Site Robotic Device and Related Systems and Methods

Date: 12/20/2022 **Number:** 11529201 **Country:** United States

Barry Cheung, Anuja Bhalkikar, Christopher Marin, Tamra Fisher,

Chemistry

Title: Ozone-Mediated Synthesis of Nanostructures

Date: 2/14/2023 **Number:** 11577956 **Country:** United States

Thomas Frederick, Shane Farritor, Mechanical & Materials Engineering

Title: Quick Release End Effectors and Related Systems and Methods

Date: 2/14/2023 **Number:** 11576695 **Country:** United States

Donald Weeks, Biochemistry; Thomas Clemente, Agronomy and

Horticulture; Razvan Dumitru, Paul Feng, Stanislaw Flasinski

Title: Improved Production and Yield Capacity of Transgenic Plants Expressing a Genetically Engineered Version of the Dicamba

Monooxygenase Gene (aka, oxygenase_{DIC})

Date: 2/28/2023 **Number:** AR 096405 B2 **Country:** Argentina

Shane Farritor, Ryan McCormick, Tyler Wortman, Eric Markvicka, Amy Lehman, Mechanical & Materials Engineering; Dmitry Oleynikov,

Surgery; Kyle Strabala

Title: Robotic Surgical Devices, Systems and Related Methods

Date: 2/28/2023 Number: 11595242 Country: United States

Shane Farritor, Jason Dumpert, Amy Lehman, Mechanical & Materials

Engineering; Mark Rentschler

Title: Magnetically Coupleable Robotic Devices and Related Methods

Date: 3/7/2023 Number: 3068216 Country: Canada

Jinsong Huang, Wei Wei, Mechanical & Materials Engineering

Title: Monolithic Integration of Hybrid Perovskite Single Crystals with

Silicon for Highly Sensitive X-ray Detectors

Date: 3/21/2023 Number: 11607870 Country: United States

Shane Farritor, Jason Dumpert, Mechanical & Materials Engineering; **Yutaka Tsutano**, Computing; Erik Mumm, Philip Chu, Nishant Kumar

Title: Robotic Surgical Devices, Systems and Related Methods

Date: 4/4/2023 **Number:** 11617626 **Country:** United States

Azadeh Mostafavi, Carina Russell, Ali Tamayol, Mechanical

& Materials Engineering; **Tyrell Williams**, Biological Systems Engineering; Adnan Memic, Tuerdimaimaiti Abudula, Mehdi Narbat, Mohammed Abdelwahab, Asija Memic, Ammar Melaibari, Ahmed AlShahrie, Numan Salah

Title: 3D Printing of Polymeric Bioceramics for the Treatment of Bone

Defects

Date: 4/18/2023 Number: 11628069 Country: United States

Thomas Frederick, Shane Farritor, Mechanical & Materials Engineering

Title: Quick-Release Tool Coupler and Related Systems and Methods

Date: 4/18/2023

Number: ZL201780064487.1

Country: China

Ozan Ciftci, Food Science and Technology

Title: Bioavailable Curcumin Nanoparticles and Methods of Making

Date: 5/23/2023 **Number:** 11654119 **Country:** United States

Peter Dowben, Physics and Astronomy; Andrew Marshall, Nishtha

Sharma, Dmitri Nikonov

Title: Magnetoelectric Inverter

Date: 5/23/2023 **Number:** 11658663 **Country:** United States

Kristy Kounovsky-Shafer, Cody Masters, Jocelyn Dolphin, April Maschmann, Chemistry

Title: Devices and Methods for Eluting and Concentrating Large DNA

Molecules *Date:* 6/6/2023 *Number:* 11668631 *Country:* United States

Yongfeng Lu, Electrical and Computer Engineering; Michael Nastasi, Center for Energy Sciences Research; Bai Cui, Fei Wang, Mechanical & Materials Engineering

Title: Systems for and Methods for Improving Mechanical Properties

of Ceramic Material

Date: 6/6/2023

Number: 11667581

Country: United States

Thomas Frederick, Shane Farritor, Eric Markvicka, Mechanical &

Materials Engineering

Title: Local Control Robotic Surgical Devices and Related Methods

Date: 6/14/2023 **Number:** 3943255

Countries: France, Germany, United Kingdom

Nicholas Palermo, Computing; Laura Hansen, Sandor Lovas

Title: 14-3-3 Targeting Peptides for Cancer Treatment

Date: 6/27/2023 **Number:** 11685766 **Country:** United States

2022-2023 License Agreements

Recognition for **faculty** and **other Nebraska-affiliated colleagues** whose technologies formed the basis of licensing agreements with industry partners July 1, 2022–June 30, 2023

P. Stephen Baenziger, Mitchell Montgomery, Greg Dorn, Katherine Frels

Agronomy and Horticulture

Agreement Number: 2022-0395A

Technology: Triticale

Agreement Number: 2022-0396A

Technology: Barley

Agreement Number: 2023-0268A

Technology: Triticale

Agreement Number: 2023-0316A

Technology: Wheat

P. Stephen Baenziger, Mitchell Montgomery, Greg Dorn, Carol Speth

Agronomy and Horticulture

Agreement Number: 2023-0267A

Technology: Barley

P. Stephen Baenziger, Jerry Bohlman, Mitchell Montgomery, Greg Dorn, Richard Little, Chris Hoagland, Katherine Frels

Agronomy and Horticulture

Agreement Number: 2023-0449A Technology: Wheat, Triticale, Barley

Paul Blum

Biological Sciences

Agreement Number: 2023-0225A

Technology: Enzyme

Paul Blum, Derrick White, Raghuveer Singh

Biological Sciences

Agreement Number: 2023-0148A Technology: Mutant Microorganism

Michael Burton, Kwakiutl Dreher, William Thomas

Textiles, Merchandising and Fashion Design/English/History

Agreement Number: 2023-0454A

Technology: The Bell Affair

Aaron Clare

Natural Resources

Agreement Number: 2023-0064A Technology: Hazelnut Variety Agreement Number: 2023-0065A Technology: Hazelnut Variety

Ismail Dweikat, John Rajewski

Agronomy and Horticulture

Agreement Number: 2023-0136A Technology: Sorghum x Sudan Grass

George Graef

Agronomy and Horticulture

Agreement Number: 2023-0007A
Technology: Soybean Varieties
Agreement Number: 2023-0008A
Technology: Soybean Variety
Agreement Number: 2023-0226A
Technology: Soybean Varieties
Agreement Number: 2023-0313A
Technology: Soybean Variety
Agreement Number: 2023-0373A
Technology: Soybean Variety

Ming Han, Guigen Liu

Electrical and Computer Engineering

Agreement Number: 2023-0140A **Technology:** Fiber Optics Technologies

Jiong Hu, Seunghee Kim, Miras Mamirov, Amin Hosseinizadeh

Civil and Environmental Engineering Agreement Number: 2022-0295A

Technology: Recycled Concrete Aggregate

Srivatsan Kidambi, Stephen Hayward

Chemical and Biomolecular Engineering

Agreement Number: 2023-0277A

Technology: Drug and Gene Delivery Substrate

Srivatsan Kidambi

Chemical and Biomolecular Engineering Agreement Number: 2023-0279A

Technology: Beasts Platform

James Le Sueur

History

Agreement Number: 2023-0110A Technology: Art of Dissent Film Agreement Number: 2023-0214A Technology: Art of Dissent Film

Joe Luck, Rodney Rohrer

Biological Systems Engineering Agreement Number: 2023-0261A Technology: Nozzle Control

Asit Pattnaik, Fernando A. Osorio, Fangrui Ma, Hiep Vu

Veterinary Medicine and Biomedical Sciences/Biological Sciences/

Animal Science

Agreement Number: 2023-0218A Technology: Porcine Vaccine

Santosh Pitla, Ian Tempelmeyer, Paul Jasa, Roger M. Hoy

Biological Systems Engineering Agreement Number: 2023-0192A Technology: Pivoting Robotic Planter

Dipak Santra, Glen Frickel

Agronomy and Horticulture/Panhandle Research and Extension

Center

Agreement Number: 2022-0493A

Technology: Millet

Daniel D. Snow, Chittaranjan Ray, Arindam Malaker

Nebraska Water Center/Civil and Environmental Engineering

Agreement Number: 2023-0102A Technology: Soil Amendment/Additive

Carlos Urrea

Agronomy and Horticulture

Agreement Number: 2023-0030A

Technology: Pinto Bean

Agreement Number: 2023-0211A

Technology: Great Northern Bean

Agreement Number: 2023-0212A

Technology: Great Northern Bean Agreement Number: 2023-0342A

Technology: Pinto Bean

Agreement Number: 2023-0347A Technology: Great Northern Bean

Anne Vidaver, James Van Etten

Plant Pathology

Agreement Number: 2023-0209A

Technology: Material

Shi-Hua Xiang

Veterinary Medicine and Biomedical Sciences

Agreement Number: 2023-0297A

Technology: HIV Vaccine Development Method

Changmou Xu, Rui Huang, Xiaoqing Xie

Food Science and Technology

Agreement Number: 2023-0301A

Technology: Aronia Berry Juice

International Ouilt Study Center

International Quilt Museum

Agreement Number: 2023-0082A

Technology: Quilt Works

National Science Foundation Innovation Corps Teams

The National Science Foundation's Innovation Corps (I-Corps) Program is designed to spur translation of fundamental research to the marketplace, spark collaboration between academia and industry and train NSF-funded faculty, students and other researchers in innovation and entrepreneurship skills. NUtech Ventures, the university's intellectual property and commercialization unit, supports Husker researchers in learning about and preparing to apply for the program. I-Corps awards are worth \$50,000 and enable recipients to participate in real-world, hands-on learning focused on how to evaluate commercial opportunity around an innovation.

Shubhendu Bhardwaj

Electrical and Computer Engineering

I-Corps: Smart Textile Charging Platform for Wearable and Portable Devices

Clemencia Rojas

Plant Pathology

I-Corps: Deployment of Antibacterials as Seed Treatments

Daniel Schachtman

Agronomy and Horticulture/Center for Plant Science Innovation/ Center for Biotechnology

I-Corps: Combinatorial Phage Display for the Development of Specific, Single Target Biopesticides against Invasive Plant Pathogens

Li Tan

Mechanical & Materials Engineering

I-Corps: Room Temperature Titanium Extraction from Low-Cost Pigments

Creative Activity

Faculty who created, performed or produced works in the fine and performing arts and architecture, literature, television and film, or digital/software design July 1, 2022–June 30, 2023

Submitted by faculty, chairs/heads or deans

Byron Anway

Art, Art History and Design

Artist, solo painting and drawing exhibition. "Ghosts of Landscape and Memory." Osborne Family Gallery, University of Nebraska at Omaha, Omaha, NE.

John R. Bailey Glenn Korff School of Music

Conductor, International Flute Orchestra. Four-concert tour of southern France. Churches and conservatories in Nice, Aix-en-Provence, Lyon, Chamonix.

Conductor, National Flute Association Past Presidents' Flute Choir. Tribute concert to founding president; closing gala concert. National Flute Association Annual National Convention, Chicago, IL.

Performer, solo flute recital and pedagogy lecture. Rutgers University, New Brunswick, NJ.

Diane Barger

Glenn Korff School of Music

Performer, clarinet. "Amicitia Duo Recital." International Clarinet Association ClarinetFest®, Denver, CO.

Justin Bradley Computing

Cast member, documentary film. "Unknown: Killer Robots." Netflix.

Michael H. Burton Textiles, Merchandising and Fashion Design

Producer, animated film. "The Bell Affair." Random Media, Los Angeles, CA.

Digital artist, invited exhibition. "Neil's Fall." Vision Seen in the Air. The National Willa Cather Center, Red Cloud, NE.

Producer, animated film. "The Bell Affair." Golden State Film Festival. TCL Chinese Theater, Los Angeles, CA.

Artist/producer, animated film. "The Diary of Michael Shiner." With Kwakiutl Dreher, director; William G. Thomas III, writer/historian. Lincoln, NE.

Santiago Cal

Art, Art History and Design

Artist, solo sculpture exhibition. "Incomplete and an Earlier Version." Wakeley Gallery, Illinois Wesleyan University, Bloomington, IL.

Artist, solo sculpture exhibition. "Sensitive to the Telling." Norfolk Art Center. Norfolk, NE.

Artist, solo sculpture exhibition. "Santiago Cal 1995-2023." Taxonomies Gallery (experimental space), Omaha, NE.

Artist, sculpture exhibition. "Santiago Cal." Norfolk Art Center, Norfolk. NE.

Artist, video/short film. "Portal." Post Façade, international short film series. Maple St. Construct, Omaha, NE.

Judy Diamond

University Libraries/ University of Nebraska State Museum

Producer, public art. "Vaccinate," exhibit featuring 46 posters promoting vaccination against COVID-19 and/or vaccine acceptance. Bennett Martin Public Library, Lincoln, NE.

Jesse Fleming Johnny Carson Center for Emerging Media Arts

Artist, mixed reality performance experience. "The Wilds," featuring game engines, live performance, dance, motion capture, digital audio. Carson Theater. Lincoln. NE.

Dana Fritz

Art, Art History and Design

Artist, photography exhibition. "Field Guide to a Hybrid Landscape and Re: Forest." Laboratory of Tree Ring Research atrium gallery, University of Arizona, Tucson, AZ.

Suna Gunther

Glenn Korff School of Music

Performer, solo voice performance. "Concert of Italian Arias." Brancaleoni International Music Festival. Palazzo Ducale, Urbino, Italy.

Michelle Harvey

Johnny Carson School of Theatre and Film

Lighting designer, theatrical production. "The Wilds." Carson Theatre, UNL, Lincoln, NE; Mahaney Arts Center, Middlebury College, Middlebury, VT.

Costume designer, theatrical production. "Dance Nation." Bluebarn Theatre, Omaha, NE.

Aaron Holz

Art, Art History and Design

Artist, painting exhibition. "Many In One." Briar Cliff Review Exhibition. Sioux City Art Center, Sioux City, IA.

Sophie Isaak

Art, Art History and Design

Artist, print exhibition. "Promising Developments in the Ongoing Investigation." Metropolitan Community College Gallery of Art and Design, Elkhorn, NE.

Jinku Kim Johnny Carson Center for Emerging Media Arts

Artist, immersive audio visual installation. "Hardwired Wonderland." Kiewit Luminarium, Omaha, NE.

Christina Kirk Johnny Carson School of Theatre and Film

Performer, theatrical production. "Death of a Salesman," playing the role of Linda. Nebraska Repertory Theatre, Lincoln, NE.

Barney R. McCoy Broadcasting

Producer, television production. "Nebraska Stories: Seven Years A Correspondent." Nebraska Public Media Television and Multimedia, Lincoln, NE.

Dan Novy Johnny Carson Center for Emerging Media Arts

Artist, ongoing digital creativity software exhibition. "ReefGen - A Diffusion-based Generative Animated Coral Reef." Creative Data Visualization. Johnny Carson Center for Emerging Media Arts, Linoln, NF

Director, immersive theater production. "Shadow Ema - An Immersive Escape Room Experience." Open Studios. Johnny Carson Center for Emerging Media Arts, Lincoln, NE.

Producer, film. "The AI and Creative Filmmaking Design Hackathon." Johnny Carson Center for Emerging Media Arts, Lincoln, NE.

Artist, ongoing digital creativity software exhibition. "KoiGen - A Generative Model-Based Koi Pond." Creative Data Visualization. Johnny Carson Center for Emerging Media Arts, Lincoln, NE.

Director, animated music video. "Singapore" (featuring the music of Tom Waits). Johnny Carson Center for Emerging Media Arts, Lincoln, NE.

Artist, film production. "Sheroes: The Astronaut Corps of 2050." Johnny Carson Center for Emerging Media Arts, Lincoln, NE.

Kendra L. Ordia Interior Design

Designer, juried exhibition. "(re)wild." Public Interiority Exhibition and Symposium. University of Tennessee, Knoxville, TN.

Ann Marie Pollard Johnny Carson School of Theatre and Film

Director, theatrical production. "The Play That Goes Wrong." Nebraska Repertory Theatre, Lincoln, NE.

Traci Robison University Libraries

Curator, historical photos and archival documents exhibition. "Opportunity & Opposition: A Century of Women's Athletics at the University of Nebraska." University of Nebraska-Lincoln Libraries, Lincoln. NE.

Patricia A. Simpson Modern Languages and Literatures

Co-curator and digital catalog co-author with Carole Levin, visual art exhibit. "Beyond Eve and Mary: Premodern Representations of Gender, Power, and Religion." Sheldon Museum of Art, Lincoln, NE.

Francisco Souto Art, Art History and Design

Artist, drawing exhibition. State of the Art: Locate. Currier Museum of Art, Manchester, NH.

Artist, drawing exhibition. "Diaspora (triptych)." Taking Up Space. K Contemporary Gallery, Denver, CO.

Rafael Untalan Johnny Carson School of Theatre and Film

Performer, theatrical production. "Best Available" by Jonathan Spector, playing the role of Dan/Bill. Ashland New Plays Festival, Ashland, OR.

Performer, theatrical production. "The Play That Goes Wrong," playing the role of Chris/Inspector Carter. Nebraska Repertory Theatre, Lincoln, NE.

Performer, theatrical production. "Much Ado About Nothing," playing the role of Don Pedro, Prince of Aragon. Illinois Shakespeare Festival, Bloominaton, IL.

Performer, theatrical production. "King Lear," playing the role of Gloucester. Illinois Shakespeare Festival, Bloomington, IL.

Jennifer Weisbrod Agronomy and Horticulture

Director, digital creativity production. "The Power of FieldWatch." YouTube, Lincoln, NE.

Sandra Williams Art, Art History and Design

Artist, solo cut paper exhibition. "Eat A Peach." The Studios of Key West, Key West, FL.

Published Books and Chapters

Faculty who wrote or edited books or chapters in books published July 1, 2022–June 30, 2023

UNL co-authors/editors designated in red

(identified by those who submitted items for inclusion)
Submitted by faculty, chairs/heads or deans

Marco Abel English

Editor, with Aylin Bademsoy and Jaimey Fisher. *Christian Petzold: Interviews*. Jackson, MS: University Press of Mississippi.

Ikuho Amano Modern Languages and Literatures

Author. Financial Euphoria, Consumer Culture, and Literature of 1980s Japan: Dreams of the Bubble Economy. London, UK: Routledge.

Chapter author. Infatuated with II Vate: Mishima's transnational mimesis of D'Annunzio as the decadent poet, patriot, and celebrity. In Michael Subialka, Elisa Segnini (Eds.), D'Annunzio and World Literature: Multilingualism, Translation, Reception. Edinburgh, UK: University of Edinburgh Press.

Özgür M. Araz Supply Chain Management and Analytics

Author, with David L. Olson. Data Mining and Analytics in Healthcare Management. Heidelberg, Germany: Springer.

Steven M. Barlow Special Education and Communication Disorders/ Biological Systems Engineering/ Center for Brain, Biology and Behavior

Chapter author, with Meredith Harold, Emily Zimmerman. Leona: Oromotor entrainment therapy to develop feeding skills in the preterm infant. In Shelly S. Chabon, Ellen R. Cohn, Dorian Lee-Wilkerson (Eds.), *The Communication Disorders Casebook: Learning by Example.* San Diego, CA: Plural Publishing, Inc.

Humberto Blanco Agronomy and Horticulture

Author. Cover Crops and Soil Ecosystem Services. Hoboken, NJ: John Wiley & Sons, Inc.

Editor, with Sandeep Kumar, Stephen Anderson. Soil Hydrology in a Changing Climate. Boca Raton, FL: CRC Press.

Kelli S. Boling Advertising and Public Relations

Author. Social Justice, Activism and Diversity in U.S. Media History. New York, NY: Routledge.

Eve M. Brank

Psychology/Center on Children, Families and the Law

Chapter author, with Jennifer L. Groscup, Emma W. Marshall, Lori A. Hoetger. Privacy rights and the law under the Fourth Amendment. In R. Roesch (Ed.), *Psychology and Law, a Volume of Routledge Encyclopedia of Psychology in the Real World*. New York, NY: Routledge—Taylor & Francis Group.

Scout Calvert University Libraries

Chapter author. Situated data: Feminist epistemology and data curation. In Yvonne Mery, Anthony Sanchez (Eds.), *The Critical Librarianship and Pedagogy Symposium: Reflections, Revisions, and New Work.* Chicago, IL: Association of College and Research Libraries.

Joy Castro English/Institute for Ethnic Studies

Author. One Brilliant Flame. Seattle, WA: Lake Union.

Natalie Chisam Marketing

Chapter author, with Joshua T. Beck, Robert W. Palmatier. Relationship marketing. In Gary Lilien, Andrew Petersen, Stefan Wuyts (Eds.), *Handbook of Business-to-Business Marketing*. Northampton, MA: Edward Elgar Publishing.

Parks M. Coble History

Author. The Collapse of Nationalist China: How Chiang Kai-shek Lost China's Civil War. Cambridge, UK: Cambridge University Press.

Yasar Demirel Chemical and Biomolecular Engineering

Chapter author. Thermodynamics and biological systems. In Munir Ozturk (Ed.), *Medicinal and Aromatic Plants of the World* in the *Encyclopedia of Life Support Systems*. New York, NY: UNESCO-EOLSS Publishers.

Author. Sustainable Engineering. Process Intensification, Energy Analysis, Artificial Intelligence. Boca Raton, FL: CRC Press.

Bedross Der Matossian History

Editor. *Denial of Genocides in the Twenty-First Century*. Lincoln, NE: University of Nebraska Press.

Chapter author. The Ottoman massacres of Armenians, 1894–1896 and 1909. In Ned Backhawk, Ben Kiernan, Benjamin Madley, Rebe Taylor (Eds.), *Cambridge World History of Genocide, Vol. II*, Cambridge, UK: Cambridge University Press.

Judy Diamond

University Libraries/ University of Nebraska State Museum

Editor, with Sherman Rosenfeld. *Amplifying Informal Science Learning: Rethinking Research, Design, and Engagement.* New York, NY: Routledge.

Author, with Scott Gardner, Gabor Racz. Parasites: The Inside Story. Princeton, NJ: Princeton University Press.

Heidi A. Diefes-Dux

Biological Systems Engineering

Chapter author, with Grace Panther. Workplace learning and adaptability frameworks for conceptualizing faculty development. In S.M. Linder, C. Lee, K. High (Eds.), *Handbook of STEM Faculty Development*. Charlotte, NC: Information Age Publishing.

Geoffrey Friesen Finance

Chapter author. Laborem exercens and the subjective dimension of work in economics and finance. In Martin Schlag (Ed.), *Holiness Through Work*. South Bend, IN: St. Augustine Press.

Dana Fritz

Art, Art History and Design

Author, with Katie Anania, Rebecca Buller, Rose-Marie Muzika, Salvador Lindquist. Field Guide to a Hybrid Landscape. Lincoln, NE: University of Nebraska Press.

Thomas C. Gannon English/Institute for Ethnic Studies

Author. Birding While Indian: A Mixed-Blood Memoir. Columbus, OH: The Ohio State University Press/Mad Creek Books.

Crystal Garcia

Educational Administration

Chapter author, with C.C. Beatty. Interrogating whiteness in sorority and fraternity life. In Z.H. Foste, T.L. Tevis (Eds.), *Critical Whiteness Praxis in Higher Education: Considerations for the Pursuit of Racial Justice on Campus*. New York, NY: Routledge.

Scott Gardner Biological Sciences

Author. *Parasites: The Inside Story*. Princeton, NJ: Princeton University Press.

James A. Garza History/Institute for Ethnic Studies

Editor, with J. Justin Castro. *Technocratic Visions: Engineers, Technology, and Society in Mexico*. Pittsburgh, PA: University of Pittsburgh Press.

Chapter author. Engineering the Porfirian landscape: Technology and social change in the basin of Mexico, 1890-1911. In James A. Garza, J. Justin Castro (Eds.), *Technocratic Visions: Engineers, Technology, and Society in Mexico*. Pittsburgh, PA: University of Pittsburgh Press.

Iker González-Allende

Modern Languages and Literatures

Chapter author. "La realidad es una guerra continua": La cultura de la violencia en el Medio Oeste de los Estados Unidos en El mapa de los afectos, de Ana Merino. In David Río (Ed.), La expansión y revisión de un mito: el Oeste norteamericano en la literatura española. Madrid, Spain: Iberoamericana-Vervuert.

Chapter author. Gizonak agerian: masculinitatea, patrilinealtasuna eta feminismoa Karmele Jaioren ipuinetan. In Mari Jose Olaziregi Alustiza, Amaia Elizalde Estenaga (Eds.), *Karmele Jaioren literatura, emozio gorpuztua*. Leioa, Spain: University of the Basque Country.

Edmund 'Ted' Hamann Teaching, Learning and Teacher Education/ Global Integrative Studies (Anthropology)

Chapter author. Policy Brief 2: Better integrating the U.S.-origin students in the Mexican education system through effective education policies. In Víctor Zúñiga, Patricia Gándara, Giovanni Peri, Silvia Giorguli Saucedo (Eds.), Report of the 2022 Forum on Education and Migration: The Future of the United States-Mexico Human Capital: Opportunities for a Bilateral Education and Migration Agenda. Riverside, CA: University of California-Alianza MX.

Chapter author, with Betsabé Roman, Juan Sánchez García, Víctor Zúñiga. The value of pluri-national research teams for studying education and migration. In C. Magno, J. Lew, S. Rodriguez (Eds.), (Re) Mapping Migration and Education: Methods, Theory, and Practice. Boston, MA: Brill.

Chapter author, with Bradley Levinson, Maria Elena Luna. Citizenship education and transnational (im)migrant groups in Mexico. In James Banks (Ed.), *Global Migration and Civic Education: Research, Policy, and Practices.* New York, NY: Routledge.

Chapter author, with Janet Eckerson, Mark Larson. The high school in the middle of everywhere: Nebraska's Lincoln High. In A. York, K. Welner, L. Molner Kelley (Eds.), *Schools of Opportunity*. New York, NY: Teachers College Press.

Chapter author, with Lesley Bartlett. School profile 1: Lincoln HS, Nebraska. In M. Bajaj, D. Walsh, L. Bartlett, G. Martínez (Eds.), Humanizing Education for Immigrant and Refugee Youth: 20 Strategies for the Classroom and Beyond. New York, NY: Teachers College Press.

Editor, with Víctor Zúñiga, Juan Sánchez García. Lo que los maestros mexicanos conviene que conozcan sobre la educación en Estados Unidos. Monterrey, Mexico: Universidad Autónoma de Nuevo León.

Chapter author. Diez cosas que maestros mexicanos deben saber de las escuelas estadounidenses. In M. Rodriguez Cruz, M. Zamora Chávez (Eds.), Abordajes inter-disciplinarios sobre la niñez y la adolescencia migrante en América Latina. Mexico City, Mexico: Editorial UNAM.

Rumiko Handa Architecture

Chapter author. The aesthetics of imperfection and architectural design for memory places: Four documentation centers on national socialism in Germany. In Peter Cheyne (Ed.), *Imperfectionist Aesthetics in Art and Everyday Life*. New York, NY: Routledge.

Chapter author. Architecture: Finality and adaptation. In Michiko Tsushima, Eriko Yamaguchi (Eds.), *The Form of the Everyday: Aesthetics, Architecture, Literature, and Food.* Tsukuba, Japan: Tsukuba University Press.

Lindsay Hastings

Agricultural Leadership, Education and Communication

Editor, with David Rosch. Research and Assessment Methods for Leadership Development in Practice. Hoboken, NJ: Wiley.

Chapter author. Don't be afraid to eat the whole whale! Using mixed methods to enhance what we learn in leadership research and assessment. In David Rosch, Lindsay Hastings (Eds.), New Directions for Student Leadership: No. 175. Research and Assessment Methods for Leadership Development in Practice. Hoboken, NJ: Wiley.

Chapter author, with Hannah Sunderman. Assessing and measuring leadership identity. In Julie Owen (Ed.), New Directions for Student Leadership: No. 178. Deepening Leadership Identity Development. Hoboken, NJ: Wiley.

Chapter author. How I see myself: Self-awareness. In Gina Matkin, Hannah Sunderman, Jason Headrick (Eds.), Developing Human Potential: A Personal Approach to Leadership. Lincoln, NE: Department of Agricultural Leadership, Education and Communication. UNL.

Chapter author, with Natasha Turman, Kristen Cilente Skendall. The complexities of the student learner. In Susan Komives, Julie Owen (Eds.), A Research Agenda for Leadership Learning and Development Through Higher Education. Northampton, MA: Edward Elgar Publishing.

Gary L. Hein Entomology

Chapter author, with A.J. McMechan, L. Overmyer. Wheat curl mite ecology and epidemiology of its associated wheat viruses. In S. Eigenbrode, A. Rashed (Eds.), Advances in Understanding Insect Pests Affecting Wheat and Other Cereals. Cambridge, UK: Burleigh Dodds Science Publishing.

Melissa J. Homestead

Chapter author. Teaching American women authorship in the American literature survey through the History Of The Book. In Emily Todd and Matteo Pangallo (Eds.), *Nineteenth-Century American Literature in Transition, Vol. III: 1851-1877.* Amherst, MA: University of Massachusetts Press.

Oing Hui

Electrical and Computer Engineering

Author, with Wassim M. Haddad, Junsoo Lee. *Network Information Systems: A Dynamical Systems Approach*. Philadelphia, PA: Society for Industrial and Applied Mathematics.

Danielle C. Jefferis

law

English

Chapter author, with Nicole B. Godfrey. How the COVID-19 pandemic has hurt incarcerated people. In Claire L. Parins (Ed.), *The Legal and Social Ramifications of Pandemics on Civil Rights and Civil Liberties*. Chicago, IL: ABA Publishing.

Wendy Jean Katz

Art, Art History and Design

Chapter author. William Walcutt, Mazeppa, and the Know-Nothings. In Charles C. Eldredge (Ed.), *The Unforgettables: Expanding the History of American Art*. Berkeley, CA: University of California Press.

Casey R. Kelly

Communication Studies

Author. Caught on Tape: White Masculinity and Obscene Enjoyment. London, UK: Oxford University Press.

Taeyeon Kim

Educational Administration

Chapter author, with L. Hernandez, P.J. Kuttner, G.R. López et al. Families and educators co-designing: Critical education research as participatory public scholarship. In M. Young, S. Diem (Eds)., Handbook of Critical Education Research: Qualitative, Quantitative, and Emerging Approaches. New York, NY: Routledge.

Jody Koenig Kellas

Communication Studies

Chapter author, with Erin K. Willer. Narrative pedagogy: A practice to connect teacher and student and enhance learning. In Marian L. Houser, Angela M. Hosek (Eds.), *Handbook of Instructional Communication: Principles and Practices of Teaching Rhetorical and Relational Perspectives*. Dubuque, IA: Kendall Hunt.

Thomas R. Kubick

Accountancy

Author, with Sally M. Jones, Shelley C. Rhoades-Catanach, Sandra R. Callaghan. *Principles of Taxation for Business and Investment Planning*. New York, NY: McGraw-Hill.

Jen Landis

Art, Art History and Design

Author. Skip the Bad Songs. Lincoln, NE: GIRLBRAVE Press.

Laurie Thomas Lee

Broadcasting

Chapter author. How local TV news is surviving disruption as newspapers fail: Lessons learned. In Gus Hurwitz, Kyle Langvardt (Eds.), Media and Society After Technological Disruption. Cambridge, UK: Cambridge University Press.

Jaime I. Lopez **Community and Regional Planning**

Author, with Lisa Schweitzer. Handbook on Planning and Power. Cheltenham, UK: Edward Elgar Publishing.

Veterinary Medicine and Biomedical Sciences John Dustin Lov

Editor, with Jessie D. Monday, David R. Smith. Ruminant Diagnostics and Interpretation. Amsterdam, Netherlands: Elsevier.

Chapter author, with Michael Clawson. From genomics to MALDI-TOF MS: Diagnostic identification and typing of bacteria in veterinary clinical laboratories. In Haroun Shah, Erika Tranfield (Eds.), Microbiological Identification Using MALDI-TOF and Tandem Mass Spectrometry: Industrial and Environmental Applications. London, UK: Wiley.

Suping Lu University Libraries

Author, Japanische Greueltaten in Nanking: Das Nanjing Massaker in deutschen diplomatischen Dokumenten. Wiesbaden, Germany: Springer Verlag für Sozialwissenschaften (VS).

Author. Japanese Atrocities in Nanjing: The Nanjing Massacre and Post-Massacre Social Conditions Recorded in German Diplomatic Documents. Singapore and New York: Springer.

Gina S. Matkin

Agricultural Leadership, **Education and Communication**

Editor, with Jason Headrick, Hannah M. Sunderman. Developing Human Potential: A Personal Approach to Leadership. Lincoln, NE: University of Nebraska-Lincoln.

Julia McOuillan Sociology

Chapter author. Fostering youth STEM identities through social network connections in informal science settings. In Judy Diamond, Sherman Rosenfeld (Eds.), Amplifying Informal Science Learning: Rethinking Research, Design, and Engagement. New York, NY: Routledge.

Deepika Menon

Teaching, Learning and Teacher Education/ Center for Science, Mathematics and Computer Education

Chapter author, with Amy S. Bauer, Elizabeth V. Hasseler, Katie L. Johnson, Amanda Thomas, R. Martinez, Guy Trainin. Greater than the sum of its parts: Centering science within elementary STEM education. In Sulaiman M. Al-Balushi, Lisa Martin-Hansen, Youngjin Song (Eds.), Reforming Science Teacher Education Programs in the STEM Era. New York, NY: Palgrave Macmillan.

Nehraska Water Center Alakananda Mitra

Chapter author, with Saraju P. Mohanty, Elias Kougianos. GROdet: A novel framework for plant disease detection and leaf damage estimation. In Luis M. Camarinha-Matos, Luis Ribeiro, Leon Strousa (Eds.), Internet of Things; IoT through a Multi-disciplinary Perspective. Cham, Switzerland: Springer.

Chapter author, with Saraju P. Mohanty, Elias Kougianos. A smart agriculture framework to automatically track the spread of plant diseases using mask region-based convolutional neural network. In Luis M. Camarinha-Matos, Luis Ribeiro, Leon Strousa (Eds.), Internet of Things. IoT through a Multi-disciplinary Perspective. Cham, Switzerland: Springer.

Laura K. Muñoz History/Institute for Ethnic Studies

Chapter author. North America. In Bonnie G. Smith, Nova Robinson (Eds.), The Routledge Global History of Feminism. New York, NY: Routledge.

Supply Chain Management and Analytics David L. Olson

Author, with Hsu-Shih Shih. TOPSIS and Its Extensions: A Distance-Based MCDM Approach. Heidelberg, Germany: Springer.

Author, with Özgür M. Araz. Data Mining and Analytics in Healthcare Management. Heidelberg, Germany: Springer.

Author, with Georg Lauhoff. Deskriptives Data-Mining. Heidelberg, Germany: Springer Gabler.

Morgan E. Palmer

Classics and Religious Studies/ Women's and Gender Studies

Chapter author. Inscriptions on the Capitoline: Epigraphy and cultural memory in Livy. In Martin T. Dinter, Charles Guérin (Eds.), Cultural Memory in Republican and Augustan Rome. Cambridge, UK: Cambridge University Press.

Yi Oian

Electrical and Computer Engineering

Author, with Shengjie Xu, Rose Qingyang Hu. Cybersecurity in Intelligent Networking Systems. Hoboken, NJ: IEEE Press/Wiley.

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Truyen Quach

Agronomy and Horticulture

Author, with Hanh Nguyen, Olivia Meyer, Shirley J. Sato, Tom Elmo Clemente, Ming Guo. Plant Genome Engineering: Methods and Protocols. New York, NY: Springer.

Brett C. Ratcliffe Entomology

Author, with Dana Price. *The Sarabaeoid Beetles of Maryland (Coleoptera)*. Lincoln, NE: University of Nebraska State Museum.

Heather Richards-Rissetto

Global Integrative Studies (Anthropology)/Center for Digital Research in the Humanities

Chapter author, with Kristi Primeau, Graham Goodwin, and David Witt. Multisensory experiences and narratives in archaeological landscapes' sound, vision, and movement in GIS and virtual reality. In Giacomo Landeschi, Eleanor Betts (Eds.), Capturing the Senses: Digital Methods for Sensory Archaeologies. Cham, Switzerland: Springer Cham.

Arman Roohi Computing

Chapter author. With Shaahin Angizi, Deliang Fan. Enabling edge computing using emerging memory technologies: From device to architecture. In Ali Iranmanesh (Ed.), Frontiers of Quality Electronic Design (QED) AI, IoT and Hardware Security. Basel, Switzerland: Springer International Publishing.

Milad Roohi

Durham School of Architectural Engineering and Construction

Chapter author. Seismic multi-hazard risk and resilience modeling of networked infrastructure systems. In Ehsan Noroozinejad Farsangi, Mohammad Noori, Tony T.Y. Yang, Paulo B. Lourenço, Paolo Gardoni, Izuru Takewaki, Eleni Chatzi, Shaofan Li (Eds.), Automation in Construction Toward Resilience: Robotics, Smart Materials and Intelligent Systems. Boca Raton, FL: Taylor & Francis Group.

Loukia K. Sarroub Teaching, Learning and Teacher Education

Chapter author, with Cassandra Schroeder. Religious influences on the growth of literacy practice. In R.J. Tierney, F. Rizvi, K. Erkican (Eds.), *International Encyclopedia of Education, vol. 10*. New York, NY: Elsevier.

Editor, with Mary Juzwik, Denise Davilla, Robert LeBlanc, Eric Rackley. English Teaching: Practice and Critique. Leeds, UK: Emerald Publishing.

Susan Sheridan Educational Psychology/Nebraska Center for Research on Children, Youth, Families and Schools

Chapter author, with J.W. Eagle. Appreciating and promoting resilience in families. In S. Goldstein, R.B. Brooks (Eds.), *Handbook of Resilience in Children (3rd ed.)*. New York, NY: Kluwer/Plenum Press.

Chapter author, with K.E. Brown. Family engagement for early literacy: Interventions that promote family-school partnerships. In S.Q. Cabell, S.B. Neuman, N. Patton Terry (Eds.), *Handbook on the Science of Early Literacy*. New York, NY: Guilford.

Chapter author, with E.S. Brower. Teachers and Parents as Partners: A family-school partnership approach for all children. In C. Giné, J.M. Mas, A. Balcells, C. Simón (Eds.) Working with Families: How to Promote Parental Competence and Well-Being. Barcelona, Spain: Horsori Editorial.

Chapter author, with A.L. Witte, S.A. Garbacz. Preparing the school mental health workforce to engage in partnership approaches to address children's needs. In S.W. Evans, J.S. Owens, C.P. Bradshaw, M.D. Weist (Eds.) Handbook of School Mental Health. Issues in Clinical Child Psychology. New York, NY: Springer.

Chapter author, with R.T.M. Gomes. Parceria família-escola: A atuação do psicopedagogo na aproximação dos dois contextos [Family-school partnership: The performance of the school psychologist in bringing the two contexts together]. In C.T. Piza, E.C. Macedo (Eds). Intervenção na clínica psicopedagógica: Teoria e prática de relatos clínicos [Intervention in Psychopedagogical Clinic: Theory and Practice of Clinical Reports]. Lisbon, Portugal: Editora Hogrefe.

Jessica A. Shoemaker

Law

Chapter author, with Nicole Graham. Property rights and power across rural landscapes. In Margaret Davies, Lee Godden, Nicole Graham (Eds.), *Handbook of Property, Law, and Society.* London, UK: Routledge Press.

Patricia A. Simpson Modern Languages and Literatures

Author, with Helga Druxes, Alexandar Mihailovic. Screening Solidarity: Neoliberalism and Transnational Cinema. London, UK: Bloomsbury Academic.

Jeffrey R. Stevens

Psychology

Editor. Canine Cognition and the Human Bond. New York, NY: Springer.

Scott F. Stoltenberg

Psychology

Author. Foundations of Behavior Genetics. Cambridge, UK: Cambridge University Press.

Jordan Stump

Modern Languages and Literatures

Translator. The Valiant Little Tailor (by Eric Chevillard). New Haven, CT: Yale University Press.

Aaron Sutherlen

Art, Art History and Design

Editor, with Judy Diamond, Meghan Leadabrand, Julia McQuillan, St. Patrick Reid. *Vaccinate: Posters from the COVID-19 Pandemic.* Lincoln, NE: Zea Books.

Guy Trainin Teaching, Learning and Teacher Education

Chapter author, with Deepika Menon, Amy S. Bauer, Katie L. Johnson, Elizabeth F. Hassele, Amanda Thomas, Ricardo Martinez. Greater than the sum of its parts: Centering science within elementary STEM education. In S.M. Al-Balushi, L. Martin-Hansen, Y. Song (Eds.), Reforming Science Teacher Education Programs in the STEM Era: International and Comparative Perspectives. London, UK: Palgrave Macmillan.

Shari R. Veil

Advertising and Public Relations

Chapter author. Crisis communication, public relations. In E. Ho, C. Bylund, J. van Weert (Eds.), *International Encyclopedia of Health Communication*. New York, NY: Wiley.

Frans G. von der Dunk

Law/Space, Cyber and Telecommunications Law

Chapter author. Law and liberty on the Moon. In C.S. Cockell (Ed.), The Institutions of Extraterrestrial Liberty. Oxford, UK: Oxford University Press.

Chapter author. The Artemis Accords as a tool of cooperation. In P.J. Blount, Tanja Masson-Zwaan, Rafael Moro-Aguilar, Kai-Uwe Schrogl (Eds.), *Proceedings of the International Institute of Space Law 2021*. The Hague, Netherlands: Eleven.

Chapter author. The "law of the horse" for outer space? What "space law" is, and why it is important to educate space lawyers. In R.A. Stefanski (Ed.), *Salius Publica Suprea Lex*. Warsaw, Poland: Lazarski.

Chapter author. Italy and the implementation of international space law. In G. Ardito et al. (Eds.), Liber Amicorum Sergio Marchisio – Il diritto della comunità internazionale tra caratteristiche strutturali e tendenze innovative. Naples, Italy: Editoriale Scientifica.

Ng'ang'a Wahu-Mũchiri

English

Author. Writing on the Soil: Land and Landscape in Literature from Eastern and Southern Africa. Ann Arbor, MI: University of Michigan Press.

Jennifer Weisbrod

Agronomy and Horticulture

Editor, with Sam Polly, Greg Puckett. *Best Management Practices*. Lincoln, NE: UNL Printing Services.

Amanda L. Witte

Nebraska Center for Research on Children, Youth, Families and Schools

Chapter author, with S. Andrew Garbacz, Susan M. Sheridan. Preparing the school mental health workforce to engage in partnership approaches to address children's needs. In S. Evans, J. Owens, C. Bradshaw, M. Weist (Eds.), Handbook of School Mental Health: Innovations in Science and Practice (3rd Ed.). New York, NY: Springer.

Recognitions and Honors

Faculty who have been elected to honor academies or who have received national or international honors or awards July 1, 2022–June 30, 2023

Submitted by faculty, chairs/heads or deans

Raymond Hames Anthropology

National Academy of Sciences

Margaret Jacobs History

American Academy of Arts and Sciences

James Van Etten Plant Pathology

National Academy of Sciences

Jonis Agee English

Literary Contribution Award, Mountain Plains Library Association

Katie Anania Art, Art History and Design

Short-term Research Fellowship, Beinecke Rare Book and Manuscript Library, Yale University

Katherine Ankerson Architecture/Academic Affairs

2022 AIA Nebraska Architectural Design | Educator Award, American Institute of Architects Nebraska

Cory Armstrong Journalism and Mass Communications

Outstanding Woman in Journalism and Mass Communication, Association for Education in Journalism and Mass Communication

Sohrab Asgarpoor Electrical and Computer Engineering

Midwest Section Outstanding Campus Representative Award, American Society for Engineering Education

Hamid Bagheri Computing

Best Paper Award, IEEE Technical Council on Software Engineering, Formal Methods Europe, SIGSOFT

Distinguished Paper Award, Association for Computing Machinery, SIGSOFT

Lindsey Bahe Interior Design

Fellowship, Angelo Donghia Foundation

Shannon Bartelt-Hunt Civil and Environmental Engineering

Nebraska Champion for Engineering Award, American Council of Engineering Companies

Andrea Basche Agronomy and Horticulture

Early Career Award, American Society of Agronomy

Rick Bevins Psychology

Fellow, Society for Research on Nicotine and Tobacco

Andréia Bianchini Food Science and Technology

Edith A. Christensen Award for Outstanding Contributions in Analytical Methodology, Cereals and Grains Association

Humberto Blanco Agronomy and Horticulture

Shirley H. Phillips Distinguished Lecture in No-Till Agriculture Award, University of Kentucky

Kristen Blanklev Law

Pro Bono Honor Roll, Association of American Law Schools

Associate Fellow, American Institute of Aeronautics and Astronautics

Chelsea Brisbin Child, Youth and Family Studies

Terri Lynne Lokoff Teacher Award, First Up Champions for Early Education

Kelsy Burke Sociology

Fellow, Public Religion Research Institute

Cheryl Burkhart-Kriesel Nebraska Extension/ Agricultural Economics

Creative Excellence Award, National Association of Community Development Extension Professionals

Michael Burton Textiles, Merchandising and Fashion Design

Best Animation (with William G. Thomas, Kwakiutl Dreher), Prince George's Film Festival

Bertrand Clarke Statistics

Fellow, International Society for Bayesian Analysis

Katelyn Coburn Child, Youth and Family Studies

New Professional Paper Award, National Council on Family Relations, Family Therapy Section

Nathan Conner

Agricultural Leadership, Education and Communication

Fulbright U.S. Scholar Award, Council for International Exchange of Scholars

S. Carolina Córdova

Agronomy and Horticulture/ Natural Resources

Early Career Award, Long-term Agroecosystem Research Network

Aziza Cvamani

Interior Design/Product Design

Young Educator Award, Industrial Designers Society of America

Carnegie African Diaspora Fellowship, Institute of International Education/Carnegie Corporation of New York

Kwame Dawes English

Order of Distinction in the Rank of Commander, Jamaica

Winner of 14th Annual Poetry Contest, Narrative Magazine

Jeffrey L. Day

Architecture/Landscape Architecture

Central States Region Honor Award for Interior Architecture, American Institute of Architects

Design Build Award, Association of Collegiate Schools of Architecture

Central States Region Honor Award, American Institute of Architects

Central States Region Honor Award for Architectural Detail, American Institute of Architects

Honor Award, Annual ARCHITECT Residential Architect Design Awards, *Architect Magazine*

Dipti Dev

Child, Youth and Family Studies

Early Professional Achievement Award, Society for Nutrition Education and Behavior

Shudipto Dishari

Chemical and Biomolecular Engineering

Early Investigator Award, American Chemical Society's Division of Polymeric Materials: Science and Engineering

Accelerator Core Concept Award, Women in Engineering ProActive Network

Kwakiutl Dreher

English

WORLDING Incubator Fellow, Unity Charitable Fund, the Unity for Humanity Program, and the Co-Creation Studio at MIT Open Documentary Lab

Best Animation (with William G. Thomas, Michael Burton), Prince George's Film Festival

Bruce Dvorak

Civil and Environmental Engineering

Industrial Assessment Center of the Year (with Robert Williams, Karen Stelling), U.S. Department of Energy

Richard Endacott Johnn

Johnny Carson School of Theatre and Film

Best Short Screenplay, Snake Alley Festival of Film

Best Short Script, Copa Shorts Film Festival

Ronald K. Faller

Midwest Roadside Safety Facility/ Civil and Environmental Engineering

Fellow, National Academy of Inventors

Sheri Fritz

Earth and Atmospheric Sciences/ Biological Sciences

Visiting Professorship, Brazilian Ministry of Education

Crystal Garcia

Educational Administration

Dr. Charles Eberly Oracle Award, Association of Fraternity/Sorority Advisors

Roch Gaussoin

Agronomy and Horticulture

Green Section Award, United States Golf Association

Phil Geih

Global Integrative Studies (Anthropology)

Byron Cummings Award, Arizona Archaeological and Historical Society

Trov Gilmore

Natural Resources

Communication Award for Educational Video Recordings, National Association of County Agricultural Agents

Priscilla Grew

Earth and Atmospheric Sciences (emerita)/ University of Nebraska State Museum

President's Medal, Geological Society of America

Mark A. Grien

Chemistry

The Estee Lecture in Chemical Education Research, University of South Dakota Department of Chemistry

David Hage

Chemistry

Award for Distinguished Contributions in Education, International Federation of Clinical Chemistry and Laboratory Medicine

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Lindsay J. Hastings

Agricultural Leadership, Education and Communication

SAGE Outstanding Scholar Award, Association of Leadership Educators

Distinguished Workshop, Association of Leadership Educators

Outstanding Practice Paper Award, Association of Leadership Educators

Outstanding Research Poster Award, Association of Leadership Educators

Holly Hatton-Bowers

Child, Youth and Family Studies

Outstanding Engagement Award, Association of Public and Landgrant Universities Board on Human Sciences

Infant and Early Childhood Mental Health Emerging Leadership Award in Research, ZERO TO THREE

Eileen Hebets

Biological Sciences

Outstanding Woman in STEM Award, Nebraska Women in STEM Conference

Gary Hein Entomology

Service to Agriculture Award, National Alliance of Independent Crop Consultants

Terry Hejny

Nebraska LEAD Program

2022 Outstanding International Leadership Program Director, International Association of Programs for Agricultural Leadership

Mark Hoistad Architecture

TRIAD Award, Council of Educators in Landscape Architecture

Shavonna Holman

Educational Administration

Distinguished Professional Achievement Award, College of Education, Health and Human Sciences–University of Nebraska at Omaha

George Hunt

Civil and Environmental Engineering

2023 Nebraska Champion for Engineering Award, American Council of Engineering Companies

Margaret Jacobs

History

Heartland Emmy: Diversity/Equity/Inclusion Program Award, National Academy of Television Arts and Sciences' Heartland Chapter

Anna Jaffe

Psychology

APS Rising Star, Association for Psychological Science

Amit Jhala

Agronomy and Horticulture/Nebraska Extension

U.S. Herbicide Resistance Action Committee Herbicide Resistance Management Award, Weed Science Society of America

Superior Paper Award – Information Technology, Sensors and Control Systems, American Society of Agricultural and Biological Engineers

Mary Ann Johnson

Nutrition and Health Sciences

Fellow, American Society for Nutrition

Valerie K. Jones

Advertising and Public Relations

Best Article of the Year, Journal of Advertising Education

Shawn Kaskie

Nehraska Extension

Excellence in Teamwork Award, National Association of Community Development Extension Professionals

Casev Kelly

Communication Studies

Franklyn S. Haiman Award for Distinguished Scholarship in Freedom of Expression, National Communication Association

Oleh Khalimonchuk

Biochemistry

Fellow, American Association for the Advancement of Science

Ciera E. Kirkpatrick

Advertising and Public Relations

Emerging Scholar, Association for Education in Journalism and Mass Communication

Srivatsan Kidambi

Chemical and Biomolecular Engineering

2023 Science Outside the Lab Program, NSF-funded Nanotechnology Collaborative Infrastructure Southwest and the National Nanotechnology Coordinated Infrastructure Coordinating Office

Stevan Z. Knezevic

Agronomy and Horticulture

Fellow, North Central Weed Science Society

Jody Koenig Kellas

Communication Studies

Bernard J. Brommel Award for Outstanding Scholarship or Distinguished Service in Family Communication, National Communication Association

Alok Kumar

Marketing

Louis W. Stern Award, American Marketing Association

Jen Landis

Art, Art History and Design

Excellence in Education-Mayor's Art Awards, Lincoln Arts Council

John Lindquist Agronomy and Horticulture

Outstanding Research Award, Weed Science Society of America

Joe Louis Entomology

Plant-Insect Ecosystem's Recognition Award in Entomology, Entomological Society of America

Joe Luck Biological Systems Engineering

Superior Paper Award – Machinery Systems, American Society of Agricultural and Biological Engineers

Elsbeth Magilton Law/Space, Cyber, and Telecommunications Law

NExt Pioneer Fellowship, Nebraska Tech Collaborative

Kristin Malek Nutrition and Health Sciences/ Nebraska Extension

Bob Dallmeyer Educator of the Year Award, International Association of Exhibitions and Events

Excellence in Teaching Award, International Council on Hotel, Restaurant and Institutional Education

Martha Mamo Agronomy and Horticulture

Fellow, American Society of Agronomy

Barney R. McCoy Broadcasting

On-Location Best of Show Award: Faculty News and Sports Competition, Broadcast Education Association

On-Location Best of Show Award: Faculty Audio Competition, Broadcast Education Association

Best of Competition in Radio Hard News Reporting: Faculty News Competition, Broadcast Education Association Festival of Media Arts

Eric Sevareid Award, First Place: Soft Feature Medium Market Radio, Midwest Broadcast Journalists Association

Edward R. Murrow Regional Award for Small Market Radio Feature Reporting, Radio Television and Digital News Association

Edward R. Murrow Regional Award for Excellence in Small Market Radio Sound, Radio Television and Digital News Association

Carla McCullough Natural Resources/Nebraska Extension

Communication Award for Educational Video Recordings, National Association of County Agricultural Agents

L.J. McElravy

Agricultural Leadership, Education and Communication

Distinguished Practice Paper Award, Association of Leadership Educators

Deborah Minter Eng

English/Women's and Gender Studies

Kenneth Bruffee Award, Council of Writing Program Administrators

Alakananda Mitra

Nebraska Water Center

Outstanding Early Stage Doctoral Student Award, Department of Computer Science and Engineering, University of North Texas

Max Perry Mueller

Classics and Religious Studies

Public Scholar Fellowship, National Endowment for the Humanities

Amv Napoli

Child, Youth and Family Studies

Educational Aids Blue Ribbon Award (with Jaci Foged, Leanne Manning, Tiffany Messer, Sarah Roberts, Becky Schuerman, Lee Sherry, Jackie Steffen, Karen Wedding, LaDonna Werth), American Society of Agricultural and Biological Engineers

Maital Neta

Psychology

Fellow, Association for Psychological Science

Stanislava Nikolova

Finance

Excellence in Reviewing Award, Journal of Risk and Insurance

Charles Chioma Nwaizu

Food Science and Technology

Fellowship, the Carnegie African Diaspora Fellowship Program, Carnegie Corporation of New York

Kendra I. Ordia

Interior Design

Teaching Excellence Award, Interior Design Educators Council

Katie Pekarek

Natural Resources/Nebraska Extension

Communication Award for Educational Video Recordings, National Association of County Agricultural Agents

Sophia Perdikaris Global Integrative Studies (Anthropology)

Alumni Achievement Award, City University of New York's Graduate Center

Brent Plugge

Nebraska Extension

Distinguished Service Award, National Association of County Agricultural Agents Jo Potuto Law

2023 Law and Sports Award, Association of American Law Schools Section on Law and Sports

Wei Qiao Electrical and Computer Engineering

Senior Member, National Academy of Inventors

Xin Qiao Biological Systems Engineering

Superior Paper Award – Information Technology, Sensors and Control Systems, American Society of Agricultural and Biological Engineers

Mark Riley Engineering

Fellow, Institute of Biological Engineering

Julia Schleck English

Intellectual Freedom Award, National Council of Teachers of English

Amy Millmier Schmidt Biological Systems Engineering

Educational Aids Blue Ribbon Award (with Rick Koelsch), American Society of Agricultural and Biological Engineers

James Schnable Agronomy and Horticulture

Fellow, German PhenoRob Cluster of Excellence

Karina Schoengold Agricultural Economics/

Nebraska Water Center

President, Western Agricultural Economics Association

Bonita Sharif Computing

Best Paper Award, International Conference on Formal Methods in Software Engineering

Chungwook Sim Civil and Environmental Engineering

T.Y. Lin Award (with co-authors Maher Tadros, David Gee and Michael Assad), American Society of Civil Engineers

Ash Eliza Smith Johnny Carson Center for Emerging Media Arts/ Art. Art History and Design

WORLDING Incubator Fellow, Unity Charitable Fund, the Unity for Humanity Program, and the Co-Creation Studio at MIT Open Documentary Lab

Troy Smith Management

Top 50 Undergraduate Business Professors of 2022, Poets&Quants

Jim Specht Agronomy and Horticulture (emeritus)

Larry Tonniges Research Achievement Award, Nebraska Soybean Board

Shari Stenberg English/Women's and Gender Studies

Kenneth Bruffee Award, Council of Writing Program Administrators

Ryan Sullivan Law

2022 Pro Bono Leaders (along with volunteers from Nebraska Law), American Bar Association Free Leaal Answers

Daniel Tannenbaum Economics

Best Paper Award, American Economic Journal: Applied Economics, American Economics Association

William G. Thomas History

Best Animation (with Kwakiutl Dreher, Michael Burton), Prince George's Film Festival

Jason Tuller Nebraska Extension

Educational Materials Award, National Association of Community Development Extension Professionals

Eric Unrau Child, Youth and Family Studies

Sally Wysong Award, Lincoln Association for the Education of Young Children

Mehmet Can Vuran Computing

Superior Paper Award – Information Technology, Sensors and Control Systems, American Society of Agricultural and Biological Engineers

Rebecca Wachs Biological Systems Engineering

JOR Spine Early Career Award, Orthopaedic Research Society

Young Innovator of Cellular and Molecular Bioengineering Award, Biomedical Engineering Society

Jian Wang Mechanical & Materials Engineering

Brimacombe Medalist, Minerals, Metals and Materials Society

Lily Wang Durham School of Architectural Engineering and Construction

'Women Engineers You Should Know,' SWE Magazine, Society of Women Engineers

Kristy Weissling

Special Education and Communication Disorders

Recognition of Service Award, Nebraska Speech-Language-Hearing Association

Matthew Williamson

Civil and Environmental Engineering

Nebraska Champion for Engineering Award, American Council of Engineering Companies

Richard Wilson Plant Pathology

Fellow, American Association for the Advancement of Science

Yiqi Yang Textiles, Merchandising and Fashion Design

Olney Medal for Outstanding Achievement in Textile Science, American Association of Textile Chemists and Colorists

Publications in Scholarly Journals

Faculty who have published in peer-reviewed scholarly journals or publications considered scholarly in their field July 1. 2022–June 30. 2023

UNL co-authors designated in red

(Co-authors identified by those who submitted articles for inclusion)
Submitted by faculty, chairs/heads or deans

Roberto Abadie

Global Integrative Studies (Anthropology)/ Sociology

With P. Habecker, K.G. Carrasco, K.S. Chiou, S. Fernando, S.J. Bennett et al. Employing respondent driven sampling (RDS) to recruit people who inject drugs (PWID) and other hard-to-reach populations during COVID-19: Lessons learned. *Front Psychiatry*. Oct. 13, 2022.

With M. Cano, P. Habecker, C. Gelpí-Acosta. Substance use, injection risk behaviors, and fentanyl-related overdose risk among a sample of PWID post-Hurricane Maria. *Harm Reduction Journal*. Nov. 24, 2022.

"The drug sellers were better organized than the government": A qualitative study of participants' views of drug markets during COVID-19 and other big events. *International Journal of Environmental Research and Public Health*. Jan. 11, 2023.

With S.J. Bennett, C.A. Davila, K.G. Carrasco, S. Fernando, K.S. Chiou et al. Immune profiling in Puerto Rican injection drug users with and without HIV-1 infection. *Journal of Leukocyte Biology*. April 13, 2023.

"I don't want to die": A qualitative study of coping strategies to prevent fentanyl-related overdose deaths among people who inject drugs and its implications for harm reduction policies. *Harm Reduction Journal*. June 14, 2023.

Dena Abbott

Educational Psychology

With Rin Nguyen, Carrie Bohmer, Millie Myers, Jessica Boyles, Caitlin Mercier. The Us in uterus: A collaborative autoethnography of psychologists advocating for reproductive justice. *Psychology of Women Quarterly*. April 19, 2023.

With Hali Santiago. Rural atheists in the United States: A critical grounded theory investigation. *Journal of Counseling Psychology*. April 27, 2023.

Michael S. Adamowicz

Food Science and Technology

With Ema H. Graham, Peter C. Angeletti, Jennifer L. Clarke, Samodha C. Fernando, Joshua R. Herr. Genome sequence of feline papillomavirus strain P20 assembled from metagenomic data from the skin of a house cat owner. *Microbiology Resource Announcements*. July 5, 2022.

With Taylor N. Rambo, Jennifer L. Clarke. Internal validation of MaSTR™ probabilistic genotyping software for the interpretation of 2-5 person mixed DNA profiles. *Genes.* Aug. 11, 2022.

With Ema H. Graham, Wesley A. Tom, Alison C. Neujahr, Jennifer L. Clarke, Joshua R. Herr, Samodha C. Fernando. The persistence and stabilization of auxiliary genes in the human skin virome. *Virology Journal*. March 22, 2023.

With Morgan L. Korzik, Josep De Alcaraz-Fossoul, David San Pietro. Preliminary study: DNA transfer and persistence on non-porous surfaces submerged in spring water. *Genes.* May 6, 2023.

Sam A. Allgood

Economics

With K. McGoldrick. Teaching before and during COVID-19: A survey. *The Journal of Economic Education*. April 1, 2023.

Muhammad Naveed Aman

Computing

With Ahsanullah Memon, Mohd Wazir Bin Mustafa, Zohaib Hussain Laghari et al. Internal model control (IMC)-based active and reactive power control of brushless double-fed induction generator with notch filter. *International Transactions on Electrical Energy Systems*. July 18, 2022.

With Farrukh Hafeez, Usman Ullah Sheikh, Asif Iqbal. Incoherent and online dictionary learning algorithm for motion prediction. *Electronics*. Oct. 29, 2022.

With Muhammad M. Fayyaz, Irtaza M. Syed, Yi Meng. Comprehensive predictive control model for a three-phase fourlegged inverter. *Energies*. March 11, 2023.

With James Adu Ansere, Mohsin Kamal, Izaz Ahmad Khan. Dynamic resource optimization for energy-efficient 6G-IoT Ecosystems. *Sensors*. May 12, 2023.

With Xiao Wei, Biplab Sikdar. A light-weight technique to detect GPS spoofing using attenuated signal envelopes. *IEEE Open Journal of the Computer Society*. May 22, 2023

John E. Anderson Economics

With Seth H. Giertz, Shafiun N. Shimul. Reducing property taxes for agriculture: Diffusion of use-value assessment policy across the United States. *Land Use Policy*. Sept. 22, 2022.

Introduction to special issue: Split-rate taxation. *Public Finance Review*. Nov. 1, 2022.

Peter Angeletti Biological Sciences

With Ema H. Graham, Michael S. Adamowicz, Jennifer L. Clarke, Samodha C. Fernando, Joshua R. Herr. Novel feline papillomavirus isolate P20 assembled from metagenomic data isolated from human skin. *Microbiology Resource Annoucements*. July 11, 2022.

Özgür M. Araz Supply Chain Management and Analytics

With U.E. Arslan, H. Ozcebe, S. Uner et al. Body image dissatisfaction among school children in Turkey and its potential effect on body esteem. *The Turkish Journal of Pediatrics*. Jan. 30, 2023.

With M. Lash, S. Sajeesh. Predicting mobility using limited data during early stages of a pandemic. *Journal of Business Research*. March 1, 2023.

With L. Brittin, A. Ramirez, T. Huang. An agent-based simulation model for testing novel obesity interventions in school environment. *IEEE Transactions on Engineering Management*. Aug. 1, 2023.

Cory L. Armstrong Journalism and Mass Communications

With Anna Grace Usery. Do you see what I see? How media choice and visual tornado cues influence individual storm preparation. *Weather, Climate, and Society.* Dec. 1, 2022.

Audrey Atkin Biological Sciences

With C. Boone, D. Gutzmann, J. Kramer, K.W. Nickerson. Quantitative assay for farnesol and aromatic fusel alcohols from the fungus *Candida albicans. Applied Microbiology.* Sept. 15, 2022.

Hamid Bagheri Computing

With M. Alhanahnah, C. Stevens, B. Chen, Q. Yan. IoTCom: Dissecting interaction threats in IoT systems. *IEEE Transactions on Software Engineering*. April 1, 2023.

Edward Balistreri Economics

With F. Baquedano, J.C. Beghin. The impact of COVID-19 and associated policy responses on global food security. *Agricultural Economics*. Nov. 4, 2022.

With X. He, G.H. Kim, W. Zhang. A general equilibrium assessment of COVID-19's labor productivity impacts on China's regional economies. *Journal of Productivity Analysis*. Dec. 1, 2022.

With D. Tarr. Mathematics of generalized versions of the Melitz, Krugman, and Armington models with detailed derivations. *Journal of Global Economic Analysis*. Dec. 19, 2022.

With M. Brown. Calibrating constant elasticity of substitution technologies to bottom-up cost estimates. *Journal of Global Economic Analysis*. June 1, 2023.

Raul G. Barletta Veterinary Medicine and Biomedical Sciences

With I.T. Sakallioglu, A.S. Maroli, A. De Lima Leite, D.D. Marshall, B. Evans, D.K. Zinniel, P. Dussault, R. Powers. Multi-omics investigation into the mechanism of action of an anti-tubercular fatty acid analogue. *Journal of the American Chemical Society*. Nov. 11, 2022.

With J.P. Bannantine, T. Gupta, D.K. Zinniel, A. Hikal, F.D. Quinn. Use of a ferret model to test efficacy and immunogenicity of live attenuated *Mycobacterium avium subspecies paratuberculosis* vaccines. *Methods in Molecular Biology*. Nov. 25, 2022.

With A. Pattnaik, B.R. Sahoo, L.R. Struble, G.E.O. Borgstahl, Y. Zhou, R. Franco, F.A. Osorio, T.M. Petro. Ferritin nanoparticle-based Zika virus vaccine candidate induces robust humoral and cellular immune responses and protects mice from lethal virus challenge. *Vaccines* (Basel). April 10, 2023.

With J.P. Bannantine, J.R. Stabel, E. Muthukrishnan, D.K. Anderson, E. Dutta, V. Manthena, M. Hanafy, D.K. Zinniel. *Mycobacterium avium subsp. paratuberculosis* candidate vaccine strains are pro-apoptotic in RAW 264.7 murine macrophages. *Vaccines (Basel)*. June 10, 2023.

Steven M. Barlow Special Education and Communication Disorders/ Center for Brain, Biology and Behavior/ Biological Systems Engineering

With C. Liao, J. Lee, S. Kim et al. Spectral features of NNS dynamics in extremely preterm infants. *Pediatric Medicine*. March 8, 2023.

Amy Bartels Management

With A.C. Lennard, B.A. Scott, S.J. Peterson. Stopping surface-acting spillover: A transactional theory of stress perspective. *Journal of Applied Psychology*. March 1, 2023.

Erin C. Bauer Entomology

With Charles Murietta, Larry Barksdale. Teaching forensic entomology with common grocery items: Decomposition and insect succession studies. *Journal of Forensic Science Education*. June 2, 2023.

Christopher Bilder Statistics

Alpha seminar: A course for new graduate students in statistics. *The American Statistician*. July 1, 2022.

Erin E. Blankenship Statistics

With Ella M. Burnham, Sydney E. Brown. Designing a large, online simulation-based introductory statistics course. *Journal of Statistics and Data Science Education*. March 8, 2023.

Kristen M. Blankley Law

A muddy mess: The Supreme Court's jurisprudence on jurisdiction for arbitration matters. *University of Miami Law Review.* May 5, 2023.

Kelli S. Boling Advertising and Public Relations

With D. Slakoff, E. Tadros. "I just couldn't cope with it, you know? I just couldn't believe that she was gone": The portrayal of co-victims' grief in true crime podcasts about missing (and presumed killed) women. *Journal of Family Violence*. Dec. 1, 2022.

"I'm not a journalist. I don't think that I necessarily fall under the same rules that they do": Journalistic ethics in true crime podcast production. *Ethical Space*. Dec. 5, 2022.

Eve M. Brank Psychology/Center on Children, Families and the Law

With Katherine P. Hazen. Identifying and unpacking the role of social identity in moderating evaluations of police-civilian interactions. *Journal of Police and Criminal Psychology.* Jan. 14, 2023.

Chad E. Brassil Biological Sciences

With George R. Wheeler, Johannes M.H. Knops. Functional traits' annual variation exceeds nitrogen-driven variation in grassland plant species. *Ecology.* Feb. 1, 2023.

Kati Brazeal Biological Sciences

With D.L. Kirkwood-Watts, E.K. Bremers, E.A. Robinson, B.A. Couch. Revisiting clickers: In-class questions followed by at-home reflections are associated with higher student performance on related exam questions. *Journal of Microbiology & Biology Education*. Aug. 23, 2022.

With A.M. Upchurch, D.L. Kirkwood-Watts, L.A. Wheeler, B.A. Couch et al. Access to online formative assessments in lower-division undergraduate biology courses: Investigating barriers to student engagement. *CBE-Life Sciences Education*. Dec. 1, 2022.

John Brunero Philosophy

Practical reasons, theoretical reasons, and permissive and prohibitive balancing. *Synthese*. Sept. 1, 2022.

Rationality and normativity. *International Encyclopedia of Ethics*. Sept. 1, 2022.

The extended theory of instrumental rationality and means-ends coherence. *Philosophical Inquiries*. Feb. 1, 2023.

Anthony Bushard Glenn Korff School of Music

Creating interactive content for the 21st century music student: Reinvigorating text development in the foundational course and beyond. *College Music Symposium*. Nov. 15, 2022.

Heriberto Cerutti Biological Sciences

With Y. Li, E.-J. Kim, A. Voshall, E.N. Moriyama. A novel class of small RNAs associates with Argonaute1 and is up-regulated by nutrient deprivation in the alga *Chlamydomonas*. *Plant Cell*. March 22, 2023.

Heng Chen Supply Chain Management and Analytics

With J.K. Ryan. Optimal specialty crop planning policies with yield learning and forward contract. *Production and Operations Management*. Feb. 1, 2023.

Mun Yuk Chin Educational Psychology

With Mindi N. Thompson. Social class concealment: A daily diary study of college students with low income. *Journal of Diversity in Higher Education*. March 27, 2023.

Natalie Chisam Marketing

With Leigh McAlister, Frank Germann, Pete Hayes et al. A taxonomy of marketing organizations. *Journal of the Academy of Marketing Science*. Dec. 16, 2022.

Alan Christensen Biological Sciences

With M. Rodriguez, A. Martinez-Hottovy, A.C. Christensen. Social networks in the single cell. *Invited Insight*. Sept. 12, 2022.

S. Carolina Córdova

Agronomy and Horticulture/ Natural Resources

With W. Eaton, M. Burnham, T. Robertson et al. Advancing scholarship and practice of stakeholder engagement in working landscapes: A co-produced research agenda. *Socio-Ecological Practice Research*. Oct. 13, 2022.

Brian Couch Biological Sciences

With D.L. Kirkwood-Watts, E.K. Bremers, E.A. Robinson, K.R. Brazeal. Revisiting clickers: In-class questions followed by at-home reflections are associated with higher student performance on related exam questions. *Journal of Microbiology and Biology Education*. July 6, 2022.

With J.D. McAlpin, J.P. Ziker, J. Skvoretz et al. Development of the cooperative adoption factors instrument to measure factors associated with instructional practice in the context of institutional change. *International Journal of STEM Education*. July 16, 2022.

With P.C. Jimenez, D. Golick, J.M. Dauer. Developing and evaluating a pollination systems knowledge assessment in a multidisciplinary course. *International Journal of STEM Education*. Aug. 2, 2022.

With A.K. Lane, B. Earl, S. Feola et al. Context and content of teaching conversations: Exploring how to promote sharing of innovative teaching knowledge between science faculty. *International Journal of STEM Education*. Aug. 4, 2022.

With A.M. Upchurch, D.L. Kirkwood-Watts, L.A. Wheeler, K.R. Brazeal et al. Access to online formative assessments in lower-division undergraduate biology courses: Investigating barriers to student engagement. *CBE-Life Sciences Education*. Dec. 21, 2022.

Elle Covington University Libraries

With Liana Petruzzi, Bonnie Ewald, Walter Rosenberg et al. Exploring the efficacy of social work interventions in hospital settings: A scoping review. Social Work in Public Health. July 27, 2022.

With Nicole Milano, Liana Petruzzi, Barbara Jones, Patricia A. Findley. Social workers in integrated care beyond primary care: A scoping review. *Translational Behavioral Medicine*. Nov. 1, 2022.

With Lainey Sevillano, Jose Paez. Restoring Kapwa: A systematic review of colonial mentality and Pilipinx American bio-psycho-social-spiritual well-being. *Asian American Journal of Psychology*. April 27, 2023.

Lindsey B. Crawford Biochemistry

Human embryonic stem cells as a model for hematopoietic stem cell differentiation and viral infection. *Current Protocols*. Dec. 15, 2022.

Hematopoietic stem cells and betaherpesvirus latency. Frontiers in Cellular and Infection Microbiology. June 6, 2023.

Clay Cressler Biological Sciences

With A.C. Pfenning-Butterworth, D.T. Nguyen, J.L. Hite. Circadian rhythms mediate infection risk in *Daphnia dentifera*. *Ecology and Evolution*. Sept. 9, 2022.

With J.P. DeLong. Stochasticity directs adaptive evolution toward nonequilibrium evolutionary attractors. *Ecology*. Sept. 18, 2022.

With R.O. Cooper, S. Tjards, J. Rischling, D.T. Nguyen. Multiple generations of antibiotic exposure and isolation influence host fitness and the microbiome in a model zooplankton species. *FEMS Microbiology Ecology*. Sept. 19, 2022.

Aziza Cvamani

Interior Design/Product Design

With Charles Chioma Nwaizu. Impacts of a transdisciplinary approach to practice-based learning on students' success skills. *IDEAS 2022: Proceedings of IDEAS 2022.* April 16, 2023.

Rochelle L. Dalla

Child. Youth, and Family Studies

With K. Roselius, S. Erwin, J. Peter et al. Sex trafficking among the Bedia of India: Defying the dominant human trafficking discourse. *Journal of Interpersonal Violence*. Feb. 13, 2022.

With K.M. Edwards, V. Mauer, K. Roselius, E. Camp, J. Marshall, M. Ybarra. Formative research to develop an mHealth app to prevent dating and sexual violence and alcohol use among high school youth. *American Journal of Community Psychology.* Nov. 9, 2022.

Jennifer Davidson Economics

With B. Walstad. Long-term analysis of a savings program in elementary school. *Citizenship, Social and Economics Education*. Dec. 1, 2022.

Kiyomi Deards University Libraries

With C. Hoeve. How libraries are funded: Transparency issues in student tuition and fees among ARL libraries. *Journal of New Librarianship*. May 17, 2023.

John DeLong Biological Sciences

With Y. Islam, F.M. Shah, A. Guncan, X. Zhou. Functional response of *Harmonia axyridis* on the larvae *Spodoptera litura*: The combined effect of temperature and prey size. *Frontiers in Plant Science*. July 1, 2022.

Leslie M. Delserone

University Libraries

With Megan N. O'Donnell. Simple Darwin core for non-biologists. *Data Curation Network Primers*. May 23, 2023.

Jessica R. Deters

Mechanical & Materials Engineering

With Kirsten Davis, Desen Ozkan, James Davis, Homero Murzi. Exploring the process and outcomes of leading a study abroad program using real-time perspectives. *Frontiers: The Interdisciplinary Journal of Study Abroad*. Aug. 31, 2022.

With Teirra K. Holloman, Dustin Grote, Ashley R. Taylor, David B. Knight. Critically examining the role of habitus for minoritized students in a global engineering program. *Frontiers: The Interdisciplinary Journal of Study Abroad*. Nov. 18, 2022.

With Kirsten Davis, Teirra K.Holloman, David B. Knight. Student researchers abroad: Understanding student narratives through the theoretical lens of person-environment fit. *Studies in Engineering Education*. Feb. 27, 2023.

With Teirra K. Holloman, Ashlee Pearson, David B. Knight. Understanding United States and Australian engineering education research (EER) contexts. *Australian Journal of Engineering Education*. March 7, 2023.

Dipti A. Dev

Child, Youth and Family Studies

With Irene Padasas, Carly Hillburn, Virginia C. Stage, David Dzewaltowski. Ecological approach to family-style, multilevel child care intervention: Formative evaluation using RE-AIM framework. *Journal of Nutrition Education and Behavior*. Aug. 1, 2022.

With Carly Hillburn, Jordan Luxa, Laura Lessard et al. Implementation of federal waivers for feeding children in early care and education during the COVID-19 pandemic. *Journal of Nutrition Education and Behavior*. Oct. 1, 2022.

With Saima Hasnin, Tirna Purkait, Taren Swindle et al. Systematic review of reflection spectroscopy-based skin carotenoid assessment in children. *Nutrients*. March 7, 2023.

Angela M. Dietsch

Special Education and Communication Disorders/ Center for Brain. Biology and Behavior

With R. Mulheren, R. Westemeyer. The effect of taste on swallowing: A scoping and systematic review. *Critical Reviews in Food Science and Nutrition*. Aug. 29, 2022.

With R. Mocarski, D.A. Hope, N. Woodruff, M. McKelvey. Revisiting the rainbow: Culturally responsive updates to a standard clinical resource. *American Journal of Speech-Language Pathology*. Nov. 10, 2022.

With R. Westemeyer, D.H. Schultz. Taste stimulation and brain activity: A mechanism for neuroplastic change? *Brain and Behavior.* March 1, 2023.

With R. Westemeyer. Comparing taste perception across modalities: Liquids versus dissolvable taste strips. *Dysphagia*. May 27, 2023.

Shudipto Dishari

Chemical and Biomolecular Engineering

With S. Chatterjee, O.A. Obewhere, E. Zamani et al. Advancing ionomer design to boost interfacial and thin-film proton conductivity via styrene-calix[4] arene-based ionomers. *Cell Reports Physical Science*. Feb. 15, 2023.

With K.A. Cerda, G. Purohit, M. Kathol et al. Cationic lignin as an efficient and bio-renewable antimicrobial material. *ACS Sustainable Chemical Engineering*. July 3, 2023.

Liangcheng Du

Chemistry

With H. Yue. Function of a pathway-associated major facilitator superfamily gene *hsaf-orf1* in the biosynthesis of the antifungal HSAF in *Lysobacter enzymogenes*. *Tetrahedron*. Nov. 23, 2022.

With J. Luo, X. Li, H. Wang, et al. Identification and characterization of the 28-N-methyltransferase involved in HSAF analogue biosynthesis. *Biochemistry*. Dec. 9, 2022.

With W. Han, Y. Zhai, R. Zhang et al. Tricrilactones A-H, potent antiosteoporosis macrolides with distinctive ring skeletons from *Trichocladium crispatum*, an alpine moss-associated fungus. *Angewandte Chemie International Edition*. March 6, 2023.

With X. Li, Q. Liu, H. Zou et al. Discovery and biosynthesis of pseudoamides reveals enzymatic cyclization of the polyene precursor to 5-5 bicyclic tetramate macrolactams. *ACS Catalysis*. March 24, 2023.

With A. Miller, S. Li, C.D. Eichhorn, Y. Zheng. Identification and biosynthetic study of the siderophore lysochelin in the biocontrol agent *Lysobacter enzymogenes*. *Journal of Agricultural and Food Chemistry*. May 9, 2023.

Brittany Duncan Computing

With J.M. Peschel, R.R. Murphy. Design and field evaluation of a mission specialist interface for small unmanned aerial systems. *International Journal on Social Robotics*. Sept. 15, 2022.

With P. Fletcher, A. Luther, C. Detweiler. Predicting visual differentiability for unmanned aerial vehicle gestures. *IEEE Robotics and Automation Letters*. Sept. 15, 2022.

Bruce Dvorak Civil and Environmental Engineering

With M. Sherief, J.M. Asad, B. Bunker et al. In-situ desorption of hydrogen sulphide from activated carbon: Effect of temperature, pH and flowrate. *International Journal of Environmental Science and Technology*. Feb. 20, 2023.

With B. Bunker, A. Aly Hassan. Thermal regeneration of activated carbon used as an adsorbent for hydrogen sulfide (H2S). *Sustainability*. April 10, 2023.

Robert Dyer Computing

With Samuel W. Flint, Jigyasa Chauhan. Pitfalls and guidelines for using time-based Git data. *Empirical Software Engineering*. Oct. 6, 2022.

With Jigyasa Chauhan. An exploratory study on the predominant programming paradigms in Python code. *Proceedings of the 30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering*. Nov. 16, 2022.

With Samuel W. Flint. Performing large-scale mining studies: From start to finish. Proceedings of the 30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering. Nov. 18, 2022.

With Ali M. Keshk. Method chaining redux: An empirical study of method chaining in Java, Kotlin, and Python. *Proceedings of the 20th International Conference on Mining Software Repositories*. May 15, 2023.

Ronald K. Faller

Midwest Roadside Safety Facility/ Civil and Environmental Engineering

With T.Y. Yosef, C. Fang, S. Kim. A multi-material ALE model for investigating impact dynamics of pile-soil systems. *Soil Dynamics and Earthquake Engineering*. Nov. 10, 2022.

With S.K. Rosenbaugh, R.W. Bielenberg. Development of a bridge railing optimized for rural, low-volume roads. *Transportation Research Record: Journal of the Transportation Research Board*. March 6, 2023.

With C. Stolle, J. Rasmussen, C. Fang, R. Bielenberg. Updated zone of intrusion envelopes to MASH impact conditions. *Transportation Research Record: Journal of the Transportation Research Board.* May 11, 2023.

With M. Pajouh, K. Lechtenberg, S. Rosenbaugh, R. Bielenberg. Evaluation of the Hawaii modified Delaware retrofit three-beam bridge railing and approach guardrail transition. *Transportation Research Record: Journal of the Transportation Research Board*. May 29, 2023.

With A. Loken, J. Steelman, R. Bielenberg, S. Rosenbaugh. Performance case study of concrete bridge rail post on deck overhang. *Transportation Research Record: Journal of the Transportation Research Board.* June 22, 2023.

Geoffrey Friesen Finance

Human flourishing and the self-limiting assumptions of modern finance. Business and Professional Ethics Journal. Jan. 5, 2023.

Scott Gardner Biological Sciences

With E.P. Hoberg, W.A. Boeger, O. Molnar et al. The DAMA protocol, an introduction: Finding pathogens before they find us. *Manter: Journal of Parasite Biodiversity*. Nov. 3, 2022.

Esma Gel Supply Chain Management and Analytics

With D. Kilinc, M.Y. Sir, K.S. Pasupathy. Statistical characterization of patient response to offered access delays using healthcare transactional data. *Naval Research Logistics*. Oct. 1, 2022.

With C.J. Linhan, T. Nelson, C.V. Bailey et al. Sentinel surveillance of SARS-CoV-2 rates and equity impacts using labor and delivery patients in Phoenix, Arizona. *Preventive Medicine Reports*. Dec. 1, 2022.

Katarzyna Glowacka

Biochemistry/ Center for Plant Science Innovation

With A. Rodrigues de Queiroz, C. Hines, S. Sahay et al. The effects of exogenously applied antioxidants on plant growth and resilience. *Phytochemistry Reviews*. April 1, 2023.

With Seema Sahay, Marcin Grzybowski, James C. Schnable. Genetic control of photoprotection and photosystem II operating efficiency in plants. *New Phytologist*. May 22, 2023.

With Johannes Kromdijk, Coralie E. Salesse-Smith, Cailin Smith et al. Is chloroplast size optimal for photosynthetic efficiency? *New Phytologist*. June 25, 2023.

Yifan Gong Economics

With Y. Yao. Demographic changes and the housing market. *Regional Science and Urban Economics*. July 1, 2022.

With R. Stinebrickner, T. Stinebrickner. Marriage, children, and labor supply: Beliefs and outcomes. *Journal of Econometrics*. Nov. 1, 2022.

Iker González-Allende Modern Languages and Literatures

El dolor que redime: Sacrificio y género durante la guerra civil española en *En la gloria de aquel amanecer* (1937) de María Sepúlveda. *Cincinnati Romance Review*. Sept. 16, 2022.

"Dulce oveja y brava leona": Las mujeres de la clase trabajadora en el teatro de Pilar Millán Astray. *Lectora: Revista de Dones i Textualitat*. Oct. 28, 2022.

With Daniel Lino Plata. Hombres gays y homoafecto: masculinidades gays alternativas en *Hombres de verdad* (2020) de Alberto Marcos. *Estudios LGBTIQ+, Comunicación y Cultura*. Dec. 21, 2022.

Richard E. Goodman

Food Science and Technology

Evaluation of the genotoxic potential of protoporphyrin IX and the safety of a protoporphyrin IX-rich algal biomass. *Journal of Applied Toxicology*. July 1, 2022.

Cannabis-related allergies: An international overview and consensus recommendations. *Allergy*. July 1, 2022.

Safety evaluation of Fy Protein™ (nutritional fungi protein), a macroingredient for human consumption. *Food and Chemical Toxicology.* Aug. 1, 2022.

Safety evaluation of *Neurospora crassa* mycoprotein for use as a novel meat alternative and enhancer. *Food Chemical Toxicology.* Oct. 1, 2022.

Toxicology and digestibility of *Chlamydomonas debaryana* green algal biomass. *Journal of Applied Toxicology*. Feb. 15, 2023.

Shivam Gupta

Supply Chain Management and Analytics

With A. Agrawal, J.K. Ryan. Agile contracting: Managing incentives under uncertain needs. *Production and Operations Management*. March 1, 2023.

With W. Chen, M. Dawande, G. Janakiraman. Three years, two papers, one course off: Optimal nonmonetary reward policies. *Management Science*. May 1, 2023.

Becky Haddad

Agricultural Leadership, Education and Communication

With Haley Q. Traini, Aaron J. McKim. We've crossed a line: A philosophical examination of systemic implications surrounding SBAE teachers' attempts at boundary setting. *Journal of Agricultural Education*. March 31, 2023.

Edmund 'Ted' Hamann Teaching, Learning and Teacher Education/ Global Integrative Studies (Anthropology)

With Aprille Phillips, Alexa Yunes-Koch. Student mobility as an underrecognized and unattended to problem for predominantly American Indian school districts in Nebraska. *Journal of American Indian Education*. Jan. 1, 2023.

Lindsay J. Hastings

Agricultural Leadership, Education and Communication

With Hannah Sunderman, Addy Sellon. Mindset of generativity: An exploration of generativity development among college student leadership mentors. *Journal of Student Affairs Research and Practice*. Sept. 16, 2022.

With Leigh Fine, Donnette Noble, Eric Buschlen et al. JOLE 20th anniversary editorial advisory board. *Journal of Leadership Education*. Oct. 1, 2022.

With Hannah Sunderman. Generativity development among college students who mentor: A sequential multi-method quantitative study. *International Journal of Mentoring and Coaching in Education*. March 23, 2023.

With Hannah Sunderman. Theory-driven approach to developing socially responsible leadership among college students who mentor: Commitment. *Journal of Campus Activities Practice and Scholarship*. April 17, 2023.

With Hannah Sunderman. Assessing and evaluating the impact of leadership mentoring on the collegiate mentor. *Journal of Leadership Education*. July 1, 2023.

With Hannah Sunderman. Building a training and development intervention for peer leaders: Consideration vs. structure. *Journal of Leadership Education*. July 1, 2023.

Gregory F. Hayden Economics

With T.A. Mahin. Integrating the concepts of zero greenhouse-gas emissions, the precautionary principle, and environmental impact statements for climate change policy mitigation. *Journal of Economic Issues*. July 18, 2022.

Eileen Hebets Biological Sciences

With P. Kundu, N. Choi, A. S. Rundus, R.D. Santer. Uncovering 'hidden' signals: Previously presumed visual motion signals likely generate air particle movement. *Frontiers in Ecology and Evolution*. July 5, 2022.

Gary L. Hein Entomology

With S. Tatineni. Plant viruses of agricultural importance: Current and future perspectives of virus disease management strategies. *Phytopathology.* Feb. 1, 2023.

Melissa J. Homestead English

With Marie Léger-St-Jean. "Changed to suit the English market": American Novelist E. D. E. N. Southworth in George Stiff's London Penny Weeklies. *Book History*. May 1, 2023.

Uchechukwu Jarrett Economics

With S. Miller, H. Mohtadi. Dry spells and global crop production: A multi-stressor and multi-timescale analysis. *Ecological Economics*. Jan. 1, 2023.

Danielle C. Jefferis Law

With carceral intent. *Michigan Journal of Race and Law.* Feb. 10, 2023.

Valerie K. Jones Advertising and Public Relations

With Kate Johnson, Hannah Molskness, Ronit Gandhi, Lilly Zhou. Educating students about influencing audiences ethically in a data-driven social media world. *Journal of Advertising Education*. Nov. 2, 2022.

Nafyad Kawo Natural Resources

With Jesse Korus, Mats Lundh Gulbrandsen. Multiple-point statistical modeling of three-dimensional glacial aquifer heterogeneity for improved groundwater management. *Hydrogeology Journal*. July 1, 2023

Jody Koenig Kellas Communication Studies

With A.L. Palmer-Wackerly, H.L. Voorhees, J. Marsh et al. How individuals use metaphors to negotiate fertility treatment decision-making with their romantic partners. *Health Communication*. July 14, 2022.

With Toni Morgan. Communicating across eternal divides: Conceptualizing communicated acceptance during parent-child religious difference. *Journal of Family Communication*. Oct. 2, 2022.

Deepak R. Keshwani Biological Systems Engineering

With Heydi Calderon-Ambelis. Sources of variability and uncertainty in food-energy-water nexus systems. *Journal of the ASABE*. Nov. 17, 2022.

With Brandi Brown, Miguel Fudolig, Tami Brown-Brandl. Impacts on teamwork performance for an engineering capstone in emergency remote teaching. *Journal of the ASABE*. Jan. 16, 2023.

Oleh Khalimonchuk Biochemistry

With E. Nyvltova, J.V. Dietz, J. Seravalli, A. Barrientos. Coordination of metal center biogenesis in human cytochrome c oxidase. *Nature Communications*. July 24, 2022.

With A.J. White, C.S. Harper, J.V. Dietz et al. Loss of Num1-mediated cortical dynein anchoring negatively impacts respiratory growth. *Journal of Cell Science*. Nov. 1, 2022.

Priyanka Khandelwal Marketing

With Leslie Ramos Salazar, Yafei Zhang, Heidi Huntington, Joshi Pradnya. Examining online MBA students' social presence and career planning self-confidence. *Business and Professional Communication Quarterly*. Sept. 1, 2022.

Dane Kiambi Advertising and Public Relations

With Phillip Arceneaux, Guy Golan. Organization-government relationships in sub-Saharan Africa: The emerging public affairs industry in Kenya. *Journal of Communication Management*. March 14, 2023.

Seunghee Kim

Civil and Environmental Engineering

With B.M. Bekele, C. Song, J. Eun. Exploratory seepage detection in a laboratory-scale earthen dam based on distributed temperature sensing method. *Geotechnical and Geological Engineering*. Oct. 14, 2022.

With T.Y. Yosef, C. Fang, R.K. Faller. A multi-material ALE model for investigating impact dynamics of pile-soil systems. *Soil Dynamics and Earthquake Engineering*. Nov. 10, 2022.

With J. Ko, S. Kim, H. Seo. Performance of a compressed-air energy storage (CAES) pile under various operation conditions. *Journal of Energy Storage*. Dec. 5, 2022.

With A. Hosseini Zadeh, M.-K. Jeon, T.-H. Kwon. Pore-scale experimental study on fluid injection into two-dimensional deformable porous media. *International Journal of Multiphase Flow.* Dec. 27, 2022.

With O. Babarinde, B. Schwartz, J. Meng et al. An overview of geological carbon sequestration and its geomechanical aspects. *Geological Society, London.* Jan. 24, 2023.

With R.A. Schultz, N. Heinemann, B. Horváth et al. An overview of underground energy-related product storage and sequestration. *Geological Society, London.* March 8, 2023.

With Y. Alhowaidi, J. Eun, C.R. Song, F. Jaber. Field monitoring and analysis of abutment foundation behavior for a curved integral abutment bridge under thermal loading. *Transportation Research Record*. March 28, 2023.

With M. Dusseault, O. Babarinde, J. Wickens. Compressed air energy storage (CAES): Current status, geomechanical aspects, and future opportunities. *Geological Society, London*. March 30, 2023.

With A. Hosseini Zadeh, I. Kim. Characteristics of CO₂ hydrate formation and dissociation at different CO₂-water ratios in a porous medium. *International Journal of Greenhouse Gas Control.* April 10, 2023.

Taeyeon Kim Educational Administration

Reimagining accountability through educational leadership: Applying the metaphors of "agora" and "bazaar." *Educational Management Administration and Leadership*. Oct. 11, 2022.

With J. Wright. Falling into gap discourses. *Discourse: Studies in the Cultural Politics of Education*. March 10, 2023.

With S.B. Jang, J.K. Jung, M. Son, S.Y. Lee. Negotiating Asian American identities: Collaborative self-study of Korean immigrant scholars' reading group on AsianCrit. *Journal of Diversity in Higher Education*. April 13, 2023.

With M. Yang, Y. Oh, S. Lim. Teaching with collective resilience during COVID-19: Korean teachers and collaborative professionalism. *Teaching and Teacher Education*. May 1, 2023.

Exploring equity in the state-driven accountability system. NCSA Today. June 19, 2023.

Ciera E. Kirkpatrick

Advertising and Public Relations

With Sisi Hu, Namyeon Lee, Yoorim Hong et al. Overcoming Black Americans' psychological and cognitive barriers to clinical trial participation: Effects of news framing and exemplars. *Health Communication*. Aug. 2, 2022.

With Sisi Hu, Yoorim Hong, Namyeon Lee et al. Improving rural White men's attitudes toward clinical trial messaging and participation: Effects of framing, exemplars and trust. *Health Education Research*. Dec. 1, 2022.

With Sungkyoung Lee. Comparisons to picture-perfect motherhood: How Instagram's idealized portrayals of motherhood affect new mothers' well-being. *Computers in Human Behavior*. Dec. 1, 2022.

Stanley V. Kleppinger

Glenn Korff School of Music

With Timothy Chenette, Stacey Davis. A critical review of current aural skills materials and pedagogical practices. *Journal of Music Theory Pedagogy*. March 29, 2023.

Thomas R. Kubick

Accountancy

With Ashleigh Bakke, Michael Wilkins. Deferred tax asset valuation allowances and auditors' going concern evaluations. *Auditing: A Journal of Practice and Theory.* Feb. 1, 2023.

With G. Brandon Lockhart, David C. Mauer. Judicial ideology and debt contracting. *Journal of Banking and Finance*. April 25, 2023.

With Yijun Li. The effect of managerial adverse experience on financial reporting. *The Accounting Review.* May 1, 2023.

Patty Kuo

Child, Youth and Family Studies

With Victoria J. Johnson, Dongho Choi, Lorey A. Wheeler. Coparenting support in the context of child difficulty: Mother and father differences. *Family Process*. July 3, 2023.

Kyle Langvardt

Law

With Gus Hurwitz. Media and society after technological disruption. Journal of Free Speech Law. June 1, 2023.

Laurie Thomas Lee

Broadcasting

How local TV news is surviving disruption as newspapers fail: Lessons learned. *Journal of Free Speech Law.* June 1, 2023.

Ron Lewis Animal Science

With N. Vargas Jurado, D.R. Notter, J.B. Taylor et al. Model definition for genetic evaluation of purebred and crossbred lambs including heterosis. *Journal of Animal Science*. June 3, 2022.

With A.C. Araujo, P.L.S. Carneiro, H.R. Oliveira, L.F. Brito. SNP- and haplotype-based single-step genomic predictions for body weight, wool, and reproductive traits in North American Rambouillet sheep. *Journal of Animal Breeding and Genetics*. Nov. 21, 2022.

With B.C. Arisman, J.M. Burke, J.L.M. Morgan. Clustering climate and management practices to define environmental challenges affecting gastrointestinal parasitism in Katahdin sheep. *Journal of Animal Science*. Jan. 5, 2023.

With S.J. Harrison, P.B. Siegel, C.F. Honaker. Population dynamics of a long-term selection experiment in white Plymouth Rock chickens selected for low or high body weight. *Poultry Science*. May 15, 2023.

Yusong Li

Civil and Environmental Engineering

With Kazi Albab Hussain, Svetlana Romanova, Ilhami Okur, Dong Zhang, Jesse Kuebler, Xi Huang, Bing Wang, Lucia Fernandez-Ballester, Yongfeng Lu, Mathias Schubert. Assessing the release of microplastics and nanoplastics from plastic containers and reusable food pouches: Implications for human health. *Environmental Science and Technology*. June 21, 2023.

Qingsheng Li Biological Sciences

With Y. Cheng, R.K. Burrack. Spatially resolved and highly multiplexed protein and RNA in situ detection by combining CODEX with RNAscope in situ hybridization. *The Journal of Histochemistry and Cytochemistry*. July 14, 2022.

With H. Li, J. Zheng, Q. Xu et al. Hepatocyte adenosine kinase promotes excessive fat deposition and liver inflammation. *Gastroenterology*. Sept. 28, 2022.

Yijia Lin Finance

With C. Chen, M. Zhou. Risk-seeking behavior and its implications for the optimal decision making of annuity insurers. *North American Actuarial Journal*. Jan. 1, 2023.

Xiaoqi Liu

Durham School of Architectural Engineering and Construction

With Hejia Zhang, Athanasios Tzempelikos, Seungjae Lee et al. The impact of personal preference-based thermal control on energy use and thermal comfort: Field implementation. *Energy and Buildings*. April 1, 2023.

John Dustin Loy Veterinary Medicine and Biomedical Sciences

With W.B. Crosby, L.J. Pinnell, J.T. Richeson et al. Does swab type matter? Comparing methods for *Mannheimia haemolytica* recovery and upper respiratory microbiome characterization in feedlot cattle. *Animal Microbiome*. Aug. 13, 2022.

With A.M. Workman, T.G. McDaneld, G.P. Harhay et al. Recent emergence of bovine coronavirus variants with mutations in the hemagglutinin-esterase receptor binding domain in U.S. cattle. *Viruses.* Sept. 27, 2022.

With E.L. Wynn, Matt Hille, G. Schuller et al. Whole genome sequencing of diverse *Moraxella bovis* strains reveals two genotypes with different genetic determinants. *BMC Microbiology*. Oct. 21, 2022.

With H.G. Olson, M.L. Clawson, E.L. Wynn, Matt Hille. Genotype classification of *Moraxella bovis* isolates using MALDI-TOF MS profiles. *Frontiers in Microbiology*. Dec. 8, 2022.

With J.M. Ruzante, B. Harris, P. Plummer et al. Surveillance of antimicrobial resistance in veterinary medicine in the United States: Current efforts, challenges, and opportunities. *Frontiers in Veterinary Science*. Dec. 20, 2022.

With M.L. Clawson, P.R.F. Adkins, J.R. Middleton. Current and emerging diagnostic approaches to bacterial diseases of ruminants. *Veterinary Clinics of North America: Food Animal Practice*. March 1, 2023.

With G.L. Lewis, R.J. Fenton, E.N. Moriyama, R.A. Moxley. Association of ISVsa3 with multidrug resistance in Salmonella enterica isolates from cattle (Bos taurus). Microorganisms. March 1, 2023.

With Duan Loy, Renata Gomes, Enakshy Dutta, B.W. Brodersen. Time and temperature stability of *Tritrichomonas foetus* in phosphate-buffered saline as evaluated by a reverse transcription real-time PCR assay and retrospective field analysis. *Frontiers in Veterinary Science*. March 30, 2023.

With Korakrit Poonsuk, Carita Kordik, Matthew Hille, Bruce Brodersen et al. Detection of *Mannheimia haemolytica*-Specific IgG, IgM and IgA in sera and their relationship to respiratory disease in cattle. *Animals*. May 12, 2023.

Kate Lyons

Biological Sciences

With F.A. Smith, E.A. Elliott Smith, A. Villaseñor et al. The missing pieces: Changes in the ecological niche of a mammal community in North America over the late Quaternary. *Proceedings of the National Academy of Sciences*. Sept. 19, 2022.

David Macaulay University Libraries

Applications of diversity language to descriptions of collection development activities at academic libraries: An exploratory analysis of strategic plans and diversity information webpages. *The Journal of Academic Librarianship*. May 31, 2023.

Elsbeth Magilton Law/
Space, Cyber, and Telecommunications Law

Science and strength: The history of the relationship between civil and military space organizations in the United States. *Proceedings of the 73rd International Astronautical Congress (IAC)*. Sept. 1, 2022.

Arindam Malakar Nebraska Water Center/Natural Resources

With Jennifer A. Cooper, Michael Kaiser. Self-functionalization of soilaged biochar surfaces increases nitrate retention. *Science of the Total Environment*. Nov. 28, 2022.

With Bagdat Satybaldiyev, Daniel D. Snow et al. Evaluation of dissolved and acid-leachable trace element concentrations in relation to practical water quality standards in the Syr Darya, Aral Sea basin, South Kazakhstan. *Chemosphere*. Dec. 2, 2022.

With Sahila Beegum, Chittaranjan Ray, Daniel D. Snow. Importance of snowmelt on soil nitrate leaching to groundwater — A model study. *Journal of Contaminant Hydrology*. Feb. 13, 2023.

With Lidong Li, Jordan Shields, Daniel D. Snow, Michael Kaiser. Short communication: Labile carbon and soil texture control nitrogen transformation in deep vadose zone. *Science of the Total Environment*. March 22, 2023.

With Bagdat Satybaldiyev, Daniel D. Snow et al. Downstream hydrochemistry and irrigation water quality of the Syr Darya, Aral Sea basin, South Kazakhstan. *Water Supply*. May 4, 2023.

Alex Mason Center for Research on Children, Youth, Families and Schools/Child, Youth and Family Studies

With Matthew C. Lambert, Michael H. Epstein. Differences in emotional and behavioral problems of students over time: A 22-year cross-sectional cohort study. Research on Child and Adolescent Psychopathology, July 11, 2022.

With Jamy Rentschler, Patrick Habecker, Les B. Whitbeck. Social network analysis of diffusion among American Indian youth in a culturally adapted, family-focused prevention program. *Prevention Science*. Jan. 17, 2023.

Julia McQuillan Sociology

With Trish Wonch Hill, Joseph Jochman, Grace Kelly. Decline is not inevitable: Changes in science identity during the progression through a U.S. middle school among boys and girls. *Socius*. Feb. 25, 2023.

Samuel Melessa Accountancy

With W. Chen, P. Hribar. Standard error biases when using generated regressors in accounting research. *Journal of Accounting Research*. May 1, 2023.

Joseph Mendola Philosophy

Property identity and the supervenience argument. *Protosociology*. Feb. 1, 2023.

Deepika Menon

Teaching, Learning and Teacher Education/ Center for Science, Mathematics and Computer Education

With C.R. Smith, Annette Wierzbicki, Jenny M. Dauer. Exploring STEM teaching assistants' self-efficacy and its relation to approaches to teaching. *CBE-Life Sciences Education*. Jan. 13, 2023.

With C.R. Smith, Annette Wierzbicki, Jenny M. Dauer. Teaching assistants' responses to COVID-19: Investigating relationships between stress, self-efficacy and approaches to teaching. *Journal of College Science Teaching*. Jan. 30, 2023.

With Diana Cheng, W.R. Ngugi. Investigating preservice secondary teachers' understanding and enactment of the standards-based practices during microteaching. *Journal for STEM Education Research*. April 5, 2023.

With Deef A. Al Shorman, Derek Cox, Amanda Thomas. Preservice elementary teachers' integrated STEM teaching self-efficacy. *Educational Sciences*. May 22, 2023.

Sarah Michaels Political Science/Public Policy Center

Differentiating between urban flood risk as a unitary problem and as a strand in a braided problem set: Implications for administrative coordination. *PLOS Water.* March 24, 2023.

Alakananda Mitra

Nebraska Water Center

With Dan Bigioi, Saraju P. Mohanty, Peter Corcoran, Elias Kougianos. iFace 1.1: A proof-of-concept of a facial authentication based digital ID for smart cities. *IEEE Access.* July 1, 2022.

With Sarang Goel, Saraju P. Mohanty, Elias Kougianos, Laavanya Rachakonda. iLog 2.0: A novel method for food nutritional value automatic quantification in smart healthcare. *Proceedings of the IEEE International Symposium on Smart Electronic Systems (iSES)*. Feb. 2, 2023.

Etsuko Moriyama

Biological Sciences

With L. Gan, K. Park, J. Chai, J.P. Mower, E.B. Cahoon et al. Divergent evolution of extreme production of variant plant monounsaturated fatty acids. *Proceedings of the National Academy of Sciences*. July 22, 2022.

Regis Moreau Nutrition and Health Sciences

With H. Kaur. Raptor knockdown concurrently increases the electrical resistance and paracellular permeability of Caco-2 cell monolayers. *Life Sciences*. Nov. 1, 2022.

Jeffrey P. Mower Agronomy and Horticulture

With Xiao-Jian Qu, Xue-Jie Zhang, Dong-Ling Cao et al. Plastid and mitochondrial phylogenomics reveal correlated substitution rate variation in *Koenigia* (Polygonoideae, Polygonaceae) and a reduced plastome for *Koenigia delicatula* including loss of all *ndh* genes. *Molecular Phylogenetics and Evolution*. Sept. 1, 2022.

With Runxian Yu, Xudong Chen, Lingjie Long et al. De novo assembly and comparative analyses of mitochondrial genomes in piperales. *Genome Biology and Evolution*. March 10, 2023.

Sathish Kumar Nataraian

Nutrition and Health Sciences

With P.K. Sahoo. Trophoblast changes in maternal obesity. *Diabesity*. June 9, 2022.

With T.J. Neltner, P.K. Sahoo, R.J. Schmidt, T.J. Housh et al. Effects of 8 weeks of Shilajit supplementation on serum pro-c1a1, a biomarker of type 1 collagen synthesis: A randomized control trial. *Journal of Dietary Supplements*. Sept. 1, 2022.

With M. Thompson, A. Ulu, A.G. Yuil-Valdes et al. Something smells fishy: How lipid mediators impact neonatal development and the maternal-fetal interface. *Biomedicines*. Jan. 10, 2023.

With P.G. Muthuraj, C. Krishnamoorthy, C. Hanson, A. Anderson-Berry. Novel therapeutic nutrient molecules that protect against Zika virus infection with a special note on palmitoleate. *Nutrients*. Jan. 15, 2023.

Mehrdad Negahban

Mechanical & Materials Engineering

With Jianlin Yi, Zhaoyang Ma, Rongyu Xia et al. Structural periodicity dependent scattering behavior in parity-time symmetric elastic metamaterials. *Physical Review B*. July 8, 2022.

With Lixie Song, Zhong Chen, Lei Liang et al. Ultrathin coding metasurface for underwater wave focusing, branching and self-bending generation with one single actuator. *Modern Physics Letters B.* July 30, 2022.

With Rongyu Xia, Shixuan Shao, Jianlin Yi et al. Tunable asymmetric transmission of Lamb waves in piezoelectric bimorph plates by electric boundary design. *Composite Structures*. Nov. 15, 2022.

With Wenlong Li, Jean-Marc Saiter, Laurent Delbreilh et al. Traversing with quantitative fidelity through the glass transition of amorphous polymers: Modeling the thermodynamic dilatational flow of polycarbonate. *Journal of Rheology*. May 1, 2023.

Stanislava Nikolova

Finance

With S. Murray. The bond-pricing implications of rating-based capital requirements. *Journal of Financial and Quantitative Analysis*. Sept. 1, 2022.

Dan Novy Johnny Carson Center for Emerging Media Arts

With Lui Kawasumi, Jon Ferguson, Margaret Sullivan et al. Maka Niu: A low-cost, modular imaging and sensor platform to increase observation capabilities of the deep ocean. *Frontiers in Marine Science*. Nov. 17, 2022.

Jonathan O'Brien Management

With C.M. Carnes, J. Cavanaugh, P. David. Cash creates value for supply chain systems, but who reaps the benefits? *Journal of Business Research*. June 1, 2023.

Peter Olshavsky

Architecture

Michael's mouth. Log. Oct. 5, 2022.

David L. Olson Supply Chain Management and Analytics

With Desheng Wu, James H. Lambert. Data analytics and decison-making systems: Implications of the global outbreaks. *Decision Support Systems*. July 15, 2022.

With D. Wu, X. Ma. Financial distress prediction using integrated Z-score and multilayer perceptron neural networks. *Decision Support Systems*. July 15, 2022.

With Bongsug Chae. A study of data mine balancing and variable reduction. *Journal of Supply Chain Management Science*. Aug. 15, 2022.

With Bongsug Chae. Mapping the evolution of social media analytics research in operations and supply chain management: A bibliometric analysis. *Journal of Supply Chain and Operations Management*. Oct. 15, 2022.

With D. Wu, Q. Wang. Industry classification based on supply chain network information using graph neural networks. *Applied Soft Computing*. Jan. 1, 2023.

With D. Wu, Q. Wang. Industry classification based on supply chain network information using graph neural networks. *Applied Soft Computing*. Jan. 15, 2023.

With Y. Cheng, F. Wen, Y. Wang. Who should finance the supply chain? Impact of accounts receivable mortgage on supply chain decision. *Journal of Production Economics*. April 15, 2023.

Kristen Olson Sociology

With Rachel Stenger, Jolene D. Smyth. Comparing readability measures for self-administered survey questions. *Field Methods*. Oct. 14, 2022.

With Nestor Hernandez, Jolene D. Smyth. "Are you ...": An examination of incomplete question stems in self-administered surveys. *Field Methods*. Oct. 18, 2022.

With Jerry Timbrook, Jolene D. Smyth. Your best estimate is fine. Or is it? *Journal of Official Statistics*. Dec. 2, 2022.

Kendra L. Ordia Interior Design

Nature-centered interiority as an urban social-spatial ecology. *Interiors: Design, Art, Culture.* March 30, 2023.

Ciara L. Ousley Special Education and Communication Disorders

With T.J. Raulston, C.S. Gilhuber. Incorporating video feedback within a parent-implemented naturalistic developmental behavioral intervention package via telepractice. *Topics in Early Childhood Special Education*. Aug. 9, 2022.

With N.B. Bhana, T.J. Raulston, A. Bagawan. Sequential analysis of photographs and parent training to support conversations about past events between caregivers and children with autism. *Advances in Neurodevelopmental Disorders*. May 2, 2023.

Jae Sung Park Mechanical & Materials Engineering

With Siamak Mirfendereski. Multiscale nature of electric-field-induced structural formations in non-colloidal suspensions. *Soft Matter.* Aug. 26, 2022.

Rvan M. Pedrigi

Mechanical & Materials Engineering

With Morgan A. Schake, Ian S. McCue, Evan T. Curtis, Thomas J. Ripperda, Jr., Samuel Harvey, Bryan T. Hackfort, Anna Fitzwater, Yiannis S. Chatzizisis, Forrest M. Kievit. Restoration of normal blood flow in atherosclerotic arteries promotes plaque stabilization. *iScience*. April 27, 2023.

Jennifer J. PeeksMease Office of Diversity and Inclusion

As Jennnifer J. Mease, with Bronwyn Neal. Paradox as resistance in male dominated fields and the value of (sur)facing enthymematic narrative. *Gender, Work & Organization*. April 13, 2023.

Jessica L. Petersen Animal Science/Biological Sciences

With Carrie S. Wilson, Harvey D. Blackburn, Ronald M. Lewis, Christopher Seabury. Assessing population structure and genetic diversity in U.S. Suffolk sheep to define a framework for genomic selection. *Journal of Heredity*. July 8, 2022.

With S.J. Valberg, Z. Williams, C.J. Finno et al. Type 2 polysaccharide storage myopathy in quarter horses is a novel glycogen storage disease causing exertional rhabdomyolysis. *Equine Veterinary Journal*. Aug. 16, 2022.

With E. Klouth, Y. Zablotski, C.M. de Bruijn et al. Epidemiological aspects of equid herpesvirus-associated myeloencephalopathy (EHM) outbreaks. *Viruses*. Nov. 21, 2022.

With S.C. Peng, A.R. Dahlgren, C.G. Donnelly et al. Functional annotation of the animal genomes: An integrated annotation resource for the horse. *PLOS Genetics*. March 2, 2023.

With S.J. Valberg, M.L. Henry, K.L. Herrick et al. Absence of myofibrillar myopathy in quarter horses with a histopathologic diagnosis of type 2 polysaccharide storage myopathy and lack of association with commercial genetic tests. *Equine Veterinary Journal*. March 2, 2023.

Nora M. Peterson

Modern Languages and Literatures

"Il me prit un frisson si grand": Writing the body in the mémoires and letters of Marguerite de Valois. *Early Modern Women: An Interdisciplinary Journal*. Sept. 1, 2022.

Jenna Pieper Management

With V. Titus, Jr., M. Josefy, T.M. Welbourn. How does your garden grow? The interface of employee and sales growth post IPO. *Strategic Entrepreneurship Journal*. Dec. 1, 2022.

With M.A. Maltarich, A.J. Nyberg, G. Reilly, C. Ray. Collective turnover response over time to a unit-level shock. *Journal of Applied Psychology*. June 1, 2023.

Kevin Pitt Special Education and Communication Disorders

With Zachary J. Cole, Joshua Zosky. Applying functional animation to pictorial symbols for supporting brain-computer interface access to augmentative and alternative communication devices by children. *International Journal of Human-Computer Interaction*. Sept. 13, 2022.

Wen Qian Mechanical & Materials Engineering

With Kaleb Hood, Yi Xia, Joseph A. Turner et al. Self-assembly of exfoliated graphene flakes as anticorrosive coatings for additive manufactured steels. *Results in Surfaces and Interfaces 11*. May 5, 2023.

With Sonja Gamsjaeger, Eleftherios P. Paschalis, Joseph A. Turner et al. Bone intrinsic material and compositional properties in postmenopausal women diagnosed with long-term type-1 diabetes. *Bone*. June 27, 2023.

Truyen Quach Agronomy and Horticulture

With Hanh Nguyen, Ming Guo, Tom Elmo Clemente, Chi Zhang et al. Expression of AtWRI1 and AtDGAT1 during soybean embryo development influences oil and carbohydrate metabolism. *Plant Biotechnology Journal*. July 1, 2023.

Brett Ratcliffe Entomology

With L. Figueroa, J. Neita-Moreno. A review of the genus *Colacus* Ohaus, 1910 (Coleoptera: Scarabaeidae: Dynastinae: Agaocephalini) with description of a new species from Peru. *The Coleopterists Bulletin*. March 17, 2023.

With M. Seidel. *Cyclocephala ignota*, a new species of *Cyclocephala* Dejean, 1821 from Bolivia (Coleoptera: Scarabaeidae: Dynastinae: Cyclocephalini). *The Coleopterists Bulletin*. March 17, 2023.

With K. Kobayashi. A new species of *Spodochlamys* Burmeister, 1855 (Coleoptera: Scarabaeidae: Rutelinae: Anatistini) from Colombia and a key and checklist of *Spodochlamys* species. *The Coleopterists Bulletin*. March 17, 2023.

With S. Le Tirant. Description of a new species of *Stenocrates* Burmeister (Coleoptera: Scarabaeidae: Dynastinae: Cyclocephalini) from Peru and a revised catalog of the species of *Stenocrates*. *Faunataxys*. April 1, 2023.

Heather Richards-Rissetto

Global Integrative Studies (Anthropology)/Center for Digital Research in the Humanities

With Amy E. Thompson, John P. Walden, Adrian S.Z. Chase, Scott R. Hutson et al. Ancient lowland Maya neighborhoods: Average nearest neighbor analysis and kernel density models, environments, and urban scale. *PLOS ONE*. Nov. 2, 2022.

Arman Roohi Computing

With Mohammed H. Alali, Shaahin Angizi, Jitender S. Deogun. Enabling intelligent iots for histopathology image analysis using convolutional neural networks. *Micromachines*. Aug. 22, 2022.

With Navid Khoshavi, Mohammad Maghsoudloo, Saman Sargolzaei, Yu Bi. HARDeNN: Hardware-assisted attack-resilient deep neural network architectures. *Microprocessors and Microsystems*. Nov. 1, 2022.

With Ranyang Zhou, Sepehr Tabrizchi, Shaahin Angizi. LT-PIM: An LUT-based processing-in-DRAM architecture with RowHammer self-tracking. *IEEE Computer Architecture Letters*. Nov. 7, 2022.

With Sepehr Tabrizchi, Ali Nezhadi, Shaahin Angizi. AppCiP: Energyefficient approximate convolution-in-pixel scheme for neural network acceleration. *IEEE Journal on Emerging and Selected Topics in Circuits and Systems.* Feb. 3, 2023.

With Fereshteh Karimi, Reza Faghih Mirzaee, Ali Fakeri-Tabrizi. Design and evaluation of ultra-fast 8-bit approximate multipliers using novel multicolumn inexact compressors. *International Journal of Circuit Theory and Applications*. April 3, 2023.

With Shaahin Angizi, Mehrdad Morsali, Sepehr Tabrizchi. A nearsensor processing accelerator for approximate local binary pattern networks. *IEEE Transactions on Emerging Topics in Computing*. June 19, 2023.

Milad Roohi

Durham School of Architectural Engineering and Construction

With Saeide Farahani, Ali Shojaeian, Behrouz Behnam. Probabilistic seismic multi-hazard risk and restoration modeling for resilience-informed decision making in railway networks. Sustainable and Resilient Infrastructure. Aug. 27, 2022.

With Milad Cheraghzade. Deep learning for seismic structural monitoring by accounting for mechanics-based model uncertainty. *Journal of Building Engineering*. Oct. 1, 2022.

Rebecca L. Roston

Biochemistry/ Center for Plant Science Innovation

With Hongbo Gao, Allistair McCormick, Yan Lu. Editorial: Structure and function of chloroplasts (Volume III). *Frontiers in Plant Science*. Feb. 16, 2023.

With Aline Rodrigues de Queiroz, Connor Hines, Jeremy Brown, Seema Sahay, Jithesh Vijayan, Katarzyna Glowacka, Nicole R. Buan et al. The effects of exogenously applied antioxidants on plant growth and resilience. *Phytochemistry Reviews*. April 1, 2023.

John Ruberson Entomology

With Blessing Ademokoya, Kacie Athey. Natural enemies and biological control of stink bugs (Hemiptera: Heteroptera) in North America. *Insects*. Oct. 14, 2022.

Blake Runnalls Marketing

With Troy A. Smith, Artemis Boulamatsi, Nikos Dimotakis et al. How dare you? A self-verification perspective on how performance influences the effects of abusive supervision on job embeddedness and subsequent turnover. *Personnel Psychology*. Oct. 1, 2022.

With Nikos Dimotakis, Lisa Lambert, Troy A. Smith et al. Gains and losses: Week-to-week changes in leader-follower relationships. *Academy of Management Journal*. Feb. 1, 2023.

Sabrina Russo

Biological Sciences

With R. Nisbet, E. Muller, G. Ledder. Dynamic energy budget models: Fertile ground for understanding resource allocation in plants in a changing world. *Conservation*. Sept. 15, 2022.

With D. Dent, L.G. Lohmann, J.S. Powers. ATBC 2022 student and early career awards. *Biotropica*. Oct. 27, 2022.

Jennifer Ryan Supply Chain Management and Analytics

With L. Shao, D. Sun. Contracting mechanisms for stable sourcing networks. *Manufacturing and Service Operations Management*. Sept. 1, 2022.

S. Sajeesh Marketing

With Özgür Araz, Terry T.K. Huang. Market positioning in food industry in response to public health policies. *Production and Operations Management Journal*. July 1, 2022.

With Ashutosh Singh, Pradeep Bhardwaj. Optimal checkout strategies for online retailers. *Journal of Retailing*. Oct. 1, 2022.

With Michael T. Lash, Özgür Araz. Predicting mobility using limited data during early stages of a pandemic. *Journal of Business Research*. March 1, 2023.

Loukia K. Sarroub Teaching, Learning and Teacher Education

With M.M. Juzwik, R.J. LeBlanc, D. Davila, E.D. Rackley. Spiritual and religious meaning making in language and literacy studies: Global perspectives on teaching, learning, curriculum, and policy. *English Teaching: Practice and Critique*. March 30, 2023.

Rachel E. Schachter

Child, Youth and Family Studies

With H. Hatton-Bowers, H. Jackson, L.L. Knoche. An exploratory study of early childhood coaches' practices and professional learning needs. *Early Years: An International Journal*. Aug. 8, 2022.

With L. Cutler, M. Gabas, S.B. Piasta et al. Patterns of classroom organization in classrooms where children exhibit higher and lower language gains. *Early Education and Development*. Aug. 15, 2022.

With C. Gabas, L. Cutler. Making mistakes: Children's errors as opportunities for emergent literacy learning. *The Reading Teacher*. Dec. 8, 2022.

With Pearl Avari, Erin Hamel, Holly Hatton-Bowers. Communication with families: Understanding the perspectives of early childhood teachers. *Journal of Early Childhood Research*. Dec. 12, 2022.

With G. Yeomans-Maldonado, S.B. Piasta. Early childhood teachers' emergent literacy data practices. *Journal of Literacy Research*. March 15, 2023.

With J. Dwyer, A. Ward. What do early childhood educators know about supporting children's language development? The added value of measuring knowledge-in-use. *Journal of Early Childhood Teacher Education*. March 20, 2023.

Philip Schwadel Sociology

With Sam A. Hardy, H. Dorian Hatch, Jenae M. Nelson. Family religiousness, peer religiousness, and religious community supportiveness as developmental contexts of adolescent and young adult religious deidentification. *Research in Human Development*. July 8, 2022.

With Sam A. Hardy, Justin Hendricks, Jenae M. Nelson. Declines in religiousness dimensions across adolescence as predictors of religious deidentification in youth adulthood. *Journal of Research on Adolescence*. July 22, 2022.

With Christopher R.H. Garneau. Examining the influence of political affiliation and orientation on political tolerance. *Socius*. Aug. 31, 2022.

Bonita Sharif Computing

With V. Zyrianov, C. Peterson, D. Guarnera et al. Deja vu: Semantics-aware recording and replay of high-speed eye tracking and interaction data to support cognitive studies of software engineering tasks — Methodology and analyses. *Empirical Software Engineering Journal*. Sept. 20, 2022.

With J. Behler, P. Weston, D. Guarnera, J. Maletic. iTrace-Toolkit: A pipeline for analyzing eye-tracking data of software engineering studies. *45th International Conference on Software Engineering*. May 14, 2023.

With N. Mansoor, H. Bagheri, E. Kang. An empirical study assessing software modeling in alloy. *International Conference on Formal Methods in Software Engineering*. May 14, 2023.

With S. Aljehane, J. Maletic. Studying developer eye movements to measure cognitive workload and visual effort for expertise assessment. *Proceedings of the ACM on Human-Computer Interaction*. May 30, 2023.

With A. Bansal, C. McMillan. Towards modeling human attention from eye movements for neural source code summarization. *Proceedings of the ACM on Human-Computer Interaction*. May 30, 2023.

Susan Sheridan Educational Psychology/Nebraska Center for Research on Children, Youth, Families and Schools

With K.C. Cheng, A.L. Witte, L.A. Wheeler et al. Examining long-term intervention effects to promote teacher problem-solving and communication skills in the rural context. *School Psychology*. Sept. 2022.

With A.L. Witte, A. Prokasky, C. Boise, G. Nugent. Conflict, concern, and chaos: Educator experiences in Nebraska during the COVID-19 pandemic. *Great Plains Research*. Spring, 2023.

With L.L. Knoche, C.E. Boise, K. Cheng. Promoting expressive language skills for preschool children with developmental concerns: Effects of a parent–educator partnership intervention. *Elementary School Journal*. June 1, 2023.

Daniel D. Snow Nebraska Water Center/Natural Resources

With Abdullateef Lawal, Moshood N. Tijani, Matteo D'Alessio. Quality and hydrochemical assessment of groundwater in geological transition zones: A case study from NE Nigeria. *Environmental Science and Pollution Research*. Jan. 1, 2023.

With Bagdat Satybaldiyev, Baimurat Ismailov, Arindam Malakar et al. Evaluation of dissolved and acid-leachable trace element concentrations in relation to practical water quality standards in the Syr Darya, Aral Sea Basin, South Kazakhstan. *Chemosphere*. Feb. 1, 2023.

With D.S. Allen, A.S. Kolok, S.L. Bartelt-Hunt et al. Predicted aquatic and human health risks associated with the presence of metals in the Syr Darya and Shardara Reservoir, Kazakhstan. Science of The Total Environment. Feb. 10, 2023.

With Mariya A. Severinenko, Vladimir P. Solodukhin, Bekmamat M. Djenbaev et al. Occurrence of radionuclides and hazardous elements in the Transboundary River Basin Kyrgyzstan–Kazakhstan. *Water*. March 5, 2023.

With Sahila Beegum, Arindam Malakar, Chittaranjan Ray. Importance of snowmelt on soil nitrate leaching to groundwater — A model study. *Journal of Contaminant Hydrology*. April 1, 2023.

With Bagdat Satybaldiyev, Baimurat Ismailov, Arindam Malakar et al. Downstream hydrochemistry and irrigation water quality of the Syr Darya, Aral Sea Basin, South Kazakhstan. *Water Supply*. May 1, 2023.

With Chanat Chokejaroenrat, Chainarong Sakulthaew, Steve D. Comfort et al. Enhanced degradation of herbicides in groundwater using sulfur-containing reductants and spinel zinc ferrite activated persulfate. Science of The Total Environment. June 7, 2023.

With Lidong Li, Jordan Shields, Michael Kaiser, Arindam Malakar. Labile carbon and soil texture control nitrogen transformation in deep vadose zone. *Science of the Total Environment*. June 23, 2023. Leen-Kiat Soh Computing

With C. Pack, Y. Liu, E. Lorang. Augmentation-based pseudogroundtruth generation for deep learning in historical document segmentation for greater levels of archival description and access. *Journal on Computing and Cultural Heritage*. Sept. 16, 2022.

With P. Sharma, A. Samal, D. Joshi. A spatially-aware algorithm for location extraction from structured documents. *Geoinformatica*. Nov. 4, 2022.

With A.E. Flanigan, M. Peteranetz, D. Shell. Relationship between implicit intelligence beliefs and maladaptive self-regulation of learning. ACM Transactions on Computing Education. June 20, 2023.

With A. Adhikari, D. Joshi, A. Samal, R. Werum. Agent-based modeling of the spread of social unrest using infectious disease models. *IEEE Transactions on Spatial Algorithms and Systems*. June 23, 2023.

Changsoo Song Psychology

With Resa Helikar, Wendy Smith, Tomas Helikar. Factors influencing instructors' adoption and continued use of computing science technologies: A case study in the context of Cell Collective. CBE Life Sciences Education. June 6, 2023.

Roberto Stein Finance

'Smart' copycat mutual funds: on the performance of partial imitation strategies. *Financial Innovation*. Oct. 27, 2022.

Are mutual fund managers good gamblers? *Journal of Financial Markets*. June 1, 2023.

Jay Storz Biological Sciences

With E.B. Linck, J.L. Williamson, E. Bautista et al. Blood variation implicates respiratory limits on elevational ranges of Andean birds. *The American Naturalist*. Sept. 27, 2022.

With C. Natarajan, A.V. Signore, N.M. Bautista et al. Evolution and molecular basis of a novel allosteric property of crocodilian hemoglobin. *Current Biology*. Dec. 21, 2022.

Sunil K. Sukumaran Nutrition and Health Sciences

With Yumei Qin, Salin Raj Palayyan, Xin Zheng et al. Type II taste cells participate in mucosal immune surveillance. *PLOS Biology.* Jan. 12, 2023.

Teck Yong Tan Economics

Optimal transparency of monitoring capability. *Journal of Economic Theory*. April 1, 2023.

With Anh Nguyen. Markets with within-type adverse selection. *American Economic Journal: Microeconomics*. May 1, 2023.

Brigitte Tenhumberg Biological Sciences/Mathematics

With A.S. Dellinger, S.D. Smith. Modeling pollinator and non-pollinator selection on flower color variation. *Journal of Ecology*. July 27, 2022.

With A.N. Laubmeier, N. Tabassum. Temperature fluctuation alters optimal predator community composition for anticipated biological control. *Frontiers in Ecology and Evolution*. Jan. 23, 2023.

Brenden Timpe Economics

With Avery Calkins, Ariel J. Binder, Dana Shaat. When Sarah meets Lawrence: The effects of coeducation on women's college major choices. *American Economic Journal: Applied Economics*. July 2023.

Varkey Titus, Jr. Management

With R. Mui, O. Parker. Merit versus maleness: How strategic positioning can mitigate external gender bias. *Business Horizons*. July 1, 2022.

With J.R. Pieper, M. Josefy, T.M. Welbourn. How does your garden grow? The interface of employee and sales growth post IPO. *Strategic Entrepreneurship Journal*. Dec. 1, 2022.

Guy Trainin Teaching, Learning and Teacher Education

With Q. Deng. The effect of a self-regulated intervention on vocabulary knowledge and self-regulated learning skills for English language learners. *Reading Psychology*. March 6, 2023.

With S. Wessels. From bilingual to biliteracy: Learning from families. *Early Childhood Education Journal*. June 29, 2023.

Robert D. Twomey Johnny Carson Center for Emerging Media Arts

Domestic, ubiquitous, smart: Situated computing in the intimate everyday. manege für architektur. July 20, 2022.

Three stage drawing transfer. *Proceedings of the ACM on Computer Graphics and Interactive Techniques*. Sept. 7, 2022.

Mark van Roojen

Explaining supervenience. Filosofiska Notiser. May 31, 2023.

Adam Wagler

Advertising and Public Relations

Philosophy

Teaming up with technology developers in STEM: A capstone advertising campaigns course collaborations with engineering and computer science. *Journal of Advertising Education*. Nov. 30, 2022.

With J. Martin, K. Mesropov. The Experience Lab: Student-run media platforms from day one at scale. *Teaching Journalism and Mass Communications*. Dec. 1, 2022.

Jessica Walsh Journalism

With Mildred Perreault. What's with the water: The nature of reporting on the problem of nitrates in Nebraska. *Newspaper Research Journal*. Jan. 3, 2023.

With K. Kiewra, C. Labenz. Moving beyond fulfillment: Wisdom years stories of passion, perseverance, and productivity. *Educational Psychology Review*. Feb. 10, 2023.

Bryan Wang

Advertising and Public Relations

With J. Choong. Disruptive and destructive? A typology of social bots in public relations. *Journal of Digital and Social Media Marketing*. Jan. 1, 2023.

Ran Wang Natural Resources

With J.A. Gamon, J. Cavender-Bares. Seasonal patterns of prairie spectral diversity at leaf and canopy scales. *Remote Sensing of Environment*. July 16, 2022.

With J.A. Gamon, A.I. Zygielbaum, T.J. Arkebauer, A. Suyker et al. Harmonizing solar induced fluorescence across spatial scales, instruments, and extraction methods using proximal and airborne remote sensing: A multi-scale study in a soybean field. *Remote Sensing of Environment*. Sept. 15, 2022.

With J.A. Gamon, S.E. Russo. Contrasting photoprotective responses of forest trees revealed using PRI light responses sampled with airborne imaging spectrometry. *New Phytologist*. Jan. 19, 2023.

Lorey A. Wheeler

Nebraska Center for Research on Children, Youth, Families and Schools

With C.F. Miller, D. Chen, B. Woods, M. Reisslein. Development and validation of a suite of measures for children's achievement beliefs in engineering-related activities and skills (ERAS). *European Journal for Engineering Education*. Jan. 23, 2023.

Amanda L. Witte

Nebraska Center for Research on Children, Youth, Families and Schools

With Amanda Prokasky, Courtney Boise, Susan Sheridan, Gwen Nugent. Concern, conflict, and chaos: Educator experiences in Nebraska during the COVID-19 pandemic. *Great Plains Research*. June 1, 2023.

Trish Wonch Hill

Center for Science, Mathematics and Computer Education

With Stephen G. Salzbrenner, Carrie McAdam-Marx, Maxwell Lydiatt et al. Perceptions of prior authorization by use of electronic prior authorization software: A survey of providers in the United States. *Journal of Managed Care + Specialty Pharmacy.* Oct. 28, 2022.

With Judy Diamond, Amy N. Spiegel, Elizabeth VanWormer, Meghan Leadabrand, Julia McQuillan. Accuracy of COVID-19 relevant knowledge among youth: Number of information sources matters. *PLOS ONE*. Dec. 27, 2022.

Robert H. Woody

Glenn Korff School of Music

University musicians' use of component cognitive skills in practice: A self-report study. *Psychology of Music*. June 7, 2022.

Student-directed learning in popular musicianship: An action research study of university music students. *International Journal of Music Education*, Jan. 31, 2023.

Robert Wright Entomology

With Arthur V. Ribeiro, Rafael Carlesso Aita, Thomas E. Hunt et al. Optimization of sample size unit size for sampling stink bugs in Midwest soybean. *Crop Protection*. July 1, 2022.

With Douglas Lawton, Anders Huseth, Thomas E. Hunt, Julie Peterson et al. *Helicoverpa zea* population dynamics are driven by a continental overwintering gradient. *Proceedings of the National Academy of Sciences*. Sept. 22, 2022.

Brenda Wristen

Glenn Korff School of Music

Should we always change fingers on repeated notes? *American Music Teacher.* April 1, 2023.

Julie Wu Finance

With Emre Unlu, Megan Rainville. How do stronger creditor rights impact corporate acquisition activity and quality? *Journal of Banking and Finance*. Nov. 1, 2022.

Tadeusz A. Wysocki

Electrical and Computer Engineering

With Marissa L. Miller, Deborah M. Brown. Modeling an immune response to influenza A virus infection in alveolar epithelial cells. *Biotechnology and Bioengineering*. Nov. 15, 2022.

With Sylwester M. Kloska, Krzysztof Pałczyński, Tomasz Marciniak et al. Queueing theory model of mTOR complexes' impact on Aktmediated adipocytes response to insulin. *PLOS ONE*. Dec. 27, 2022.

With Adam Flizikowski, Tomasz Marciniak, Olutayo Oyerinde. Selected aspects of non orthogonal multiple access for future wireless communications. *Mathematics in Computer Science*. Feb. 6, 2023.

With Denis Shitov, Elena Pirogova, Margaret Lech. Deep reinforcement learning for articulatory synthesis in a vowel-to-vowel imitation task. *Sensors*. March 24, 2023.

Shi-Hua Xiang Veterinary Medicine and Biomedical Sciences/ Nebraska Center for Virology

With Leah Liu Wang, Leslie Estrada, Joshua Wiggins et al. Ligand-based design of peptide entry inhibitors targeting the endosomal receptor-binding site of filoviruses. *Antiviral Research*. Oct. 1, 2022.

With F. Shahjin, M. Patel, M. Hasan et al. Development of a porous layer-by-layer microsphere with branched aliphatic hydrocarbon porogens. *Nanomedicine*. Feb. 1, 2023.

With F. Shahjin, M. Patel, J. Machhi et al. Multipolymer microsphere delivery of SARS-CoV-2 antigens. *Acta Biomaterials*. March 1, 2023.

Yiqi Yang

Textiles, Merchandising and Fashion Design/ Biological Systems Engineering

With B.N. Mu, E. Kelly, B. George. Formaldehyde-free sugarcane-derived aldehydes to co-crosslink silk fabrics with diols for improving wet resilience and minimizing pollutions from wet processing of silk. *Industrial Crops and Products*. Dec. 1, 2022.

With B.N. Mu, L. Xu. Rational fabrication of completely amorphous chitosan-formyl-sucrose sorbents with excellent durability and regenerability for high-throughput dye removal. *Chemical Engineering Journal*. April 1, 2023.

With B.N. Mu. Fine and high-performance wool fibers from meat goat hairs via manipulation of keratin alignment and crosslinkages. *Waste Management*. May 1, 2023.

With B.N. Mu, Y.Y. Shao, L. McBride, H. Hidalgo. Rapid fiber-to-fiber recycling of poly(ethylene terephthalate) and its disperse dye from waste textiles without damaging their chemical structures. *Resources, Conservation and Recycling*. July 1, 2023.

Yuxi Yao Economics

Accounting for the decline in homeownership among the young. *Contemporary Economic Policy*. Jan. 1, 2023.

Shengchao Zhuang

Finance

With P. Boyle, K.S. Tan, P. Wei. Annuity and insurance choice under habit formation. *Insurance: Mathematics and Economics*. July 1, 2022.

With Y. Chi, J. Zheng. S-shaped narrow framing, skewness and the demand for insurance. *Insurance: Mathematics and Economics*. July 1, 2022.

With Y. Chi, X. Zuoquan. Distributionally robust goal-reaching optimization in the presence of background risk. *North American Actuarial Journal*. Aug. 1, 2022.

With H. Meng, P. Wei, W. Zhang. Optimal dynamic reinsurance under heterogeneous beliefs and CARA utility. *SIAM Journal on Financial Mathematics*. Sept. 1, 2022.

Robert M. Zink

Natural Resources/ University of Nebraska State Museum/ Biological Sciences

With L.B. Klicka. The taxonomic basis of subspecies listed as threatened and endangered under the endangered species act. *Frontiers in Conservation Science*. Sept. 26, 2022.

Past, present and future distribution of sandhill cranes (*Antigone canadensis*) with special reference to Nebraska. *Platte River Natural Resource Reports e Journal*. Nov. 29, 2022.

With G.M. Spellman, R. Canales-del-Castillo, K. Epperly, J. Klicka. Mitochondrial DNA phylogeography of the bushtit (*Psaltriparus minimus*). *The Wilson Journal of Ornithology*. Feb. 22, 2023.

With J. Klicka, K. Epperly, B.T. Smith et al. Lineage diversity in a widely distributed New World passerine bird, the house wren. *Ornithology.* April 22, 2023.

CMS COLLABORATION:

Ken Bloom, Dan Claes, Frank Golf, Ilya Kravchenko et al.

Physics and Astronomy

The CMS Collaboration comprises more than 4,000 particle physicists, engineers, computer scientists, technicians and students from around 200 institutes and universities from more than 40 countries.

The collaboration operates and collects data from the Compact Muon Solenoid, one of the general-purpose particle detectors at CERN's Large Hadron Collider in Geneva, Switzerland.

In keeping with CERN's commitment to open access for high-energy physics, the scientific results from CMS are shared openly with the world. A number of faculty members in UNL's Department of Physics and Astronomy are part of the CMS Collaboration and have contributed to an impressive body of literature over the past year.

Performance of the local reconstruction algorithms for the CMS hadron calorimeter with Run 2 data. *Journal of Instrumentation*. June 17, 2023.

Observation of new structure in the $J/\psi J/\psi$ mass spectrum in proton-proton collisions at $\sqrt{s}=13$ TeV. *Physical Review Letters*. June 12, 2023.

Search for the lepton-flavor violating decay of the Higgs boson and additional Higgs bosons in the e μ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. *Physical Review D.* May 29, 2023.

Measurements of the azimuthal anisotropy of prompt and nonprompt charmonia in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics. May 25, 2023.

Observation of four top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physics Letters B.* May 22, 2023.

Search for inelastic dark matter in events with two displaced muons and missing transverse momentum in proton-proton collisions at \sqrt{s} = 13 TeV. *Physical Review Letters*. May 19, 2023.

Search for resonances in events with photon and jet final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. May 14, 2023.

Measurements of inclusive and differential cross sections for the Higgs boson production and decay to four-leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. May 12, 2023.

Observation of the rare decay of the η meson to four muons. *Physical Review Letters*. May 8, 2023.

Search for top squark pair production in a final state with at least one hadronically decaying tau lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. April 14, 2023.

Observation of the Y (3S) meson and suppression of YY states in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. *Physical Review Letters*. March 29, 2023.

Probing small Bjorken-x nuclear gluonic structure via coherent J/ ψ photoproduction in ultraperipheral PbPb collisions at $\sqrt{s}_{NN}=5.02$ TeV. Physical Review Letters. March 29, 2023.

First measurement of the top quark pair production cross section in proton-proton collisions at $\sqrt{s} = 13.6$ TeV. *Journal of High Energy Physics*. March 19, 2023.

A search for new physics in central exclusive production using the missing mass technique with the CMS detector and the CMS-TOTEM precision proton spectrometer. *European Physical Journal C.* March 8, 2023.

Evidence for four-top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physics Letters B.* March 7, 2023.

A search for decays of the Higgs boson to invisible particles in events with a top-antitop quark pair or a vector boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C. March 2, 2023.

Search for a vector-like quark $T' \rightarrow tH$ via the diphoton decay mode of the Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Feb. 24, 2023.

Measurement of the top quark mass using a profile likelihood approach with the lepton+jets final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C. Feb. 3, 2023.

Search for top squarks in the four-body decay mode with single lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Jan. 19, 2023.

First measurement of the forward rapidity gap distribution in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV. *Physical Review D.* Jan. 18, 2023.

 ${\rm K^0_s}$ and Λ Λ^-) two-particle femtoscopic correlations in PbPb collisions at $\sqrt{\rm s}_{\rm NN}=5.02$ TeV. *Physics Letters B.* Jan. 13, 2023.

Search for new physics in the τ lepton plus missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics. Dec. 23, 2022. Measurement of the electroweak production of W γ in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physical Review D.* Dec. 23, 2022.

Measurement of the $B^0_s \rightarrow \mu + \mu -$ decay properties and search for the $B^0 \rightarrow \mu + \mu -$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physics Letters B.* Dec. 20, 2022.

Search for long-lived particles using out-of-time trackless jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Dec. 13, 2022.

Measurement of the dependence of the hadron production fraction ratio $f_{s/}$ f_{u} and $f_{d/}$ f_{u} on B meson kinematic variables in proton-proton collisions at $\sqrt{s}=13$ TeV. *Physical Review Letters.* Dec. 5, 2022.

Measurements of azimuthal anisotropy of nonprompt D^0 mesons in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. *Physics Letters B.* Dec. 3, 2022.

Search for high-mass exclusive $\gamma\gamma \rightarrow WW$ and $\gamma\gamma \rightarrow ZZ$ production in proton-proton collisions at $\sqrt{s}=13$ TeV. *Journal of High Energy Physics*. Nov. 29, 2022.

Search for boosted Higgs boson decay to a charm quark-antiquark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physical Review Letters*. Nov. 25, 2022.

Search for supersymmetry in final states with a single electron or muon using angular correlations and heavy-object identification in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Nov. 15, 2022.

Measurement of the jet mass distribution and top quark mass in hadronic decays of boosted top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C. Nov. 2, 2022.

Azimuthal correlations in Z+jets events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C. Oct. 28, 2022.

Measurements of jet multiplicity and jet transverse momentum in multijet events in proton-proton collisions at √s = 13 TeV. European Physical Journal C. Oct. 24, 2022.

Search for medium effects using jets from bottom quarks in PbPb collisions at $\sqrt{s}_{NN} = 5.02$ TeV. *Physics Letters B.* Oct. 16, 2022.

Azimuthal anisotropy of dijet events in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics. Oct. 15, 2022.

Proton reconstruction with the CMS-TOTEM Precision Proton Spectrometer. *Journal of Instrumentation*. Oct. 12, 2022.

Search for a heavy composite Majorana neutrino in events with dilepton signatures from proton-proton collisions at $\sqrt{s}=13$ TeV. *Physics Letters B.* Oct. 6, 2022.

Search for new heavy resonances decaying to WW, WZ, ZZ, WH, or ZH boson pairs in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physics Letters B.* Sept. 30, 2022.

Search for pair production of vector-like quarks in leptonic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Sept. 15, 2022.

Search for exotic Higgs boson decays $H \rightarrow AA \rightarrow 4\gamma$ with events containing two merged diphotons in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physical Review Letters*. Sept. 13, 2022.

Search for new physics using effective field theory in 13 TeV pp collision events that contain a top quark pair and a boosted Z or Higgs boson. *Physical Review D*. Aug. 26, 2022.

Measurement of the Higgs boson inclusive and differential fiducial production cross sections in the diphoton decay channel with pp collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Aug. 25, 2022.

Search for pair-produced vector-like leptons in final states with thirdgeneration leptons and at least three b quark jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Physics Letters B.* Aug. 20, 2022.

Measurement of the cross section of top quark-antiquark pair production in association with a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Aug. 12, 2022.

Measurement of the tt^- charge asymmetry in events with highly Lorentz-boosted top quarks in pp collisions at $\sqrt{s} = 13$ TeV. *Physics Letters B.* Aug. 4, 2022.

Searches for additional Higgs bosons and for vector leptoquarks in $\tau\tau$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Aug. 4, 2022.

Search for CP violation in ttH and tH production in multilepton channels in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. Aug. 4, 2022.

Search for the exotic decay of the Higgs boson into two light pseudoscalars with four photons in the final state in proton-proton collisions at $\sqrt{s}=13$ TeV. *Journal of High Energy Physics*. Aug. 2, 2022.

Measurement of inclusive and differential cross sections for single top quark production in association with a W boson in proton-proton collisions at $\sqrt{s}=13$ TeV. *Journal of High Energy Physics*. Aug. 1, 2022.

Search for the Higgs boson decay to a pair of electrons in protonproton collisions at $\sqrt{s} = 13$ TeV. *Physics Letters B.* July 30, 2022.

Measurement of the top quark pole mass using t^- +jet events in the dilepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. July 5, 2022.

Search for direct pair production of supersymmetric partners of τ leptons in the final state with two hadronically decaying τ leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. *Physical Review D.* July 5, 2022.

Search for a charged Higgs boson decaying into a heavy neutral Higgs boson and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics. July 4, 2022.

A portrait of the Higgs boson by the CMS experiment ten years after the discovery. *Nature*. July 4, 2022.

Search for nonresonant Higgs boson pair production in the four leptons plus two b jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics. June 22, 2022.

Search for Higgs boson pairs decaying to WWWW, WWTT, and TTTT in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics. June 21, 2022.

Search for resonant and nonresonant production of pairs of dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV. *Journal of High Energy Physics*. June 21, 2022.

Measurements of the Higgs boson production cross section and couplings in the WW boson pair decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C. June 20, 2022.

Presentations at Professional Conferences

Faculty who have presented at professional conferences July 1, 2022–June 30, 2023

UNL co-presenters designated in red

(identified by those who submitted items for inclusion) Submitted by faculty, chairs/heads or deans

Muhammad Naveed Aman

Computing

Presenter/speaker, with Uzair Javaid, Zhen Li, Dongxu Shao et al. Blockchain-based secure group data collaboration in Cloud with differentially private synthetic data and trusted execution environment. International Conference on Big Data, IEEE. Osaka, Japan. Dec. 17-20, 2022.

Presenter/speaker, with Mirza Athar Baig. Hardware fingerprinting of phasor measurement units for data provenance. Power and Energy Society Innovative Smart Grid Technologies Conference, IEEE. Washington, D.C. Jan. 16-19, 2023.

Ikuho Amano

Modern Languages and Literatures

Presenter/speaker. Whisky from a different shore: Taketsuru Masataka's frontier spirit and Japan's cultivation of global markets. Midwest Conference on Asian Affairs, University of Kansas. Lawrence, KS. Sept. 16-18, 2022.

Presenter/speaker. An impresario of Japanese whisky: Suntory's advertisements as mise en scéne of modern consumers. Association for Japanese Literary Studies Annual Meeting. Pittsburgh, PA. May 12-14, 2023.

John E. Anderson Economics

Presenter/speaker. Render unto Caesar: Religiosity and tax morale. Association for the Study of Religion, Economics, and Culture European Conference. London, UK. Oct. 21-22, 2022.

Presenter/speaker. Confidence in the World Bank and IMF: Alignment of individual beliefs and institutional policies. European Public Choice Society Conference. Hannover, Germany. March 22-25, 2023.

Cory L. Armstrong Journalism and Mass Communications

Presenter/speaker. Are you watching or warning? Effects of weather terminology comprehension on storm preparation. Association for Education in Journalism and Mass Communication Annual Conference. Detroit, MI. Aug. 5-8, 2022.

Presenter/speaker. Twisted up about potential tornados? Examining factors that amplify one's need for information. Broadcast Association Annual Conference. Las Vegas, NV. April 15-18, 2023.

Hamid Bagheri

Computing

Presenter/speaker, with Guolong Zheng, ThanhVu Nguyen, Simón Gutiérrez Brida et al. ATR: Template-based repair for alloy specifications. International Symposium on Software Testing and Analysis, Association for Computing Machinery's Special Interest Group on Software Engineering. Daejeon, South Korea. Virtual. July 18-22, 2022.

Presenter/speaker, with Clay Stevens. Combining solution reuse and bound tightening for efficient analysis of evolving systems. International Symposium on Software Testing and Analysis, Association for Computing Machinery's Special Interest Group on Software Engineering. Daejeon, South Korea. Virtual. July 18-22, 2022.

Presenter/speaker, with Simón Gutiérrez Brida, Germain Regis, Guolong Zheng et al. ICEBAR: Feedback-driven iterative repair of alloy specifications. International Conference on Automated Software Engineering, Institute of Electrical and Electronics Engineers/ Association for Computing Machinery. Oakland Center, MI. Oct. 10-14, 2022.

Presenter/speaker, with Clay Stevens. Parasol: Efficient parallel synthesis of large model spaces. Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, Association for Computing Machinery. Singapore. Nov. 14-18, 2022.

Presenter/speaker, with N. Mansoor, E. Kang, B. Sharif. An empirical study assessing software modeling in alloy. International Conference on Formal Methods in Software Engineering, Institute of Electrical and Electronics Engineers/Association for Computing Machinery. Melbourne, Australia. May 14-18, 2023.

Raul G. Barletta Veterinary Medicine and Biomedical Sciences

Presenter/speaker, with J.R. Stabel, D.K. Zinniel, E. Muthukrishnan, A. Turner, J.P. Bannantine. Development and testing of *Mycobacterium avium subsp. paratuberculosis* DIVA vaccines in ruminants. Conference of Research Workers in Animal Diseases. Chicago, IL. Jan. 22-24, 2023.

Presenter/speaker, with S. Thapa, S. Sreevatsan, J.P. Bannantine. RNA-sequencing characterization of differentially expressed genes in *Mycobacterium paratuberculosis* FUR mutant under iron stress. Conference of Research Workers in Animal Diseases. Chicago, IL. Jan. 22-24, 2023.

Steven M. Barlow Special Education and Communication Disorders/ Center for Brain, Biology and Behavior/ **Biological Systems Engineering**

Presenter/speaker. Somatosensory-modulated suck dynamics, transition to oral feeds, and gene expression in extremely preterm infants. California Association of Neonatologists, UCLA. San Diego, CA. March 3-5, 2023.

Panel discussion moderator, with Emily Zimmerman, Pamela Dodrill. The importance of tracking functional feeding outcomes in the newborn period and throughout childhood. Pediatric Academic Society Conference. San Diego, CA. March 28-30, 2023.

Presenter/speaker. Neonatal feeding club: Data pipeline, time/ frequency domain analytics for NNS and transition to oral feeds in EPIs. Pediatric Academic Society Conference. Washington, D.C. April 28-30, 2023.

Eric Berger law

Presenter/speaker. National crises and the impotent constitution. Loyola Constitutional Law Colloquium, Loyola University Chicago School of Law. Chicago, IL. Nov. 4-5, 2022.

Presenter/speaker. Is this still Scalia's court?: The evolution of conservative legal thought. Cardozo Eighth Amendment Workshop, Cardozo Law School, Yeshiva University. New York, NY. April 21, 2023.

Nathan Bicak Interior Design

Presenter/speaker, with Lindsey Bahe. When (not) in Rome: Global collaborative curriculum development. Interior Design Educators Council. Vancouver, BC, Canada. March 8-11, 2023.

Christopher Bilder Statistics

Presenter/speaker, with Joshua Tebbs, Christopher McMahan. A mixed effects Bayesian regression model for multivariate group testing data. Eastern North American Region Spring Meeting, International Biometric Society, Nashville, TN. March 19-22, 2023.

Presenter/speaker, with Minh Nguyen, Joshua Tebbs, Christopher McMahan. Expected number of stages for hierarchical group testing algorithms. Eastern North American Region Spring Meeting. International Biometric Society. Nashville, TN. March 19-22, 2023.

Presenter/speaker, with Minh Nguyen, Joshua Tebbs, Christopher McMahan. A new metric to evaluate algorithm complexity for group testing. Western North American Region Annual Meeting, International Biometric Society and Institute of Mathematical Statistics. Anchorage, AK. June 18-21, 2023.

Kelli S. Boling

Advertising and Public Relations

Presenter/speaker. "I'm not a journalist. I don't think that I necessarily fall under the same rules that they do.": Journalistic ethics in true crime podcast production. Investigating True Crime and the Media Conference. Newcastle University, UK. June 23, 2022.

Presenter/speaker, with Allison Schlosser, Roma Subramanian, Ciera E. Kirkpatrick, Jessica Hample, Valerie Jones. #NarcanSavesLives: Digital assembly and the social construction of a public health intervention. Health Humanities Consortium. Cleveland, OH. March 16-19, 2023.

Presenter/speaker, with Allison Schlosser, Roma Subramanian, Ciera E. Kirkpatrick, Jessica Hample, Valerie Jones. #NarcanSavesLives: Strength and solidarity in youth digital activism in an overdose crisis. Harm Reduction International Conference, Melbourne, Austraila. April 16-19, 2023.

Mia Bourek

Bureau of Sociological Research

Presenter/speaker. The effects of sequential incentives on response rate and sample composition. American Association for Public Opinion Research Annual Conference, Philadelphia, PA. May 10-12, 2023.

Anita Breckbill University Libraries

Presenter/speaker. A bird in Iowa, a bird in Bohemia: Dvořák and birdsong, International Association of Music Libraries, Archives and Documentation Centres Congress. Prague, Czech Republic. July 24-29, 2022.

Presenter/speaker. Communication in a library building project: In the room where it happens. Mountain-Plains Music Library Association Annual Meeting. Norman, OK. May 19-20, 2023.

Gabriel Bruguier

University Libraries

Presenter/speaker, with Juan Chindoy, Melinda Yeomans. Lakota language revitalization and the meaning of life. Society for the Advancement of American Philosophy Annual Meeting. Denver, CO. March 9-11, 2023.

Presenter/speaker, with Susana Geliga, Melinda Yeomans. Lakota language revitalization and the meaning of life. Pacific Division Meeting, American Philosophical Association. San Francisco, CA. April 5-8, 2023.

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Stephen M. Buhler

Presenter/speaker. Liminalities in Kit Surrey's and Bill Alexander's scenic collaborations for *Troilus and Cressida*: Washington, D.C., 1992. Virtual Conference on Representing Pasts/Envisioning Futures, Architecture Media Politics Society. Online. Dec. 1, 2022.

Anthony Bushard Glenn Korff School of Music

Presenter/speaker. "What to do over the week-end": Towards an understanding of distraction, advertising, and newspaper coverage of the Kansas City jazz scene in the 1930s. National Meeting of the American Musicological Society. Chicago, IL. Online. Nov. 11-21, 2021.

Heng Chen Supply Chain Management and Analytics

Presenter/speaker. Outcome-based pricing for precision agriculture services. Production and Operations Management Society Annual Meeting. Orlando, FL. May 21-26, 2023.

Presenter/speaker. Outcome-based pricing for precision agriculture services. INFORMS Manufacturing and Service Operations Management Society Conference. Montreal, Canada. June 24-26, 2023.

Juan Cui Computing

Presenter/speaker, with Zeynep Hakguder, Weiwen Chai. Smart diet management through food image and cooking recipe analysis. International Conference on Bioinformatics and Biomedicine, Institute of Electrical and Electronics Engineers. Las Vegas, NV. Dec. 6-8, 2022.

Presenter/speaker, with Roland Madadjim, Haluk Dogan.
Computational learning of small RNA regulation in pancreatic
cancer progression. International Conference on Bioinformatics and
Biomedicine, Institute of Electrical and Electronics Engineers. Las
Vegas, NV. Dec. 6-8, 2022.

Andrea S. Cupp Animal Science

Presenter/speaker, with M.A. Abedal-Majed, A.F. Summers, B.E. Rudloff et al. Randel Lecture: Androgen excess domestic livestock models – What can they tell us about the mechanisms underlying anovulation? Southern Section Annual Meeting, American Society of Animal Science. Raleigh, NC. Jan. 21-24, 2023.

Aziza Cyamani Interior Design/Product Design

Presenter/speaker, with Charles Chioma Nwaizu. Adapting practice-based learning in transdisciplinary teams to enhance student success skills. Transformative Teaching: Focus on Pedagogy 2022, Architecture Media Politics Society. Virtual. Nov. 15, 2022.

Rochelle L. Dalla

English

Child, Youth and Family Studies

Presenter/speaker. Human trafficking roundtable. Journal of Human Trafficking: Overview and Special Issues, Gallaudet University. Virtual. June 1, 2022.

Presenter/speaker, with Kaitlin Roselius, Victoria J. Johnson, Jessie Peter et al. "It just happens in our society": A life-course perspective of sex trafficking among the Bedia caste of India. National Council on Family Relations Annual Meetings. Fort Worth, TX. Nov. 1, 2022.

Presenter/speaker, with Wayne Babchuk, Dawn O. Braithwaite, Katie M. Edwards et al. Best practices for undertaking and publishing qualitative scholarship. World Conference on Qualitative Research. Virtual. Jan. 26-28, 2022.

Presenter/speaker, with Katie Edwards, Janella Kang. Sex trafficking among high schoolers: A multi-informant focus group study. Society for the Scientific Study of Social Issues Annual Meetings. Denver, CO. June 1, 2023.

Erica DeFrain University Libraries

Presenter/speaker, with Leslie Sult. Paving the way or still charting a path: How are we measuring the learning effectiveness of library research guides? Education and Behavioral Sciences Section Annual Research Forum, Association of College and Research Libraries. Virtual. May 3, 2023.

Jessica R. Deters Mechanical & Materials Engineering

Presenter/speaker, with Maya Menon, Maggie Webb. Exploring mechanical engineering student perspectives of academic integrity during COVID-19. Australasian Association for Engineering Education Conference. Sydney, Australia. Dec. 4-7, 2022.

Presenter/speaker, with Maya Menon, Margaret Webb, Malini Josiam. Universities as living laboratories: A comparative document analysis on university priorities, values, and strategies towards SDGs. International Conference on Engineering Education for Sustainable Development. Ft. Collins, CO. June 18-21, 2023.

Presenter/speaker, with Emily Fitzpatrick. Work in progress: A pilot study on faculty perceptions of the impact of COVID-19 on undergraduate engineering student readiness. American Society for Engineering Education Annual Conference and Exposition. Baltimore, MD. June 25-29, 2023.

Presenter/speaker, with Nosakhare I. Idiaghe, Yashin Brijmohan, Ibukunoluwa E. Salami. Exploring mechanical engineering students' perceptions of preparedness for work. American Society of Engineering Education Annual Conference and Exposition. Baltimore, MD. June 25-29, 2023.

Presenter/speaker, with Nosakhare I. Idiaghe. Investigating the impact of a mechanical engineering undergraduate research experience on student learning. American Society of Engineering Education Annual Conference and Exposition. Baltimore, MD. June 25-29, 2023.

Presenter/speaker, with David B. Knight, Kirsten A. Davis, Nicole P. Sanderlin et al. Reimagining international research for students in a virtual world. American Society for Engineering Education Annual Conference and Exposition. Baltimore, MD. June 25-29, 2023.

Dipti A. Dev Child, Youth and Family Studies

Presenter/speaker, with Megan Richmond, Carly Hillburn. Culturally responsive care in management of pediatric feeding and swallowing disorders. American Speech-Language-Hearing Association National Conference. Virtual. March 22-April 3, 2023.

Presenter/speaker, with Carly Hillburn, Stephanie Salazar. The ecological approach to family style: An online program to enhance childcare providers' responsive feeding practices and mealtime environments. Child Nutrition Conference, National Child and Adult Care Food Program Sponsors Association. San Diego, CA. April 10-14, 2023.

Presenter/speaker, with Carly Hillburn. A call to action for policy makers: Feeding young children during COVID-19. Child Nutrition Conference, National Child and Adult Care Food Program Sponsors Association. San Diego, CA. April 10-14, 2023.

Angela M. Dietsch

Special Education and Communication Disorders/ Center for Brain, Biology and Behavior

Presenter/speaker. Clinical competency and cultural responsivity in gender affirming communication services. Nebraska Speech-Language-Hearing Association Fall Convention. Lincoln, NE. Oct. 14-15, 2022.

Presenter/speaker, with Debra Hope, Richard Mocarski, Nathan Woodruff. Centering community voices in the development of gender affirming communication services. Great Plains IDeA-CTR Annual Meeting, NIH. Omaha, NE. Oct. 16-22, 2022.

Presenter/speaker, with Rachel Mulheren, Ross Westemeyer. Can taste help my patients swallow? A scoping and systematic review. American Speech-Language-Hearing Association Annual Convention. New Orleans, LA. Nov. 16-20, 2022.

Presenter/speaker, with Cassidy Krawczak-Kummrow, Miechelle McKelvey, Debra Hope et al. Community/provider perspectives for enhancing communication-related gender affirmation services. American Speech-Language-Hearing Association Annual Convention. New Orleans, LA. Nov. 16-20, 2022.

Presenter/speaker, with Rahul Krishnamurthy. Benchmarks and reliability testing of some commercially-available expiratory muscle strength training (EMST) devices. Annual Meeting of the Dysphagia Research Society. San Diego, CA. March 9-12, 2023.

Shudipto Dishari Chemical and Biomolecular Engineering

Presenter/speaker. Understanding and manipulating the distribution of ion conduction environment across ionomeric thin materials. Advanced Light Source User Meeting. Berkeley, CA. Aug. 17, 2022.

Thomas Dotzel Marketing

Presenter/speaker, with Venkatesh Shankar. The differential effects of good innovations, service innovations, and software innovations on firm value and firm risk for technology firms. Institute for the Study of Business Markets Academic Conference: Advances in B-to-B Markets. Chicago, IL. Aug. 10-11, 2022.

Presenter/speaker, with Revanth Raghupatruni, Sunil Singh. DEI events and firm value. Marketing Science: Diversity, Equity, and Inclusion Conference. Dallas, TX. March 24-25, 2023.

Robert Dyer Computing

Presenter/speaker. An exploratory study on the predominant programming paradigms in Python code. Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, Association for Computing Machinery. Singapore. Nov. 14-18, 2022.

Ronald K. Faller

Midwest Roadside Safety Facility/ Civil and Environmental Engineering

Presenter/speaker. AASHTO MASH, roadside safety features, breakaway devices, and recent research. Missouri Highway Safety and Traffic Conference, Show-Me Zero: Driving Missouri Toward Safer Roads. Columbia, MO. Sept. 27-29, 2022.

Presenter/speaker, with Akrum Abu-Odeh. Heavy vehicle impacts: An overview from a safety and an infrastructure perspective. International Road Federation Global R2T Conference and Exhibition. Washington, D.C. Oct. 31-Nov. 3, 2022.

Kylin Flothe Textiles, Merchandising and Fashion Design

Presenter/speaker. Inspired by history: Apparel design students' use of extant artifacts to inspire contemporary design. Costume Society of America National Symposium. Salt Lake City, UT. May 24-27, 2023.

Dana Fritz Art, Art History and Design

Presenter/speaker. Field guide to a hybrid landscape. Homecoming, Society for Photographic Education. Denver, CO. March 16-18, 2023.

Presenter/speaker. Field guide to a hybrid landscape: Deconstructing Nebraska's hand-planted forest. Nuevas Topografías Fotográficas: De Vueltas con el Paisaje, Centro de Iniciativas Culturales de la Universidad de Sevilla. Seville, Spain. May 24-25, 2023.

Sue A. Gardner University Libraries

Invited presenter. Comparison of library publishing workflows by open access. Challenges of Contemporary Publishing Conference, Lublin Technical University. Lublin, Poland. May 25-26, 2023.

Nirnimesh Ghose Computing

Presenter/speaker, with Haipeng Li, Kaustubh Gupta, Chenggang Wang, Boyang Wang. RadioNet: Robust deep-learning based radio fingerprinting. Conference on Communications and Network Security, Institute of Electrical and Electronics Engineers. Austin, TX. Oct. 3-5, 2022

Presenter/speaker, with Truc T. Duong, Anna Wisniewska.
Decentralized rogue node detection in fair bio-inspired dynamic spectrum access networks. International Conference on Computational Intelligence and Communication Networks, Institute of Electrical and Electronics Engineers. Al-Khobar, Saudi Arabia. Dec. 4-6, 2022.

Presenter/speaker, with Kaustubh Gupta, Boyang Wang. RADTEC: Re-authentication of IoT devices with machine learning. Consumer Communications and Networking Conference, Institute of Electrical and Electronics Engineers. Las Vegas, NV. Jan. 8-12, 2023.

Melissa Gomis University Libraries

Presenter/speaker, with Alison Lehner-Quam, Amy James, Christina Jones et al. Future proofing the framework with social justice, metacognition, and digital literacy. Association of College and Research Libraries Conference. Pittsburgh, PA. March 15-18, 2023.

Priscilla C. Grew Earth and Atmospheric Sciences (emerita)/ University of Nebraska State Museum

Keynote speaker. GSA President's Medal Lecture: Water and coal development impacts on the Navajo Nation assessed by the interdisciplinary Lake Powell research project 1971-1977. GSA Connects 2022, Geological Society of America. Denver, CO. Oct. 9-12, 2022.

Mark A. Griep Chemistry

Keynote speaker. Alien biochemistry and extraterrestrial minerals in the movies. Nebraska Science Olympiad. Lincoln, NE. April 22-23, 2022.

Keynote speaker. Put some movie Wow! in your chemistry classroom. European Chemistry Society Congress. Lisbon, Portugal. Aug. 28-Sept. 1, 2022.

Frauke Hachtmann

Advertising and Public Relations/ Sports Media and Communication

Presenter/speaker, with Thomas Horky. Internationalization of a professional American sports league: Examining the NFL's marketing strategy and KPIs in Germany. International Association for Communication and Sport Summit. Barcelona, Spain. March 9-11, 2023.

Presenter/speaker. When the world stood still: Crisis response advertising during the COVID-19 pandemic. American Academy of Advertising Conference. Denver, CO. March 24-26, 2023.

Becky Haddad

Agricultural Leadership, Education and Communication

Presenter/speaker, with Lavyne L. Rada, Amy R. Smith. Measuring mobility: A quantitative description of teacher mobility in Minnesota. American Association for Agricultural Education National Conference. Raleigh, NC. May 15-18, 2023.

Presenter/speaker, with Jonathan J. Velez, Haden Botkin, Josh Stewart et al. That's not in my position description: A discourse analysis of SBAE migratory context. American Association for Agricultural Education National Conference. Raleigh, NC. May 15-18, 2023.

Presenter/speaker, with Jonathan J. Velez, Haden Botkin, Josh Stewart et al. One without the other: Contextualizing mobility through discourse analysis. American Association for Agricultural Education National Conference. Raleigh, NC. May 15-18, 2023.

Presenter/speaker, with Rebecca Mott. A call to better qual: A philosophical and methodological examination to advance phenomenological research. American Association for Agricultural Education National Conference. Raleigh, NC. May 15-18, 2023.

Ling Harris Accountancy

Presenter/speaker. Investors' judgments of managers' complex accounting estimation choices: The role of descriptor identicalness and investor knowledge. Hawaii Accounting Research Conference, University of Hawaii. Honolulu, HI. Jan. 1-5, 2023.

Lindsay J. Hastings

Agricultural Leadership, Education and Communication

Presenter/speaker, with Hannah Sunderman. Building a training and development intervention for peer leaders: Consideration vs. structure. Association of Leadership Educators Annual Conference. Kansas City, MO. June 26-29, 2022.

Presenter/speaker, with David Rosch. Avoiding the seven deadly sins of leadership education research and evaluation. Association of Leadership Educators Annual Conference. Kansas City, MO. June 26-29, 2022.

Presenter/speaker, with Hannah Sunderman. Forced innovation: Mentoring for leadership development in virtual environments. Association of Leadership Educators Annual Conference. Kansas City, MO. June 26-29, 2022.

Presenter/speaker, with Hannah Sunderman. Theory-driven approaches to targeting socially responsible leadership in emerging adults: Commitment. Association of Leadership Educators Annual Conference. Kansas City, MO. June 26-29, 2022.

Presenter/speaker, with Mary Emery, Dave Peters, Jordan Grummert-Rasmussen. Imagining future possibilities for community leadership development. Community Development Society Conference. Virtual. July 17-20, 2022.

Presenter/speaker, with Julie Owen, Susan Komives, V. Chunoo et al. A research agenda for leadership learning and development through higher education. International Leadership Association Global Annual Conference. Washington, D.C. Oct. 13-16, 2022.

Presenter/speaker, with Hannah Sunderman. Developing a psychometric measure of the Leadership Identity Development (LID) model: Item generation. International Leadership Association Global Annual Conference. Washington, D.C. Oct. 13-16, 2022.

Presenter/speaker. Managing diverse talents and perspectives both in professional and personal contexts. Women in Ag Conference, Nebraska Extension. Kearney, NE. Feb. 23-24, 2023.

Presenter/speaker, with Justine Yeo, Shawn Kaskie. Momentum shifts in community change for rural prosperity. Connecting Entrepreneurial Communities Conference, Nebraska Extension. Valentine, NE. June 8-9, 2023.

Presenter/speaker. Transfer of leadership in rural communities. Connecting Entrepreneurial Communities Conference, Nebraska Extension. Valentine, NE. June 8-9, 2023.

Ellen Hebden

Glenn Korff School of Music

Presenter/speaker. Innovating through beauty: Mobilities and the expansion of Tufo in Mozambique. International Council of Traditional Music World Conference. Lisbon, Portugal. July 21-27, 2022.

Presenter/speaker. Women's Tufo dancing, discourses of talent, and the gendered politics of mobility in Mozambique. Music, Migration and Mobility: An Interdisciplinary International Conference, Royal College of Music. London, UK. Online. Sept. 12-14, 2022.

Presenter/speaker. Rejuvenation through remembering: Sonic care at night clubs for the aging in northern Mozambique. American Anthropological Association Annual Meeting. Seattle, WA. Nov. 9-13, 2022.

Presenter/speaker. Women's Tufo dancing, discourses of talent, and the gendered politics of mobility in Mozambique. British Forum for Ethnomusicology Annual Conference. Edinburgh, Scotland. April 13-16, 2023.

Mary Beth Hilbers

Music Education

Presenter/speaker. The effect of group singing and socioeconomic status on fifth-grade students' affective well-being. Music Education Convention, Big 10 Academic Alliance. Chicago, IL. Oct. 19-21, 2022.

Michael Hoff

Art, Art History and Design

Presenter/speaker, with Dennis Murphy. The bath buildings of Antiochia ad Cragum. A story of Roman bathing, coin hoards, mosaics and dead bodies in Rough Cilicia. Bathing Culture in Budapest: Frontinus Society on the History of Water Management and Hydraulic Engineering International Conference. Budapest, Hungary. Sept. 8-15, 2022.

Presenter/speaker. Latrines and humor: A mosaic with altered mythological themes from Antiochia ad Cragum in Rough Cilicia, Turkey. Colloque de l'Association Internationale pour l'Étude de la Mosaique Antique (AIEMA), La Mosaique en Context. Lyon, France. Oct. 17-21, 2022.

Presenter/speaker. The coastal road of western Rough Cilicia during the Roman Empire. International Cilician Archaeology Symposium, Research Center for Cilician Archaeology, Mersin University. Mersin, Turkey. Online. Oct. 27-28, 2022.

Presenter/speaker. Early travelers to Antiochia. Antiochia ad Cragum in Rough Cilicia: Recent Work/Further Insights, Suna & İnan Kıraç Research Institute for Mediterranean Civilizations/Koç University. Istanbul, Turkey. Online. April 8, 2023.

Danielle C. Jefferis Law

Presenter/speaker. Carceral competencies. ComplianceNet 2022, University of Amsterdam, Amsterdam Law School. Amsterdam, Netherlands. July 7-8, 2022.

Presenter/speaker. Carceral competencies. Courts as an Arena of Social Change: Conference of the Research Group on Institutions for Conflict Resolution, Leiden University, Leiden Law. Leiden, Netherlands. July 8-9, 2022.

Presenter/speaker. Carceral deference. Academy for Justice Workshop, American Bar Association, Association of American Law Schools. Virtual. Dec. 2-3, 2022.

Panel discussion participant. Carceral deference. Berkeley Center on Comparative Equality and Anti-Discrimination Law Annual Conference, Utrecht University. Utrecht, Netherlands. June 28-30, 2023

Jennifer Johnson Jorgensen

Textiles, Merchandising and Fashion Design

Presenter/speaker, with Melisa Spilinek. Teaching diversity and equity in merchandising the omnichannel product assortment and retail workspace. International Textile and Apparel Association Annual Conference. Denver, CO. Oct. 26-29, 2022.

Presenter/speaker, with Melisa Spilinek. Motivations to collect: How consumers are socialized to build product collections. International Textile and Apparel Association Annual Conference. Denver, CO. Oct. 26-29, 2022.

Presenter/speaker, with Melisa Spilinek. Consumption or crafting: A Disney fandom pilot netnography. International Textile and Apparel Association Annual Conference. Denyer. CO. Oct. 26-29, 2022.

Presenter/speaker, with Sandra Sydnor, Virginia Zuiker, Cynthia Jasper. Wealth and well-being: Perceptions from family-owned and diverse businesses during the COVID-19 pandemic. United States Association for Small Business and Entrepreneurship Annual Conference. Tallahassee, FL. Jan. 18-22, 2023.

Valerie K. Jones Advertising and Public Relations

Presenter/speaker. Voice technology: The role of intelligent agents in improving aging adults' quality of life. Mobile Me&You Conference, University of Illinois Urbana-Champaign/Northwestern University/University of Nebraska-Lincoln. Lincoln, NE. Oct. 21-22, 2022.

Presenter/speaker. The hows and whys of studying public sentiment in social media. Midwest Public Health Innovation and Research Expo, University of Nebraska Medical Center, Great Plains IDeA-CTR. Omaha, NE. Oct. 28, 2022.

Presenter/speaker, with Jessica Fargen Walsh. The only woman I can tell to shut up: Exploring continued personal voice assistant use among older, socially isolated adults during the pandemic. Association for Education in Journalism and Mass Communication Conference. Detroit, MI. Aug. 3-6, 2022.

Oleh Khalimonchuk Biochemistry

Presenter/speaker. Redox-dependent modulation of mitochondrial sculpting. Gordon Research Conference on Thiol-based Redox Regulation and Signaling, Gordon Research Conferences and NIH. Castelldefels (Barcelona), Spain. July 10-15, 2022.

Presenter/speaker. Mechanisms linking mitochondrial membrane architecture and heme metabolism. International Symposium: Unraveling Mysteries of Heme Metabolism, NIH. Cape Town, South Africa. April 17-21, 2023.

Dane Kiambi

Advertising and Public Relations

Presenter/speaker. Public relations in Africa: The emerging role of social media in Kenya. International Public Relations Research Conference. Orlando, FL. March 2-4, 2023.

Taeveon Kim

Educational Administration

Presenter/speaker, with A. Ishimaru. "What's your story?" Asian diasporic researcher journeys toward equity scholarship in leadership. University Council for Educational Administration Convention. Seattle, WA. Nov. 17-20, 2022.

Presenter/speaker, with S.B. Jang. Fabricating future education to survive in the unpredictable market: National curriculum revision in South Korea. Comparative International Education Society Annual Meeting. Washington, D.C. Feb. 18-22, 2023.

Presenter/speaker, with S.J. Park, M. Yang. Complicating "learning gap" discourse: Korean teachers' response during COVID-19. Comparative International Education Society Annual Meeting. Washington, D.C. Feb. 18-22, 2023.

Presenter/speaker, with S.B. Jang. Unfreezing citizens and reconstructing curriculum-making: Deliberative national curriculum revision experiment in South Korea. American Educational Research Association Annual Meeting. Chicago, IL. April 13-16, 2023.

Presenter/speaker, with S.B. Jang, J.K. Jung, M.H. Son, S.Y. Lee. Negotiating Asian-American identities: Collaborative self-study of Korean immigrant scholars' reading group on AsianCrit. American Educational Research Association Annual Meeting. Chicago, IL. April 13-16, 2023.

Presenter/speaker, with J.K. Jung, S.B. Jang, S.Y. Lee, M.H. Son. Navigating Asianization: Korean transnationals' racialized experiences in the U.S. Korean Association for Multicultural Education Conference. Seoul, South Korea. May 18-20, 2023.

Ciera E. Kirkpatrick

Advertising and Public Relations

Presenter/speaker, with Kelli Boling, Patrick Habecker, Valerie Jones et al. #NarcanSavesLives: Digital assembly and social construction of a public health intervention. Health Humanities Consortium, Case Western Reserve University School of Medicine and Cleveland Clinic Lerner College of Medicine. Cleveland, OH. March 16-19, 2023.

Presenter/speaker, with Kelli Boling, Patrick Habecker, Valerie Jones et al. #NarcanSavesLives: Strength and solidarity in youth digital activism in an overdose crisis. Harm Reduction International Conference. Melbourne, Australia. April 16-19, 2023.

Presenter/speaker, with Sungkyoung Lee. The effects of motherhood comparison: Social comparison orientation and self-esteem as moderators on new mothers' perceived parental competence and life satisfaction. International Communication Association Conference. Toronto, Canada. May 25-29, 2023.

Presenter/speaker, with Sisi Hu, Namyeon Lee, Yoorim Hong, Sungkyoung Lee, Amanda Hinnant. TikTok as a clinical trial recruitment tool? Effects of message source and framing on participation behavior. International Communication Association Conference. Toronto, Canada. May 25-29, 2023.

Alok Kumar Marketing

Presenter/speaker, with Ravi Agarwal. Regulatory focus in key accounts: The buyer's perspective. Institute for the Study of Business Markets Academic Conference: Advances in B-to-B Markets. Chicago, IL. Aug. 10-11, 2022.

Presenter/speaker, with Ravi Agarwal, Abe Masato, Joseph P. Cannon. Buyer's involvement in developing supplier capabilities: The role of specialized investments. Summer Educators' Conference, American Marketing Association. Chicago, IL. Aug. 12-14, 2022.

Presenter/speaker. Engaging external stakeholders - Offshore outsourcing. Winter Educators' Conference, American Marketing Association. Nashville, TN. Feb. 10-12, 2023.

Yingchao Lan

Supply Chain Management and Analytics

Presenter/speaker. Tackling deepfakes through the torts of misappropriation and right of publicity. Media Law and Policy Scholars Conference. Online. Jan. 12-13, 2023.

Presenter/speaker. 2023 telecom update (privacy). Broadcast Education Association Conference. Las Vegas, NV. April 15-18, 2023.

Panel discussion participant. Evolving electronic media law and technology. Broadcast Education Association Conference. Las Vegas, NV. April 15-18, 2023.

Presenter/speaker. Survival of the fittest? Factors explaining the continued success of local TV news. World Media Economics and Management Conference. Seoul, South Korea. May 15-18, 2023.

Presenter/speaker. Primary care, preventive care, and healthcare delivery efficiency. Production and Operations Management Society Annual Meeting. Orlando, FL. May 21-26, 2023.

Lisa Lenz Special Education and Communication Disorders

Presenter/speaker, with Emma Arthur, Suzanne Kemp, Jay Jeffrie, Kristy Weissling. Interprofessional practice and education: Measuring SLP and SPED student attitudes. Nebraska Speech-Language-Hearing Association Annual Convention. Lincoln, NE. Oct. 14-15, 2022.

Presenter/speaker, with Adrienne Pitt. Supporting speech-language pathology master's degree students with a mentorship program. American Speech-Language-Hearing Association Annual Convention. New Orleans, LA. Nov. 17-19, 2022.

Presenter/speaker, with Suzanne Kemp, Kristy Weissling. A collaborative practicum design: Interprofessional clinical teams in speech-language pathology and special education. American-Speech-Language-Hearing Association Annual Convention. New Orleans, LA. Nov. 17-19, 2022.

Yijia Lin Finance

Presenter/speaker. Defense in competition: Multimarket and structural effects of firm-specific competition on risk transfer. Peking University College of Economics Department of Risk Management and Insurance 30th Anniversary Celebration Research Conference. Beijing, China. May 25, 2023.

Kate Lyons Biological Sciences

Presenter/speaker. Changes in small mammal relative abundance distributions and energy flow following the terminal Pleistocene extinction. Gordon Conference on Unifying Ecology Across Scale, Southern New Hampshire University. Manchester, NH. July 31-Aug. 5, 2022.

Presenter/speaker. Changes in small mammal abundance distributions following the loss of large mammal ecosystem engineers at the terminal Pleistocene. Geological Society of America Annual Meeting. Denver, CO. Oct. 15, 2022.

Presenter/speaker. Schrödinger's mammoth: Ecological assembly in the age of humans. Symposium on Synthesizing Biological Scaling: Towards a Universal Theory, Santa Fe Institute. Santa Fe, NM. Nov. 15, 2022.

Andre F. Maciel Marketing

Presenter/speaker, with Abigail Nappier Cherup. The places where we exist: The power of recognition in servicescapes. Consumer Culture Theory Conference. Corvallis, OR. July 7-9, 2022.

Presenter/speaker. How can firms collectively turn place into competitive advantage? The case of terroir brands. Consumer Culture Theory Conference. Lund, Sweden. June 27-30, 2023.

Arindam Malakar Nebraska Water Center/Natural Resources

Presenter/speaker, with Y. Ukwishaka, M. Kaiser, D.D. Snow, D.N. Miller, C. Ray. Redox driven transformation of nitrogen species across the vadose zone: Insights from column experiments. American Chemical Society National Symposium and Expo. Indianapolis, IN. March 26-30, 2023.

Julia McQuillan Sociology

Panel discussion participant, with Trish Wonch Hill. Information capital, science salience, and accuracy of COVID-19 knowledge among youth in the U.S. Midwest. American Sociological Association Annual Meeting: Bureaucracies of Displacement. Los Angeles, CA. Aug. 5-9, 2022.

Panel discussion participant, with Michelle Phillips, Betsy Barent, Meghan Leadabrand, James Blake, Trish Wonch Hill. Partnering with a school district for sociology in 6th-12th STEM education. Midwest Sociological Society Annual Meeting. Minneapolis, MN. March 23-26, 2023.

Presenter/speaker, with Trish Wonch Hill. Bringing identity and social capital theories and research to 6-12th science and math teachers: Syllabi, course plans, and positive potential. Midwest Sociological Society Annual Meeting. Minneapolis, MN. March 23-26, 2023.

Presenter/speaker, with Trish Wonch Hill, Meghan Leadabrand, Amy N. Spiegel, Ash E. Smith, Sam Bendix et al. Worlds of Connections: Spreading knowledge and excitement about network science. NIH SciEd Conference, NIH-NIGMS. Washington, D.C. May 30-June 2, 2023.

Presenter/speaker, with Trish Wonch Hill. Implicit network science knowledge and awareness of social connections for health are relevant for pandemic precautions. Central IDeA States Regional Meeting, NIH-NIGMS. Kansas City, MO. June 7-9, 2023.

Alakananda Mitra Nebraska Water Center

Presenter/speaker. iLog 2.0: A novel method for food nutritional value automatic quantification in smart healthcare. International Symposium on Smart Electronic Systems, Institute of Electrical and Electronics Engineers. Warangal, India. Dec. 18-22, 2022.

Dan Novy Johnny Carson Center for Emerging Media Arts

Presenter/speaker. Artificial flavors to intelligence: Experience design across the senses. Rethink Eating 2022: What's Next for Chemical Senses Research? Aarhus Institute of Advanced Studies. Aarhus, Denmark. Nov. 15-16, 2022.

David L. Olson Supply Chain Management and Analytics

Presenter/speaker. Management science modeling of risk in 21st century supply chains - The role of Al/machine learning. Hainan Symposium on Green Digital Intelligence Development, Economics and Management School, Chinese Academy of Sciences. Haikou, China. Sept. 30, 2022.

Presenter/speaker, with Bongsug Chae. Business analytics for supply chain: A dynamic-capabilities framework. Information Technology and Quantitative Management Conference, *International Journal of Information Technology and Decision Making*. Beijing, China. Dec. 11, 2022.

Keynote speaker, with Özgür Araz. Supply chain risk management. Alliance of International Science Organizations – B and R International Innovation and Development Institute Network. Beijing, China. Online. March 23, 2023.

Keynote speaker. Management science modeling of risk in the platform economy supply chain. Research on Market Mechanism, Operation Financing, and Risk Decision-making of the Platform Economy, Sino-Danish College, University of Chinese Academy of Sciences. Beijing, China. April 15-16, 2023.

Keynote speaker. Knowledge management in the big data era. Data Mining and Knowledge Management Discovery, Joint Conference on Information and Communication Engineering, Chongking University. Chongking, China. June 24-26, 2023.

Kristen Olson Sociology

Presenter/speaker, with Amanda Ganshert. Remember, you can complete this survey online! Adding a web survey URL to the mail questionnaire cover in a mixed-mode general population survey. Midwest Association for Public Opinion Research Annual Meeting. Chicago, IL. Nov. 17-19, 2022.

Presenter/speaker, with John Stevenson, Nadia Assad, Amanda Ganshert et al. Examining variation in survey costs across survey design features. American Association for Public Opinion Research Annual Meeting. Philadelphia, PA. May 8-13, 2023.

Kendra L. Ordia Interior Design

Presenter/speaker, with Ashley Stoner. Health and equity through biophilic design. EdSpaces Conference. Portland, OR. Nov. 2-4, 2022.

Presenter/speaker. The future of nature integration in the urban interior: Education, growth, and food resiliency. Interior Design Educators Council Annual Conference. Vancouver, BC, Canada. March 8-11, 2023.

Presenter/speaker, with Nathan Bicak. BioMateriality and the interior built environment. Interior Design Educators Council Annual Conference. Vancouver, BC, Canada. March 8-11, 2023.

Ciara L. Ousley Special Education and Communication Disorders

Presenter/speaker, with Tracy J. Raulston, Christina Gilhuber. Effects of a parent-implemented intervention using strength-based video feedback coaching during playtime. Applied Behavior Analysis International Annual Conference. Denver, CO. May 26-29, 2023.

Morgan E. Palmer

Classics and Religious Studies/ Women's and Gender Studies

Presenter/speaker. Superlative adjectives on inscriptions commemorating the Vestal Virgins: Convention and innovation. International Congress of Greek and Latin Epigraphy. Bordeaux, France. Aug. 9-Sept. 2, 2022.

Presenter/speaker. Transmediality and the goddess Vesta in Ovid's *Fasti*. Transmediality and the Classics, King's College. London, United Kingdom. June 29-30, 2023.

John Parsi Law

Presenter/speaker. Sex equality and discrimination in sex testing of youth sports. American Society of Law, Medicine and Ethics - Health Law Professors Conference. Baltimore, MD. June 7-9, 2023.

Nora M. Peterson Modern Languages and Literatures

Presenter/speaker. Reading the body at court: Diplomacy, performance, and the body. International Conference of the Society for Interdisciplinary French Seventeenth-Century Studies. Reykjavik, Iceland. Oct. 13-15, 2022.

Presenter/speaker. Technologies of the self in early modern women's writing: The case of Marguerite de Valois. Sixteenth Century Society Conference. Minneapolis, MN. Oct. 27-30, 2022.

Presenter/speaker. Intersections of corps and corpus in Marguerite de Navarre's Heptaméron. Equinoxes Conference, Brown University. Providence, RI. March 10-11, 2023.

Brian A. Petrotta Sports Media and Communication

Keynote speaker, with Dr. Hibai Lopez-Gonzalez. Beyond betting: Media usage, risk behaviors and problematic sports betting in the U.S. International Association of Communication and Sport Annual Summit. Barcelona, Spain. March 9-11, 2023.

Kenneth M. Price

English/Center for Digital Research in the Humanities

Presenter/speaker, with Kevin McMullen, Stefan Schoeberlein. Whitman's trunk: Rethinking how Whitman composed. American Literature Association Convention. Boston, MA. May 25-28, 2023.

Presenter/speaker. Plagiarism, creative reuse, and the color line: Charles Chesnutt's "How Dasdy Came Through" and Harry Stillwell Edwards' "How Sal Came Through." Society for Textual Scholarship. New York, NY. June 1-3, 2023.

Presenter/speaker. Serial publications of the Walt Whitman Archive. Serial Circulation: Print Cultures and Periodical Modernities, DFG, German Research Foundation. Siegen, Germany. June 15-17, 2023.

Heather Richards-Rissetto

Global Integrative Studies (Anthropology)/Center for Digital Research in the Humanities

Presenter/speaker, with Zachary Day. Transcending virtuality? Multimodal and multi-media experimentation. Computer Applications and Quantitative Methods in Archaeology, CAA International. Oxford, England. Aug. 8-11, 2022.

Presenter/speaker, with A. Bain, E. Gonzalez, R. Boger, S. Perdikaris. Retire to the country: Recent research at the Highland House Site, Antigua and Barbuda. Conference on Historical and Underwater Archaeology, Society of Historical Archaeology. Lisbon, Portugal. Jan. 4-7, 2023.

Presenter/speaker, with Amy E. Thompson. Subsistence in the peripheries: Modeling ancient Maya milpa cycles in western Honduras and southern Belize. Society for American Archaeology. Portland, OR. March 28-April 2, 2023.

Presenter/speaker, with Loa Traxler, Richard Wood, Christine Wittich et al. Documenting archaeological tunnels within the Copan Acropolis: Part 1: Advances in architectural and geospatial recording for conservation. Society for American Archaeology. Portland, OR. March 28-April 2, 2023.

Presenter/speaker, with Richard Wood, Christine Wittich, Luis Tuarez, Melvin Elisandro Garza Roldan. Documenting archaeological tunnels within the Copan Acropolis, Part 2: Geospatial data and structural modeling of Temple 16. Society for American Archaeology. Portland, OR. March 28-April 2, 2023.

Presenter/speaker, with David Newton, Sanyam Agrawal, Amy E. Thompson, Keith Prufer. 3D deep learning using airborne lidar for ancient Maya sites in tropical regions. Computer Applications and Quantitative Methods in Archaeology, CAA International. Amsterdam, Netherlands. April 3-6, 2023.

Arman Roohi Computing

Presenter/speaker, with Ranyang Zhou, Durga Misra, Shaahin Angizi. Flexidram: A flexible in-DRAM framework to enable parallel general-purpose computation. International Symposium on Low Power Electronics and Design, Association for Computing Machinery/Institute of Electrical and Electronics Engineers. Boston, MA. Aug. 1-3, 2022

Presenter/speaker, with Sepehr Tabrizchi, Shaahin Angizi. Design and evaluation of a robust power-efficient ternary SRAM cell. International Midwest Symposium on Circuits and Systems, Institute of Electrical and Electronics Engineers. Fukuoka, Japan. Aug. 7-10, 2022.

Presenter/speaker, with Minhaz Abedin, Nathaniel Cady, Shaahin Angizi. Work-in-progress: A processing-in-pixel accelerator based on multi-level HfOx ReRAM. International Conference on Compilers, Architecture, and Synthesis for Embedded Systems, Institute of Electrical and Electronics Engineers. Shanghai, China. Oct. 7-14, 2022.

Presenter/speaker, with Sepehr Tabrizchi, Shaahin Angizi. TizBin: A low-power image sensor with event and object detection using efficient processing-in-pixel schemes. International Conference on Computer Design, Institute of Electrical and Electronics Engineers. Olympic Valley, CA. Oct. 23-26, 2022.

Presenter/speaker, with Emily Lattanzio, Ranyang Zhou, Abdallah Khreishah et al. Toward a behavioral-level end-to-end framework for silicon photonics accelerators. International Green and Sustainable Computing Conference, Institute of Electrical and Electronics Engineers. Pittsburgh, PA. Oct. 24-25, 2022.

Presenter/speaker, with Ranyang Zhou, Durga Misra, Shaahin Angizi. ReD-LUT: Reconfigurable in-DRAM LUTs enabling massive parallel computation. International Symposium on Low Power Electronics and Design, Association for Computing Machinery/Institute of Electrical and Electronics Engineers. San Diego, CA. Oct. 30-Nov. 3, 2022.

Presenter/speaker, with Ali Nezhadi, Shaahin Angizi. semiMul: Floating-point free implementations for efficient and accurate neural network training. International Conference on Machine Learning and Applications, Institute of Electrical and Electronics Engineers. Nassau, Bahamas. Dec. 12-14, 2022.

Presenter/speaker, with Mehrdad Morsali, Ranyang Zhou, Sepehr Tabrizchi, Shaahin Angizi. XOR-CiM: An efficient computing-in-SOT-MRAM design for binary neural network acceleration. International Symposium on Quality Electronic Design, Institute of Electrical and Electronics Engineers. San Francisco, CA. April 5-7, 2023.

Presenter/speaker, with Ranyang Zhou, Sepehr Tabrizchi, Mehrdad Morsali, Shaahin Angizi. P-PIM: A parallel processing-in-DRAM framework enabling row hammer protection. Design, Automation and Test in Europe Conference and Exhibition, Institute of Electrical and Electronics Engineers. Antwerp, Belgium. April 17-19, 2023.

Presenter/speaker, with Sepehr Tabrizchi, Rebati Gaire, Shaahin Angizi. SenTer: A reconfigurable processing-in-sensor architecture enabling efficient ternary MLP. Great Lakes Symposium on Very Large Scale Integration, Association for Computing Machinery. Knoxville, TN. June 5-7, 2023.

Milad Roohi

Durham School of Architectural Engineering and Construction

Presenter/speaker, with Craig Davis, Kent Yu, Maria Koliou, Don Scott. The role of critical facility performance and functional recovery in community resilience to natural hazards. American Society of Civil Engineers Convention. Anaheim, CA. Oct. 23-26, 2022.

Presenter/speaker. Minimal sensing and model-data fusion for performance-based seismic monitoring of instrumented buildings. Round-Table Workshop on Leveraging Low-Cost Seismic Networks in Building Resilient Cities and Infrastructures, National Center for Research on Earthquake Engineering and the Taiwan Earthquake Research Center. Taipei, Taiwan. March 20-21, 2023.

Presenter/speaker, with Stefan Schauer, Laura Petersen, Rob Grace. From resilient critical infrastructures to a resilient society. Global Information Systems for Crisis Response and Management Conference, University of Nebraska at Omaha. Omaha, NE. May 28-31, 2023.

Presenter/speaker, with Saeid Ghasemi. Accounting for cascading failure of interdependent civil infrastructure in seismic resilience modeling of communities. Engineering Mechanics Institute Conference, American Society of Civil Engineers, Georgia Tech. Atlanta, GA. June 6-9, 2023.

Presenter/speaker. Enhancing community resilience with minimal instrumentation and performance-based seismic monitoring of buildings. Engineering Mechanics Institute Conference, American Society of Civil Engineers, Georgia Tech. Atlanta, GA. June 6-9, 2023.

Blake Runnalls Marketing

Presenter/speaker, with Brian Blume, Jason Huang, Zhonghao Wang, J. Kevin Ford. Sink or swim? Antecedents and outcomes of informal field based learning. Society for Industrial and Organizational Psychology Conference. Boston, MA. April 17-22, 2023.

Amit Saini Marketing

Presenter/speaker, with Durgesh Pattanayak. Role of risk management capability in achieving B2B NPD resilience and NPD success. Summer Academic Conference, American Marketing Association. Chicago, IL. Aug. 12-14, 2022.

S. Sajeesh Marketing

Presenter/speaker, with Preethika Sainam. Service vs. price cues: Retailers' strategic choice in the presence of consumer heterogeneity. Marketing Dynamics Conference, Georgia State University. Atlanta, GA. Nov. 10-12, 2022.

Presenter/speaker, with Preethika Sainam. Service vs. price cues: Retailers' strategic choice in the presence of consumer heterogeneity. Winter Educators' Conference, American Marketing Association. Nashville, TN. Feb. 10-12, 2023.

Presenter/speaker, with Ece Baskol, Özgür Araz. Impact of obesity policy perceptions on firms' marketing outcomes. Production and Operations Management Society Annual Conference. Orlando, FL. May 21-25, 2023.

Rachel E. Schachter

Child, Youth and Family Studies

Presenter/speaker, with N. Koziol, J. Bohaty, H. Yoon, A. Witte et al. Nebraska WORDS: Improving reading achievement in rural elementary schools. Pacific Coast Research Conference. San Diego, CA. Feb. 5-7, 2023.

Presenter/speaker, with M. Hebert, N. Koziol, J. Bohaty, et al. Improving K-3 reading using professional development and tutoring: Project WORDS. Council for Exceptional Children Conference. Louisville, KY. March 1-5, 2023.

Presenter/speaker, with L. Knoche, M. Goldberg, J. Lu. The empirical research base of early childhood coaching: A mapping review. American Education Research Association Annual Conference. Chicago, IL. April 13-16, 2023.

Presenter/speaker, with Y. Joo. Interconnectedness between teachers' beliefs about curriculum, planning, and implementation. American Education Research Association Annual Conference. Chicago, IL. April 13-16, 2023.

Presenter/speaker, with C.B. Gabas, P. Wernick. What happens during circle time in preschool classrooms? Structure and learning content. American Education Research Association Annual Conference. Chicago, IL. April 13-16, 2023.

Susan Sheridan

Educational Psychology/ Nebraska Center for Research on Children, Youth, Families and Schools

Presenter/speaker, with E.S. Brower, M.C. Willis, A.L. Witte, L.A. Wheeler. Teachers and Parents as Partners: Strengthening parent-teacher relationships through consultation. International School Psychologists Association Annual Convention. Leuven, Belgium. July 7-10, 2022.

Presenter/speaker, with A.L. Witte, M.C. Willis, E.S. Brower. Teachers and Parents as Partners: Increasing accessibility through technology. International School Psychologists Association Annual Convention. Leuven, Belgium. July 7-10, 2022.

Presenter/speaker, with A.L. Witte. Family-school partnerships: Proven strategies to promote success for students at risk. International School Psychologists Association Annual Convention. Leuven, Belgium. July 7-10, 2022.

Presenter/speaker, with E.S. Brower, M.C. Willis, L.A. Wheeler, A.L. Witte, M.J. Gormley et al. Enhancing teachers' relationships with Latinx parents and beliefs about involvement. American Psychological Association Annual Convention. Minneapolis, MN. Aug. 4-6, 2022.

Presenter/speaker, with L.L. Knoche, N. Koziol, A.L. Witte et al. Closing gaps for children in poverty: The role of play. American Psychological Association Annual Convention. Minneapolis, MN. Aug. 4-6, 2022.

Presenter/speaker, with E.S. Brower, L.A. Wheeler, K.E. Brown, M.J. Gormley. Unpacking perspectives on family-school partnerships from educators and Latinx families. National Association of School Psychologists Annual Convention. Denver, CO. Feb. 7-10, 2023.

Presenter/speaker, with A.L. Witte, K. Derr. Family-school partnerships: Targeted support for rural students. Nebraska Rural Community Schools Association Spring Conference. Kearney, NE. March 14-15, 2023.

Presenter/speaker, with L.L. Knoche, H. Yoon, C. Boise et al. Teacher, child and family relationships: Supporting the development of infants/toddlers. Society for Research in Child Development Biennial Meeting. Salt Lake City, UT. March 23-25, 2023.

Presenter/speaker, with L.L. Knoche, H. Yoon. Infant/toddler well-being in childcare: What is the role of sustained parent-teacher relationships? Society for Research in Child Development Biennial Meeting. Salt Lake City, UT. March 23-25, 2023.

Presenter/speaker, with L.L. Knoche, N. Koziol, A.L. Witte et al. Sustained relationships across the early elementary years: Association with children's social-behavioral skills. Society for Research in Child Development Biennial Meeting. Salt Lake City, UT. March 23-25, 2023.

Presenter/speaker, with L.A. Wheeler, E.S. Brower, A.L. Witte et al. Teachers and Parents as Partners: Creating meaningful connections through collaboration. Symposium on Centering Family Voice: Partnership Interventions with Marginalized Families, Society for Research in Child Development Biennial Meeting. Salt Lake City, UT. March 23-25, 2023.

Presenter/speaker. Creating meaningful engagement through relationships. Symposium on Advancing Family Engagement in Education Research to Promote Equity, Institute of Education Sciences Annual Principal Investigators Meeting. Virtual. May 16-18, 2023.

Jessica Shoemaker

Law

Presenter/speaker. Lessons from U.S. indigenous land relations. The Future of Aboriginal Title Workshop. Vancouver, BC, Canada. June 24, 2022.

Presenter/speaker. Calibrating attachment: Property and place. Law and Society Association Annual Meeting. Lisbon, Portugal. July 15, 2022

Speaker/panel co-organizer/chair. Re-placing Turtle Island/North American property law: Historic problems, modern disagreements, and imagining legal solutions. Law and Society Association Annual Meeting. Lisbon, Portugal. July 15, 2022.

Panel participant. Rules and relationships: Why rural place matters. Law and Society Association Annual Meeting. Lisbon, Portugal. July 16, 2022.

Presenter/speaker. Special session: Rural America – Powerful or powerless? Rural Sociology Society Annual Meeting. Westminster, CO. Aug. 6, 2022.

Presenter/speaker. Choosing a property regime: Farmland futures. Brigham-Kanner Property Rights Conference, William and Mary Law School. Williamsburg, VA. Sept. 30, 2022.

Presenter/speaker. Rural law and policy. Law and Rurality Workshop. Lincoln, NE. Oct. 21, 2022.

Presenter/speaker. Indigenous-led land reform in the United States and Canada. University of Idaho College of Law's Hot Topics in Indian Law Symposium. Moscow, ID. Feb. 17, 2023.

Presenter/speaker. Re-placing property. Faculty Workshop Series, Washington University in St. Louis School of Law. St. Louis, MO. Feb. 22, 2023.

Presenter/speaker. Property and place: Calibrating commodification. American Association of Geographers Annual Meeting. Denver, CO. March 25-27, 2023.

Sunil Singh Marketing

Presenter/speaker, with Jagdip Singh, Ravi Sohi, Avinash Malshe. Performance outcomes of self-promotion acts for marketing boundary spanners. Organizational Frontlines Research Conference, American Marketing Association. Nashville, TN. Feb. 9-10, 2023.

Ash Eliza Smith Johnny Carson Center for Emerging Media Arts

Presenter/speaker, with Stephanie Sherman. Platform promiscuity: Edging in the industrial identity complex. Edge Play: Association for the Study of the Arts of the Present. Los Angeles, CA. Sept. 14-17, 2022

Presenter/speaker, with Robert Twomey, Jinku Kim. Radio play: Live participatory worldbuilding with GPT-3. Society for Literature, Science and the Arts Annual Conference, Purdue University. West Lafayette, IN. Oct. 6-9. 2022.

Presenter/speaker. Storytelling and co-creation for global change: A worldbuilding methodology. Screenwriting Research Network Annual Conference: Globalizing Screenwriting, Department of Theatre, Film and Media Studies, University of Vienna. Vienna, Austria. Oct. 22-24, 2022.

Presenter/speaker. Countryside to outer space: Post-pastoral digital speculations. Exploring Design Beyond the Human, Zurich University of the Arts in Switzerland. Zurich, Switzerland. Oct. 27-28, 2022.

Presenter/speaker, with Stephanie Sherman, Joshua Herr, Yasaman Sheri. Flyover fictions: Extreme life. International Conference on Anticipation, Julie Ann Wrigley Global Futures Laboratory, Arizona State University. Tempe, AZ. Nov. 16-18, 2022.

Presenter/speaker, with Robert Twomey. Emergent narrative systems. Artist Talks: Beall Center Art + Technology Series, UCI Claire Trevor School of the Arts. Irvine. CA. March 9, 2023.

Presenter/speaker, with Robert Twomey, Elsbeth Magilton, Santosh Pitla, Yufeng Gu. Simulation and speculation for earthly survival. Water for Food Global Conference, Daugherty Water for Food Global Institute, University of Nebraska. Lincoln, NE. May 8-10, 2023.

Presenter/speaker, with Robert Twomey, Miller Puckette. Radio Play: Live participatory worldbuilding and co-creation with AI (episode 3). International Symposium on Electronic Art. Paris, France. May 16-21, 2023. Ravi Sohi Marketing

Presenter/speaker, with Carissa Kim. Customer mistreatment: A dyadic perspective. Winter Educators' Conference, American Marketing Association. Nashville, TN. Feb. 10-12, 2023.

Presenter/speaker, with Plavini Punyatoya. Managing time for selling effectively. Academy of Marketing Science Annual Conference. New Orleans, LA. May 17-19, 2023.

Jason Stamm Sports Media and Communication

Presenter/speaker, with Erin Whiteside. Ask and you shall receive: Sedona Prince, Twitter, and the tempting promises of neoliberalism. Association for Education in Journalism and Mass Communication Annual Conference. Detroit, MI. Aug. 3-6, 2022.

Presenter/speaker. Five stars? Four stars? A uses and gratifications approach to who follows college sports recruiting websites. Association for Education in Journalism and Mass Communication Annual Conference. Detroit, MI. Aug. 3-6, 2022.

Presenter/speaker, with Sandy Alspach, Guy Harrison, Thomas Horky et al. Best practices in communication and sport pedagogy. International Association for Communication and Sport Annual Conference. Barcelona, Spain. March 9-11, 2023.

Presenter/speaker, with Kate Lavelle. COVID, NIL and mental health: How collegiate student athletes juggle increased pressures and stressors. International Association for Communication and Sport Annual Conference. Barcelona, Spain. March 9-11, 2023.

Jay Storz Biological Sciences

Keynote speaker. Heme proteins in health and disease. International Conference on Oxygen Binding and Sensing Proteins. Rome, Italy. Sept. 30, 2022.

Guy Trainin Teaching, Learning and Teacher Education

Presenter/speaker, with Ji Guo. The use of E-textbooks in higher education. Finnish Learning Analytics and Artificial Intelligence in Education Conference, Eastern Finland University. Joensuu, Finland. Sept. 28-30, 2022.

Presenter/speaker, with Ji Guo. Exploring student engagement and self-regulation: A learning analytics approach. Finnish Learning Analytics and Artificial Intelligence in Education Conference, Eastern Finland University. Joensuu, Finland. Sept. 28-30, 2022.

Presenter/speaker, with Ji Guo. Measuring self-regulation: A learning analytics approach. Finnish Learning Analytics and Artificial Intelligence in Education Conference, Eastern Finland University. Joensuu, Finland. Sept. 28-30, 2022.

Presenter/speaker, with Danae Peterson. Architecture as a reparative force in the learning and development of children negatively impacted by adverse childhood experiences (ACEs): Praxis and products for 21st century learning and design. LearningScapes Conference, Association for Learning Environments. San Antonio, TX. Oct. 6-9, 2022.

Presenter/speaker, with Japhet Okuntade, M.B. Luckay. Understanding the interplay of micro-teaching skills (MTS) through technological device: A video analysis. South African Educational Research Association Conference. Capetown, West Cape, South Africa. Oct. 31-Nov. 2, 2022.

Presenter/speaker, with Lydiah Kiramba. Teacher preparation for immigrant background students: Teachers of African immigrant and refugee background students. Literacy Research Association Annual Meeting. Phoenix, AZ. Nov. 29-Dec. 1, 2022.

Presenter/speaker, with Stephanie Wessels. Learning from bilingual families to use bilingual books as an entry point to biliteracy. Literacy Research Association Annual Meeting. Phoenix, AZ. Nov. 29-Dec. 1, 2022.

Presenter/speaker, with Xianquan Liu. The impact of non-cognitive factors on TPACK self-efficacy for foreign language educators in the U.S. and China. Comparative and International Education Society Annual Meeting. Washington, D.C. Virtual. Feb. 14-22, 2023.

Presenter/speaker, with Kimberley D'Adamo, Jessica Davis, Lorinda Rice. Artistic door to project-based learning: The creative research cycle. Nebraska Educational Technology Association Meeting. Omaha, NE. March 16-17, 2023.

Presenter/speaker, with Dwight Miller. Impact of the pandemic on computer science education. Nebraska Educational Technology Association Meeting. Omaha, NE. March 16-17, 2023.

Presenter/speaker, with Tamanna Kabir, A. Jahan. Make my owl happy: Using Duolingo to learn English in Bangladesh. Nebraska Educational Technology Association Meeting. Omaha, NE. March 16-17, 2023.

Presenter/speaker, with Lydiah Kiramba, Qizhen Deng. Digital communication with school for immigrant and minority families. Nebraska Educational Technology Association Meeting. Omaha, NE. March 16-17. 2023.

Presenter/speaker, with HyeonJin Yoon, Lorinda Rice. Connecting professional development impacts to student outcomes. Creative Collaborations: Partnering through Artful Education Conference, U.S. Department of Education. Washington, D.C. March 29-31, 2023.

Presenter/speaker, with Kimberley D'Adamo, Lorinda Rice, HyeonJin Yoon, Mackayla Kelsey. Nurturing educators who integrate art, core subjects, and culturally responsive teaching to support students in becoming makers of change. Creative Collaborations: Partnering through Artful Education Conference, U.S. Department of Education. Washington, D.C. March 29-31, 2023.

Presenter/speaker, with Lydiah Kiramba. Teacher preparation positionally and agency: Teachers of African immigrant and refugee students. American Educational Research Association Virtual Meeting. Chicago, IL. May 4-6, 2023.

Presenter/speaker, with K. D'Adamo, L. Rice, M. Sellers. The creative research cycle: Student voice and creativity in arts integration. International Society for Technology and Education Conference. Philadelphia, PA. June 25-28, 2023.

Presenter/speaker, with Katie Johnson, Deepika Menon, Amanda Thomas. Preparing new teachers for equity in teaching about and through technology. International Society for Technology and Education. Philadelphia, PA. June 25-29, 2023.

Robert Twomey Johnny Carson Center for Emerging Media Arts

Presenter/speaker, with Marilene Oliver, Stephan Moore. Joint art papers and art gallery session. Association for Computing Machinery's Special Interest Group on Computer Graphics and Interactive Techniques. Vancouver, BC, Canada. Aug. 8-11, 2022.

Presenter/speaker. Intelligences: Al and interaction. Roundtable Session, Association for Computing Machinery's Special Interest Group on Computer Graphics and Interactive Techniques. Vancouver, BC, Canada. Aug. 8-11, 2022.

Presenter/speaker. Three stage drawing transfer. LABS Session, Association for Computing Machinery's Special Interest Group on Computer Graphics and Interactive Techniques. Vancouver, BC, Canada. Aug. 8-11, 2022.

Presenter/speaker, with Ash Eliza Smih, Jinku Kim. Radio play: Live participatory worldbuilding with GPT-3. Society for Literature, Science and the Arts Annual Conference, Purdue University. West Lafayette, IN. Oct. 6-9, 2022.

Presenter/speaker. Communing with creative AI. Design-at-Large Speaker Series, Design Lab, University of California, San Diego. La Jolla, CA. Feb. 8, 2023.

Presenter/speaker, with Ash Eliza Smith. Emergent narrative systems. Artist Talks: Beall Center Art + Technology Series, UCI Claire Trevor School of the Arts, Irvine, CA. March 9, 2023.

Presenter/speaker, with Chris Longhurst, Tiffany Amariuta-Bartell, Vincent Nijs. GPT: Implications for healthcare, business, research, and art. ChattingGPT, San Diego Supercomputer Center and Halicioğlu Data Science Institute. La Jolla, CA. April 25, 2023.

Presenter/speaker. Communion and cohabitation. Media Art and Technology (MAT) Seminar Series, University of California, Santa Barbara. Santa Barbara, CA. May 1, 2023.

Presenter/speaker, with Ash Eliza Smith, Elsbeth Magilton, Santosh Pitla, Yufeng Gu. Simulation and speculation for earthly survival. Water for Food Global Conference, Daugherty Water for Food Global Institute, University of Nebraska. Lincoln, NE. May 8-10, 2023.

Presenter/speaker, with Ash Eliza Smith, Miller Puckette. Radio Play: Live participatory worldbuilding and co-creation with AI (episode 3). International Symposium on Electronic Art. Paris, France. May 16-21, 2023.

Shari R. Veil Advertising and Public Relations

Presenter/speaker. Beyond "thoughts and prayers": Incorporating memorialization and grief leadership into the crisis communication plan. Public Relations Educators Academy Summit, Public Relations Society of America. Grapevine, Texas. Nov. 12-15, 2022.

Presenter/speaker. The contextual challenges of spillover crisis. Communication and Culture Research Symposium, Erasmus Research Centre for Media. Rotterdam, Netherlands. Nov. 13-14, 2022.

Presenter/speaker. Engaging with the community: Innovative curricular initiatives. Call for Leadership, Association of Schools of Journalism and Mass Communication. Virtual. March 21, 2023.

Mark Vrtiska Natural Resources

Presenter/speaker, with Desslegn Ejigu, Larkin A. Powell. Trumpeter swan fidelity and winter movements in the Nebraska Sandhills. International Swan Symposium and Swan Conference, Trumpeter Swan Society/Ricketts Conservation Foundation. Jackson, WY. Oct. 24-27, 2022.

Presenter/speaker, with Michael G. Anderson, James A. Dubovsky. The North American trumpeter swan survey — resurrection or R.I.P.? International Swan Symposium and Swan Conference, Trumpeter Swan Society/Ricketts Conservation Foundation. Jackson, WY. Oct. 24-27, 2022.

Presenter/speaker, with Matt P. Gruntorad, Chris J. Chizinski. Goose hunting vs. duck hunting: What satisfies the Central Flyway goose hunter? North American Arctic Goose Conference. Corpus Christi, TX. Dec. 6-9, 2022.

Adam Wagler

Advertising and Public Relations

Presenter/speaker. Teaming up with technology developers: A capstone advertising campaigns course collaborations with engineering and computer science. Association for Education in Journalism and Mass Communication Annual Conference. Detroit, MI. Aug. 7-10, 2022.

Presenter/speaker. The experience lab: Student run media platforms from day one at scale. Association for Education in Journalism and Mass Communication Annual Conference. Detroit, MI. Aug. 7-10, 2022.

Presenter/speaker. Exploring the metaverse as a new platform for owned media. University of South Carolina College of Information and Communications Speaker Series. Columbia, SC. Jan. 16-17, 2023.

Jessica Walsh Journalism and Mass Communications

Presenter/speaker. What's with the water: The nature of reporting on the problem of nitrates in Nebraska. Midwest Public Health Innovation and Research Expo, University of Nebraska Medical Center. Omaha, NE. Oct. 28, 2022.

Presenter/speaker, with Mildred Perreault, Gregory Perreault, Louisa Lincoln. "We don't have a beat. We have a job.": Epistemologies of rural journalism. Association for Education in Journalism and Mass Communication Midwinter Conference. Norman, OK. Feb. 24-25, 2023.

Presenter/speaker. How are journalists framing water stories in the Midwest? Water for Food Global Conference, Daugherty Water for Food Global Institute, University of Nebraska. Lincoln, NE. May 9, 2023.

Lily Wang

Durham School of Architectural Engineering and Construction

Keynote speaker. Linking indoor acoustic conditions to human wellbeing and performance. Inter-Noise 2022, International Institute of Noise Control Engineering. Glasgow, Scotland. Aug. 21-24, 2022.

Presenter/speaker. Broadening participation in acoustics: Personal reflections and pathways forward. Acoustical Society of America Meeting. Nashville, TN. Dec. 5-9, 2022.

Presenter/speaker. Links between indoor acoustic conditions and human well-being and performance. Healthy Buildings 2023 Europe. Aachen, Germany. June 11-14, 2023.

Paul Weitzel Law

Presenter/speaker. The case against officer fiduciary duties. National Business Law Scholars, University of Tennessee. Knoxville, TN. June 16-17, 2023.

Sandra Williams

Art, Art History and Design

Presenter/speaker. The ravenous feminine: The unruly body in public space. Southwest Popular/American Culture Association. Albuquerque, NM. Feb. 21-26, 2023.

Trish Wonch Hill

Center for Science, Mathematics and Computer Education

Presenter/speaker, with Judy Diamond, Julia McQuillan. Using comics and art to provide accurate health and science information about viruses, pandemics, and vaccination. Virtual Health Misinformation Symposium, Network of the National Library of Medicine, NIH-NNLM. Virtual. April 4-6, 2023.

Presenter/speaker, with Lance C. Pérez, Sohrab Asgarpoor, David Jones, Zachary George Short, Jennifer N. Rutt. "I haven't really made those connections that maybe most would their first year": A qualitative study of the COVID-19 pandemic and student social capital among 3 cohorts of first-year engineering majors. American Society for Engineering Education Annual Conference and Exposition. Baltimore, MD. June 25-28, 2023.

Julie Wu Finance

Presenter/speaker. Investor ESG tastes and asset pricing. Conference on CSR, the Economy and Financial Markets. Chicago, IL. Nov. 9-20, 2022.

Presenter/speaker. Investor ESG tastes and asset pricing. Society for Financial Studies Cavalcade Asia-Pacific. Virtual. Dec. 16-18, 2022.

Presenter/speaker. Investor ESG tastes and asset pricing. Midwestern Finance Association. Chicago, IL. March 16-18, 2023.

Shi-Hua Xiang Veterinary Medicine and Biomedical Sciences/ Nebraska Center for Virology

Presenter/speaker, with Leah Liu Wang. CD4 and CD4-mimetic compounds as entry inhibitors to block filovirus infections. American Society for Virology Annual Meeting. Athens, GA. June 24-28, 2023.

Mentorship: UCARE and FYRE Programs

The Undergraduate Creative Activities and Research Experience program and the First Year Research Experience program enable Husker undergraduate students to work one-on-one with a faculty member on a research or creative project in the mentor's field of scholarship. The following faculty members mentored students during the summer of 2022 and/or the 2022-2023 academic year. Student UCARE researchers are identified by name, major and project title. FYRE students, who are assigned to laboratories rather than specific projects, are identified by name and major.

Compiled by the Office of Undergraduate Research and Fellowships

Heather Akin

Agricultural Leadership. **Education and Communication**

Emma Hoffschneider, agricultural economics/agricultural and environmental sciences communication. Economic Impact of Entrepreneurship in Rural Communities

Fadi Alsaleem

Durham School of Architectural Engineering and Construction

Ian Parmley, pre-mechanical engineering. Development of Noble Helium Sensor for Nuclear Waste Management

Amy Anderson

Criminal Justice

Morgan Graham, psychology. An Assessment of the Efficacy of Sex Offender Community Notification

Byron Anway

Art. Art History and Design

Qige Martinez, art. Collage Body Portraits, Graphite on Paper

Taylor Powell, art. Pictorial Representations of Memory, Watercolor on Paper

Stacy Asher

Art, Art History and Design

Maegan Ludena-Llanos, architectural studies. Design Elements and Stronger Brand Identity for the Weather Ready Farms Program

Jennifer Auchtung

Food Science and Technology

Himanshu Gandhi, microbiology. Predicting Microbial Community Colonization of the Mucosal Layer

Larry Barksdale

Forensic Science

Haley Fleetwood, forensic science. Response Time and Preference of Background Color of Flies and Other Insects

Scott Barrett Psychology

Clayton Christensen, biochemistry/microbiology. Investigating Temporal Delay Between Nicotine Self-Administration and Sucrose Reward Between Biological Sex

Shannon Bartelt-Hunt Civil and Environmental Engineering

Seth Caines, environmental engineering. Textiles as a Source of Microplastic Fibers to Nebraska Streams

Grace Ridgley, journalism (FYRE)

Greg Bashford

Biological Systems Engineering

Olivia Farmen, biological systems engineering. Linear Models with **Functional Transcranial Doppler**

Rick Bevins Psychology

Chase Auman, biochemistry. A Behavioral Economics Approach to Caffeine and Methylphenidate Reward Enhancement

Nathan Bicak Interior Design

Angela Le, interior design. Analyzing and Drawing Spatial Conditions and Interior Design Strategies in Makerspaces

Patrick Bitterman Global Integrative Studies (Geography)

Juliana Amato, economics. Surveying the Structures of U.S. Water Governance

Liam Baker, environmental studies. Surveying the Structures of U.S. Water Governance

Natalia Hagen, fisheries and wildlife/pre-veterinary medicine. Surveying the Structures of U.S. Water Governance

Constance Boehm

University Health Center Emma Farson, biological sciences. UNL Wellness Assessment Trends

Paul Blum Biological Sciences

Sam Ho, biological sciences. Evaluate the Utility of an In Vitro Expression System for Making Recombinant Proteins

Becca Brock Psychology

Michelle Ebrahim, psychology. Pandemic Stress on Parents and Child Internalizing Behaviors

Mai Pham, psychology. Parental Intergenerational Influences / Parental Psychopathology

Nicole Buan Biochemistry

William Bauer, biochemistry (FYRE)

Edric Teut, biological sciences. Electron Transfer in Microorganisms: Essentiality of the E- and F-[Fe4S4] Clusters of the *Methanosarcina acetivorans* CODH Enzyme

Michael Burton Textiles, Merchandising and Fashion Design

Jo Sayer, art. Animating History Lab

Heriberto Cerutti Biological Sciences

Chloe Hoover, management. Sustainability in Dining at the University of Nebraska–Lincoln

Maya Tanikawa-Brown, food science and technology. Sustainability in Dining at the University of Nebraska–Lincoln

James Checco Chemistry

Cole Blasing, biochemistry. Investigating if ATRP Isomerization Causes Bias in Signaling Pathway

Kashish Poore, microbiology. Single-walled Carbon Nanotubes as Biosensors

Kathy Chiou Psychology

Jessica Stump, psychology. Predictors of Ongoing Problems in Victims of Intimate Partner Violence-Related Brain Injury

Berthe Choueiry Computing

Kalim Dumas, computer engineering. Mixed-initiative Solvers for Managing UNL's Math Day Event

Caleb Koranda, computer science. Mixed-initiative Solvers for Managing UNL's Math Day Event

Chase Resio, computer science. Mixed-initiative Solvers for Managing UNL's Math Day Event

Daniel Ciobanu Animal Science

Arabella Hodges, biochemistry. Evaluation of the Relationships between Host-Genetics and Viral Pathogens in Natural Infections

Jessica Corman Natural Resources

Makena Foley, geology. Evaluating Land Use Effects on Metabolism in Nebraska Streams

Brian Onyango, civil engineering (FYRE)

Jacob Reiber, fisheries and wildlife. Factors Impacting Autotrophic and Heterotrophic Activity in Nebraska Streams

Roberto Cortinas Veterinary Medicine and Biomedical Sciences

Addie Wright, pre-veterinary medicine. Tick Collection in Western Nebraska for Identification of Breed and Density

Lindsey Crawford Biochemistry

Emily Hogg, biochemistry. Investigating UL6 Gene in HCMV

Clay Cressler Biological Sciences

Rudra Dixit, biological sciences. Microbiome Role in Susceptibility to Disease in a Population

Erik Holmertz, microbiology. Mix and Match: Antigen Exposure and Environmental Factors Affecting Longevity of *Daphnia magna*

Fiyad Badar Saif Al Sarmi, biological sciences. Microbiota Composition of Zooplankton and the Control of Harmful Algal Blooms

Andrea Cupp Animal Science

Josie Ganser, animal science. The Effects of FSH on Follicle Growth and Fibrosis on Bovine Ovarian Cortex Cultures

Gabrielle Modica, animal science. The Effect of FSH on Heifer Ovarian Cortex Fibrosis Levels In Vitro

Jeffrey Day Architecture

Katherine Brashear, architectural studies. Actual FACT Books

Andy Vo, architectural studies. makeFACT

John DeLong Biological Sciences

Lillie Hizer, biological sciences. Assessing the Role of Vertical Migration in Facilitating Invasive Aquatic Predator Success

Amy Desaulniers Veterinary Medicine and Biomedical Sciences

Steven Faltas, biological sciences. Effects of Corncob Bedding on Testis Morphology and Protein Expression

Carlene Nguyen, biological sciences. Effects of Early Weaning on Testicular Histology and Steroidogenic Protein Abundance

Heidi Diefes-Dux Biological Systems Engineering

Emily Stratman, biological systems engineering. Impact of Weekly Reflection Prompts on First-year Engineering Students' Metacognitive Strategies across an Entire Semester Michael Dodd Psychology

Justin Frandsen, psychology. That's Sick: Implicit Learning and the Processing of Ambiguous Stimuli

Sophia Smyth, psychology. That's Sick: Implicit Learning and the Processing of Ambiguous Stimuli

Eddie Dominguez

Art, Art History and Design

Kinga Aletto, fisheries and wildlife. Creating and Documenting Two Public Art Monuments Under One Theme

Joselyn Andreasen, art. Assistant to Eddie Dominguez

Luke Keilig, art. Bryan West

Brittany Duncan

Computing

Clara Perez, computer science. What It Means to Be a Proficient Unmanned Aerial Vehicle Pilot

Patrick Dussault Chemistry

Eddie Pham, chemistry. Influence of Peroxide Structure on Reactivity Towards C-O Bond Formation

Robert Dyer Computing

Dylan Kramer, software engineering (FYRE)

Kevin Tran, computer science (FYRE)

Catherine Eichhorn

Chemistry

Trish Nguyen, chemical engineering (FYRE)

Lynne Elkins Earth and Atmospheric Sciences

Jessica Sorsen, geology. Kane-Atlantis

Dennis Ferraro Natural Resources

Matthew Klein, fisheries and wildlife. Occupancy Analysis and Population Estimates of Herpetofauna Species at Niobrara Valley Preserve

Nicholas Kowal, fisheries and wildlife. Nebraska's Short-horned Lizard Genetic Diversity, Landscape Occupancy, and Population Status Assessment (Year 3)

Irina Filina Earth and Atmospheric Sciences

Morgan Madsen, geology. Geophysical Mapping of Large-scale Submarine Landslides at the Southern Cascadia Margin Jenna Finch Psychology

Isis Burks, psychology. Is Persistence Associated with Self-Regulation and Academic Skills in the Classroom?

Tracy Nguyen, psychology (FYRE)

Makenzie Starlin, biochemistry. The Moderating Effect of Parent-Teacher Communication on the Link Between Socioeconomic Status and Academic Achievement / Associations Between Parenting Styles and Children's Academic and Social-Emotional Outcomes across Middle Childhood

Madelyn Stock, psychology. Associations between Parenting Styles and Children's Academic and Social-Emotional Outcomes across Middle Childhood

Haley Witthuhn, psychology. The Moderating Effect of Parent-Teacher Communication on the Link between Socioeconomic Status and Children's Academic Achievement

Jesse Fleming Johnny Carson Center for Emerging Media Arts

Ebben Blake, emerging media arts. Sense Experience.

Trystan Nord, emerging media arts. Sense Experience

Hernan Garcia-Ruiz Plant Pathology

Katie Tran, nutritional science and dietetics. Developing Vectors for Editing RNA-dependent RNA Polymerases 3 and 4 in *Arabidopsis thaliana* Using CRISPR/Cas9 / Editing RNA-dependent RNA Polymerases in *Arabidopsis thaliana* Using CRISPR/Cas9

Mohammad Ghashami Mechanical & Materials Engineering

Bakir Al-Ameri, mechanical engineering. Modern No-emission Cooling Systems for Nebraska

Malachi Hood, mechanical engineering. Investigation of Gas-Surface Interactions at the Micro/Nanoscales

Phuong-Khanh (Khanh) Le, mechanical engineering (FYRE)

George Gogos Mechanical & Materials Engineering

Jackson Taylor, mechanical engineering. Flame Weeding Research in the Combustion Lab and in Crop Fields

Mark Griep Chemistry

Clarissa Mason, biochemistry. Evaluation of the Chemistry Teaching Assistant Mentor Program Jason Griffiths Architecture

Christopher Nguyen, architectural studies. PLAIN Design-Build Eastern Redcedar Microdwelling

Daniel Gschwentner Natural Resources

Grace Carey, fisheries and wildlife. Ecological Stoichiometry of Great Plains Lakes

Jiantao Guo Chemistry

Serena Jentz, chemistry. Engineering the Light-switchable Fluorescent Protein, Dronpa, through Unnatural Amino Acid Incorporation for Hydrogen Peroxide Sensing

John Guretzky Agronomy and Horticulture

Benjamin Janssen, plant biology. Floral Survey of the Boundary between Central Nebraska Loess Hills and Central Loess Plains in Hamilton County, Nebraska

Andrew Hamann Biological Systems Engineering

Luke Skrabal, biological sciences. Engineering Exosomes for Targeted miRNA Delivery to Cardiomyocytes

Mohammad Hasan Electrical and Computer Engineering

Nathan Roberts, computer engineering. Understanding the Algorithmic and Dataset Biases in Deep Learning

Thomas Walton, computer science. Understanding the Algorithmic and Dataset Biases in Deep Learning

David Hansen Psychology

Darian Draft, psychology. The Relationship between Sexual Abuse History, Anxiety and Depression, and Social Problems in Youth Who Have Experienced Sexual Abuse

Edward Harris Biochemistry

Reed Rohr, biochemistry. Does Heparin Bind Rodent Stabilin-2?

William Singh, biochemistry. Which Region of Stabilin-2 Binds with Heparin?

Eileen Hebets Biological Sciences

Austin Herold, biological sciences. Investigating Host Preference for Phoresy across Microhabitats in the Nebraska-native Pseudoscorpion Dactylochelifer silvestris

Michael Hebert Special Education and Communication Disorders

Abbey Dyer, speech-language pathology. Project VIEW (Visual Impairments Education in Writing)

Amy Mattern, speech-language pathology. Project VIEW (Visual Impairments Education in Writing)

La'Rae Pickens-Bonebright, elementary education and early childhood education. Project VIEW (Visual Impairments Education in Writing)

Michael Herman Biological Sciences

Betty Dessie, microbiology. Understanding the Virulence Mechanisms and Factors of *Stenotrophomonas maltophilia*

Brooke Strautmann, biological sciences. Generational and Developmental Effects of Pathogenic *Stenotrophomonas* Bacteria on *Caenorhabditis elegans* Survivorship

Jesus Worth, forensic science (FYRE)

Mark Hinchman Interior Design

Said Al Mahrouqi, interior design. Editing, Curating and Contributing to a Database of Architectural Photography

David Holding Agronomy and Horticulture

William Anderson, plant and landscape systems. Diversifying Nebraska Agriculture and Education through Breeding Sweet Corn and Popcorn with Novel Nutritional, Taste and Aesthetic Characteristics

Cleopatra Babor, plant biology. Breeding Colored and Quality Protein Popcorn and Sweetcorn Varieties

Rachel Thomson, biochemistry. Phenotypic, Genetic and Biochemical Analysis of CRISPR-generated High-lysine Maize and Sorghum

Cody Hollist Child, Youth and Family Studies

Ma'Kiya Carter, child, youth and family studies. Music and the Mind: A Look at the Influence of Popular Music and Its Effect on Adolescents' Mental Health

Xia Hong Physics and Astronomy

Hailey Anderson, physics. Probing 2D Ferroelectricity in van der Waals CulnP_2S_6 Using Piezoresponse Force Microscopy

Alyssa Simpson, physics. Application of Ferroelectricity to Photovoltaics

Debra Hope Psychology

Christie Seyl, psychology. Social Scientist Researchers' Understanding of Qualities of Inclusive Research Practices for Transgender and Gender Diverse Communities / Traits Associated with Social Scientist Researchers' Inclusivity of Transgender and Gender Diverse Communities

Josselyn Telule, psychology. Trans Collaborations Clinical Trial

Terry Housh Nutrition and Health Sciences

Calvin Smith, nutrition and health sciences. Differences in Coactivation of the Forearm Flexors and Extensors in the Ipsilateral and Contralateral Arms between Fatiguing Muscle Actions at 30 versus 80% One Rep Maximum

Peisi Huang Physics and Astronomy

Juan Silva, physics. Probing the Higgs Trilinear Coupling in Di-Higgs Production at the LHC

Michelle Hughes Special Education and Communication Disorders

Sarah Rogoz, speech-language pathology. The Relationships between Race/Ethnicity, Mental Health, Socioeconomic Status, Gender and Substance Use

Emira Ibrahimpasic

Global Integrative Studies

Natalie Bourne, psychology (FYRE)

Carsyn Loncke, human rights and humanitarian affairs (FYRE)

Nicole Iverson Biological Systems Engineering

Carley Conover, biological systems engineering. Synchronization of Multiple Cell and Disease Types for Quantification of Extracellular Nitric Oxide

Katrina Jagodinsky History

Samantha Byrd, history. Petitioning for Freedom: Habeas Corpus in the American West

Bethany Ham, forensic science. Petitioning for Freedom: Habeas Corpus in the American West

Grace Heath, women's and gender studies. Petitioning for Freedom: Habeas Corpus in the American West

Janana Khattak, political science. Petitioning for Freedom: Habeas Corpus in the American West

Clare Kramper, history. Petitioning for Freedom: Habeas Corpus in the American West

Ellie Russell, history. Petitioning for Freedom: Habeas Corpus in the American West

Anna Synya, criminology and criminal justice. Petitioning for Freedom: Habeas Corpus in the American West

Mimi Yu, sociology. Petitioning for Freedom: Habeas Corpus in the American West

Uchechukwu Jarrett Economics

Zack Cheek, music. The Relationship between Divorce and Female Education: A Case Study of Ireland

Jeannette Eileen Jones History/Institute for Ethnic Studies

Zainab-Marie Funnah, psychology (FYRE)

Alice Kang Political Science/Institute for Ethnic Studies

Lydia Okuku, management (FYRE)

David Karle Architecture

Elena Garcia Tapia, architectural studies. Operational Landscapes of the Great Plains

Anna Miles, architectural studies. Operational Landscapes of the Great Plains

Taylor Yakel, architectural studies. Operational Landscapes of the Great Plains

Sarah Karle Landscape Architecture

Humaid Musallam Hamed Muslem Al Hinai, landscape architecture. Prairie States Forestry Archive

Kiet Nguyen, landscape architecture. Prairie States Forestry Archive

Srivatsan Kidambi Chemical and Biomolecular Engineering

Remedan Abdulahi, pre-medicine (FYRE)

Idaly Del Rello, psychology (FYRE)

Riley Hestermann, nutritional science and dietetics. Microglial Cells and Two-dimensional Brain Tissue Mimics

Anisha Kadubandi, biological sciences. Differences in Mechanotransduction, Glycolic, YAP, and Oxidative Phosphorylation Gene Expression in Healthy versus Preeclamptic Placental Trophoblasts

Sarah Loftus, biological systems engineering. The Effects of Aging on Lipid Metabolism on Hepatic Co-Culture

Forrest Kievit Biological Systems Engineering

Madisyn Reichert, biological sciences. Synthesis of Nanoparticles for Traumatic Brain Injury Patients

Ari Kohen Political Science

Natalie Beattie, history. Nebraska Holocaust Survivor and WWII Veteran Network and Educational Portal

Abigail Hanson, history. Nebraska Holocaust Survivor and WWII Veteran Network and Educational Portal

Emma Klein, English. Nebraska Holocaust Survivor and WWII Veteran Network and Educational Portal

Ilya Kravchenko Physics and Astronomy

Tatiana Startseva, physics. Investigation of Ice Properties for Radio Neutrino Observatory Greenland

Paige Trevarrow, physics. Analysis of SpiceCore Double Pulses as Seen by the ARA Stations

Ursula Kreitmair Political Science

Ethan Yaroch, political science. Analysis of State-level Climate Mitigation Plans

Karen Kunc Art, Art History and Design

Joselyn Andreasen, art. Studio Assistant at Constellation Studios

Patty Kuo Child, Youth and Family Studies

Amy Hruby, speech-language pathology. The Effects of Parental Responsivity on Semantic Development in Preschoolers

Mona Miller, child, youth and family studies. Mutually Responsive Orientation in a Triadic Family Dynamic

Jaekwon Lee Biochemistry

Thomas Hugo, biochemistry. Mechanisms Behind Hepatocyte Damage Caused by Mineral Dysregulation and Excess Fat

Matthew Silver, biological sciences. Regulation of Mineral Uptake and Distribution to Support Fat Metabolism

Salvador Lindquist

Landscape Architecture

Jace Armstrong, landscape architecture. Parametricism in Planting Design: Computational Methods for Landscape Architecture

Sarah Cope, landscape architecture. Resilient Planting Design for Affordable Housing Developments

Kyle Riley, landscape architecture. LAF Case Study Investigation - Dequindre Cut Greenway, Detroit, MI

Michael Lippman

Classics and Religious Studies

Dane Chamberlin, global studies. Homerathon 2023

Nathan Hill, history. Homerathon 2023

Jonathan Ireland, classics and religious studies. Homerathon 2023

Paige Jennings, psychology. Homerathon 2023

Eva Kramer, emerging media arts (FYRE)

Graydon Kruse, classics and religious studies. Homerathon 2023

Monica Ontiveros, international business (FYRE)

Adam Liska

Biological Systems Engineering

Grace Van Cott, biochemistry. Drought in Nebraska: Past Events and Future Projections to 2100

Andrew Little Natural Resources

Samantha Garcia, fisheries and wildlife. Understanding the Implications of Agriculture Intensification on Local Wildlife Communities Using Trail Camera Footage

Tierney Lorenz

Psychology

Sydnee Lybarger, psychology (FYRE)

Susan Loveall-Hague

Special Education and Communication Disorders

Sydney Hobza, speech-language pathology. Exploring the Roles of Syntax and Working Memory in Reading Comprehension in Down Syndrome

Christopher Mann

Economics

Justin Ho, computer science. Understanding Knowledge Creation and Dissemination from a Graph Perspective

Eric Markvicka Mechanical & Materials Engineering

Calan Brant, mechanical engineering. 3D Printing of Liquid Metalembedded Elastomer with Programmable Droplet Morphology

Kasey Moomau, mechanical engineering. Resetting Mechanical Sintering of Liquid-Metal-Embedded Elastomer Using Electromigration

Merjen Palvanova, mechanical engineering. Enhancing Electrical Properties of LMEEs

Colin Meiklejohn Biological Sciences

Peyton Alder, pre-medicine. Meiotic Drive: Suppressors and Distorters in *Drosophila*

Manal Amon, psychology. Sex-ratio Distorters in Drosophila simulans

Zach Van Brocklin, microbiology. Sex-ratio Distorters in *Drosophila simulans*

Kristi Montooth Biological Sciences

Kailee Ward, microbiology. Investigating the Interactions between Host Metabolic Genotype and Environmental Fermentation on Gut Microbiome Composition

Kennedy Whiting, microbiology. Impacts of the Urban Environment and Season on Diapause Physiology in the Monarch Butterfly

Keegan Moore Mechanical & Materials Engineering

Micah Busboom, mechanical engineering. Reduced-order Modeling of Bolted Joint Loosening: Torque-stiffness and Torque Loss Modeling

Emma Soukup, mechanical engineering. Reciprocity-breaking Suspension Devices for Isolation in Harsh Environments

Aleea Stanford, mechanical engineering. Enhanced Vibration Suppression in Electric Vertical Take-off and Landing Vehicles

Stephen Morin Chemistry

Alexander Sandquist, chemistry. Surface Modification of Polyurethane

Etsuko Moriyama Biological Sciences

Simreen Kaur, computer science. Assessment and Improvement of Next-generation Transcriptome Assembly

Max Mueller Classics and Religious Studies

Chelsea Hanway, anthropology. Wakara's America: Mapping the Untold Story of the Indian Founding Father of the American West

Abbey O'Brien, anthropology. Wakara's America: Mapping the Untold Story of the Indian Founding Father of the American West

Yunwoo Nam Architecture

Ye Jung Cho, civil engineering. Crash Exposure of Pedestrian with Location-based Service Data

Nitesh Nama Mechanical & Materials Engineering

Eric Liu, actuarial science. Computational Models for Artificial Microrobots

Amy Napoli

Child, Youth and Family Studies

Emily Whiting, psychology (FYRE)

Siamak Nejati Chemical and Biomolecular Engineering

Aidan Larsen, chemical engineering. Investigating Ion Exchange with Poly(3,4-Ethylenedithiothiophene) When Synthesized in Oxidative Chemical Vapor Deposition Reactor

Brianna Ryan, chemical engineering. Correlating the Effective Pore Size of Deposited COFs with the Linker Size and Processing Condition

Nicholas Wayman, chemical engineering (FYRE)

Carl Nelson Mechanical & Materials Engineering

John Cerny, mechanical engineering. Dust Mitigation Strategies and Rover Construction Modalities

Noah Garcia, mechanical engineering. Designing a Single-Leg Soft Exoskeleton for Hemiparesis Patient Gait Assistance

Charles McCoy, mechanical engineering. Breaking Strength Degradation of Different Polymers Commonly Used for Textiles Caused by Intense UV Light Exposure in the Presence of a Vacuum

Isaac Regier, mechanical engineering. Generative Design in Aerospace Designed Objects and Prototyping

Mo Sbai, mechanical engineering. Rehabilitation Exoskeleton-Wheelchair Robot / Multitask Robotic Prosthetic Leg for Lower Limb Amputees

Amber Tannehill, mechanical engineering. Designing a Hybrid Locomotion Robot for Lunar Exploration

Jean Marcel Ngoko Djiokap Physics and Astronomy

Lars Pedersen, physics. Photodetachment of Positronium Negative Ion by Time-delayed Circularly Polarized Pulses

Peter Olshavsky Architecture

Rhiannon Strazdas, architectural studies. Steven Holl Architectural Guidebook

Kendra Ordia Interior Design

Makena Ninete, interior design. Till r.+u.: Housing Structure Prototypes

Collin Shearman, interior design. Till r.+u.: Housing Structure Prototypes

Ryan Pedrigi Mechanical & Materials Engineering

Samuel Harvey, mechanical engineering. Comparing Mechanical Strain in Endothelial Cells Under Ultrasound Treatment and Normal Laminar Flow through Computational Modeling

Isabella North, biological systems engineering. Microfluidics - Finding the Atheroprotective Range of Shear Stress for Endothelial Cells

Jillian Smith, biological systems engineering. Synergistic Effects of Matrix Stiffness and Shear Stress on Modulating Endothelial Cell Phenotype

Kurt Piepenbrink

Food Science and Technology

Robert Bauer, biochemistry (FYRE)

Santosh Pitla Biological Systems Engineering

Kaden Monk, mechanized systems management. Autonomous Tendering of Unmanned Ground Vehicles by Unmanned Aerial Vehicles

Kevin Pitt Special Education and Communication Disorders

Nathan Nordby-Bryson, psychology. Exploring User-centered Design to Support Brain-Computer Interface Access to Augmentative and Alternative Communication Devices for Those with Severe Speech and Physical Impairment

Tefjol Pllaha Mathematics

Kolton O'Neal, mathematics. Quantum Computing and Applications

Thomas Powers Plant Pathology

Katie Burton, communication sciences and disorders. A Look at the Biodiversity under a Footprint

Cassidy Chase, animal science. Development of a Field Guide to the Microinvertebrates of the Antarctic Dry Valleys by Morphological and Molecular Methods

Naidaly Gonzalez Miranda, agricultural leadership, education and communication (FYRE)

Petronela Radu Mathematics

Layla Montemayor, mathematics. Nonlocal Heterogeneous Operators

Amanda Ramer-Tait

Food Science and Technology

Sukaina Al-Hamedi, biochemistry. Assessing Microbiome-dependent Differences in Pro-inflammatory Immune Cell Activity in a Mouse Model of Inflammatory Bowel Disease

Jillian Mangold, biological sciences (FYRE)

Kiara Pavlik, microbiology. Testing for Persistence of Newly Isolated *Lactobacillus* Strains in a Mouse Model of Obesity

Emily Plotnik, biological sciences. Quantification and Correlation of pH Levels, Short Chain Fatty Acid Concentrations and *Bifidobacterium infantis* Levels in a Mouse Model of Peanut Allergy

Emily Rau University Libraries

Sally Johnson, elementary education. Cather Archive Collection

Lillian Young, English. Digitizing Willa Cather

Leslie Rault-Bucklin

Entomology

Grey Smith, insect science (FYRE)

Martha Rhoades Natural Resources

Carolyn Billings, forensic science. Evaluation of High-performance Liquid Chromatography and Mass Spectroscopy in the Analysis of N-nitrosoatrazine

Alexis Finch, biological sciences. An Analysis of t(14;18) and Seasonality of Disease, Cause of Death, and Other Chromosomal Abnormalities

Abigail Stevens, biological sciences. Impact of the t(14;18) Chromosomal Abnormality on Non-Hodgkin Lymphoma Subtypes in Nebraska

Wayne Riekhof

Biological Sciences

Quin Barton, biological sciences. Melanin Production and Regulation in *Exophiala viscosium* and *Exophiala limosus*

Angela Le, software engineering (FYRE)

Marissa Mendez-Santiago, biochemistry (FYRE)

Micaylon Moore, biological sciences. Anti-fungal Properties of a Lipid Biosynthesis Inhibitor

Seung-Hyun Ro Biochemistry

Taesung Kim, chemistry. Protective Role of Mammalian Sestrin2 against Arsenic-induced Cytotoxicity

Sabrina Russo Biological Sciences

Clementine Ewomsan, business administration (FYRE)

Abigail Ridder, plant biology. Evaluating Eastern Redcedar Recruitment Success in the Niobrara River Valley

Sangjin Ryu Mechanical & Materials Engineering

Carson Emeigh, mechanical engineering. Development of a Modular Bone-on-a-Chip Platform Using 3D Printing: Microfluidic Cell Compressor/Microfluidic Mother Board and Modules

Rose Pineda, mechanical engineering. Mechanical Properties of Hydrogels / Fabrication and Mechanical Testing of Hydrogel Beads for a Heterogenous Brain Model

Rajib Saha Chemical and Biomolecular Engineering

Yousuf Nasser Hamed Al Farqani, biological sciences. Building a Model Using Machine Learning Methods to Discriminate Healthy and Diseased Cells

Andrea Goertzen, chemical engineering. Assessing the Metabolic Features of Pancreatic Ductal Adenocarcinoma and Potential Drug Targets through Genome-scale Metabolic Modeling

Joiner Pfister, chemical engineering. Robust Bioplastic Production in *Paraburkholderia sacchari* Enabled by Synthetic Biology Tool Characterization

Douglas Schultz Center for Brain, Biology and Behavior

Michelle Barbot, psychology. Identifying Cortical Thickness Changes in the Brain Based on Sports-related Concussion History/ADHD Diagnosis

Bonita Sharif Computing

Nathaniel Liess, electrical engineering. Assessing UML Layout

Aaron Linnell, computer engineering. Assessing How Developers Detect Defects in UML Class Diagrams

Bill Shomos Hixson-Lied College of Fine and Performing Arts

Nate Petsche, music. Productions on a Dime: An Exploration of Low-Budget Musical Theatre for High Schools

Zhigang Shen

Durham School of Architectural Engineering and Construction

Gabriel Clark, software engineering. Investigation of Possible Impacts of Drone-facilitated Hyperspectral Imaging

Bud Shenefelt Architecture

Landyn Bish, architectural studies. Mental Health and Substance Abuse in Rural Nebraska: Addressing Health Disparity through Community Engagement

Luryn Hendrickson, architectural studies. Architecture Hall Renovation: Experiential Learning through Direct Participation

Elias Melendez, architectural studies. Man Camps: Reconsidering Opportunities for Temporary Worker Housing

Elizabeth Pernicek, architectural studies. Mental Health and Substance Abuse in Rural Nebraska: Addressing Health Disparity through Community Engagement

Dai Shizuka Biological Sciences

Carly Trebac, biological sciences. Responses to Conspecific Alarm Calls of a Wintering Bird Species

Iohn Shrader Iournalism and Mass Communications

Evelyn Mejia, broadcasting. Media Presentation, Representation, and Consumption in the Latino Community

Ash Eliza Smith Johnny Carson Center for Emerging Media Arts

Alex Gee, emerging media arts. EXPANDED REALITIES: Spatial Storytelling and Locative Media

Samuel Lawton, emerging media arts. EXPANDED REALITIES: Spatial Storytelling and Locative Media

Kevin Smith Political Science

Kelsey Wright, biochemistry. Threat Sensitivity of Political Conservatives and Liberals

William Spaulding Psychology

Adriann Cotton, psychology. Stigma, Social Experience, and Psychological Well-being in Emerging Adults with Chronic Health Conditions

Pascha Stevenson English

Shaina Isaacsen, English. Healing from Sexual Assault: A Researchbased Fiction Writing Project

Cody Stolle

Mechanical & Materials Engineering/ Midwest Roadside Safety Facility

Gnyarienn Selva Kumar, mechanical engineering. Improving Vehicle Crash Report Data Collection through Forensic Review

Robert Streubel

Physics and Astronomy

Bryce Herrington, physics. Yttrium Iron Garnet Based Ferromagnetic Resonators

Ruthi Zielinski, physics. Yttrium Iron Garnet Based Ferromagnetic Resonators

Gary Sullivan

Animal Science

Laura Reiling, animal science. Evaluate the Effects of Highpressure Processing (HPP) and Lactic Acid Treatments on Quality Characteristics of Ground Pork throughout the Retail Display

Brigitte Tenhumberg

Biological Sciences

Alora Schneider, environmental studies. Phytochemicals Caused Prey Preference of Green Lacewing (*Chrysopa sp.*) on Two Aphid Species (*Aphis nerii* and *Myzocallis asclepiadis*)

Steven Thomas

Natural Resources

Johnathan Kelly, water science. Nitrate, Phosphate, and Ammonia: Their Spatial and Temporal Impacts on Nebraskan Stream Ecosystems in Agricultural Landscapes

Lisa Treidel

Biological Sciences

Renee Box, biological sciences. Seasonal Dynamics of Flight-capable and Flightless Crickets and Their Parasites in Western Nebraska: Coupling Coursework and Field Research at Cedar Point Biological Station to Advance Collaborative Research at UNL

Judith Turk Natural Resources

Mason Rutgers, plant and landscape systems. Modification of the Loss-on-Ignition Method to Improve Predictions of Organic Matter in Soils Containing Minerals Derived from Volcanic Ash

Cindy Vasquez, environmental science. Decomposition Rates in Depressional Wetlands

Sonya Turkman

Interior Design

Basil Hamood Azzan Al Battashi, interior design. Lessons to Learn: Post-pandemic Design and the Future of Retail Interiors

Keely Perkins, interior design. Lessons to Learn: Post-pandemic Design and the Future of Retail Interiors

Grace Vollmuth, interior design. Lessons to Learn: Post-pandemic Design and the Future of Retail Interiors

Joseph Turner

Mechanical & Materials Engineering

William Brandl, mechanical engineering. Ultrasonic Mapping of Material Gradients for Metal Additive Manufacturing

Kevin Van Cott

Chemical and Biomolecular Engineering

Anshul Saraf, biochemistry. Effect of Gene Therapy Using Exosomes

Karin van Diik

Biochemistry

Zoey Armstead, biochemistry. Chromatin Immunoprecipitation Assays for Dissection of Protein-DNA Interactions in Plants and Microorganisms

Odessa Ohrt, biochemistry. Chromatin Immunoprecipitation Assays for Dissection of Protein-DNA Interactions in Plants and Microorganisms

Nathan Ottenbacher, biochemistry. Chromatin Immunoprecipitation Assays for Dissection of Protein-DNA Interactions in Plants and Microorganisms

James Van Etten

Plant Pathology

Cayden Homolka, pre-health. Identification of New *Chloroviruses* with Unique Glycans Attached to their Major Capsid Proteins

Ivan Vechetti

Nutrition and Health Sciences

Filipe Guimaraes Goulart, nutritional science and dietetics. Generating a New Muscle-Specific Mouse Model for Studying MicroRNAs

Trisha Vickrev

Chemistry

Kelbie Schnieder, nutritional science and dietetics. Instructional Improvement of CHEM 109A

Kara Viesca Teaching, Learning and Teacher Education

Habiba Aden, elementary education and early childhood education.
The Role of Race in Student-Teacher Interactions

Rowan Foort, social science. Improving Teaching and Learning in Secondary Social Studies Classrooms

Skylar Jilg-Brown, elementary education. Anti-racist Communities Within Classrooms

Britney Meints, secondary education. Exploring Relations Between Trauma, Schooling, and the Classroom: A Pathway to Trauma-Reducing Curricula

Ashley Votruba Psychology

Kaleigh Costerisan, psychology (FYRE)

Summer Dryden, psychology and criminal justice (FYRE)

Mark Vrtiska Natural Resources

Jade Wawers, fisheries and wildlife. Examining Demographics, Opinions, Preferences, and Attitudes between Public- and Private-land Waterfowl Hunters

Rebecca Wachs Biological Systems Engineering

Evie Barnett, biological systems engineering. Quantification of DRG Phenotypic Changes Resulting from Mechanically Induced Disc Degeneration at a Chronic Time Point

Uyen Nguyen, biological systems engineering. Screening Dieback Compounds in 3D DRG Explant Hydrogel Culture Using a Multicompartmental Device for Long Term and Secondary Effects Studies In Vitro

Peter Wagner Biological Sciences/Earth and Atmospheric Sciences

Blake Lindgren, geology. Ecology of Paleozoic Fauna

Ken Wakabayashi Psychology

Gerin Zimmerman, psychology. Sweetened Alcohol Drinking

Bryan Wang Journalism and Mass Communications

Dissirat Singh, computer science. Social Media Data Mining of Health (Mis)Information

Yingying Wang Special Education and Communication Disorders

Jordan Bollinger, biological systems engineering. Identifying Predicting Factors for Speech Perception Outcomes in Individuals with Cochlear Implants

Brian Wardlow Natural Resources

Lydia Regier, plant biology. Detecting the Invasion of Old World Bluestem (*Bothriochloa spp.*) in Kansas and Nebraska Grasslands via PlanetScope and Sentinel-2 Satellite Imagery

Eric Weaver Nebraska Center for Virology/Biological Sciences

Mikaela Christensen, forensic science. Recombinant Protein Production in a Baculovirus Vector

Ben Vyzourek, biochemistry. Development of an mRNA Vaccine against Human H3 Influenza A Virus

Sandra Williams Art, Art History and Design

Shelby Baker, art. Future Stakeholders: Developing Creative Capital in Rural Nebraska

Mary Willis Nutrition and Health Sciences

Joy Ishimwe, integrated science. On the Health and Wellbeing of Zambian Communities in the Eastern and Southern Provinces

Cole Murphy, nutritional science and dietetics. On the Health and Wellbeing of Zambian Communities in the Eastern and Southern Provinces

Clare Schinzel, child, youth and family studies. On the Health and Wellbeing of Zambian Communities in the Eastern and Southern Provinces

Kenzie Steiner, elementary education. On the Health and Wellbeing of Zambian Communities in the Eastern and Southern Provinces

Richard Wilson Plant Pathology

Grady Dalton, biochemistry (FYRE)

Chelsea Witt Psychology

Sarah Omar, psychology. Impact of Diversity and Inclusion Interventions on Engagement, Belonging, and Bias

Raphael Pepino, social science. Impact of Diversity and Inclusion Interventions on Engagement, Belonging, and Bias

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John Colt, civil engineering (FYRE)

Etienne (Calvin) Doerr, emerging media arts (FYRE)

Judy Wu-Smart Entomology

Helen Little, biological systems engineering. Degradation of Neonicotinoids with Oyster Mushrooms

Shi-Hua Xiang Veterinary Medicine and Biomedical Sciences/ Nebraska Center for Virology

Ryan Brunkhorst, biochemistry. Drug Discovery Targeting RNA Polymerase against Flavivirus Infection

Aidan Hand, biochemistry. Drug Discovery Targeting RNA Polymerase against Flavivirus Infection

Mackenna Petersen, biochemistry. Drug Discovery Targeting RNA Polymerase against Flavivirus Infection

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Center for Science, Mathematics and Computer Education

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Xiaoshan Xu Physics and Astronomy

Abbey Bowers, physics. Annealing Epitaxial Thin Films and Testing Relative Adhesion Strength

Camden Olds, physics. Cobalt-Nickel Oxide Magnetic Properties of Novel Formula Ratios

Ruiguo Yang Mechanical & Materials Engineering

Andrew Minchow, biochemistry. Chemical Synthesis and Modification of Poly(Ethylene Glycol) Diacrylate for Bioprinted Hydrogels in Pluripotent Stem Cell-derived Organoid Generation

Louis Sully, mechanical engineering. Using DLP Bioprinting to Create Photo-crosslinkable Hydrogel Patterns for Cell Patterning

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Lauren Kasparek, computer science. Exploring Intelligent Methods to Vectorize Sequences Towards Trees in Biological Contents

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Justin Nguyen, software engineering (FYRE)

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Limei Zhang Biochemistry

Camden Jones, biochemistry. Characterization of Potential Monomeric Transcription Factors in *Mycobacterium tuberculosis*

Emma Provence, biochemistry (FYRE)

Boris Shabaltiy, biochemistry. Structural and Functional Characterization of PorX from *Porphyromonas gingivalis*

Rohan Tatineni, biochemistry. Identification of the Key Residues Critical for Substrate Binding in LaPhzM

Luwen Zhang Biological Sciences/Nebraska Center for Virology

Grace Claussen, biological sciences. ZIKV Particle and APP Processing In Vitro

Samantha Drury, biochemistry. Combination of Genetic Modification and Induction of IPSCs from Personalized Cells

Avery Marquis, pre-health. Alzheimer's Disease Antidote in a Viral Peptide

Taylor Pierce, pre-health (FYRE)

Chanasei Ziemann, biological sciences. Knockout of PS-IRF9 Gene

Alexander Zupan Mathematics

Lucy DePooter, mathematics. Knot Theory: What is the Smallest Hard Unknot with Respect to Width?

Jack Rankin, mathematics. Fluctuations in Trunk Numbers in Knot Theory

Glossary of Federal Agency Abbreviations

DHHS	ACF CDC	ent of Health and Human Services Administration for Children and Families Centers for Disease Control and Prevention Substance Abuse and Mental Health Services Administration	
DOC	Departme EDA NIST NOAA	ent of Commerce Economic Development Administration National Institute of Standards and Technology National Oceanic and Atmospheric Administration	
DoD	AFOSR ARO ARI CDMRP DTRA DURIP ERDC MDA NAVSEA ONR	ent of Defense Air Force Office of Scientific Research Army Research Office Aviation Restructuring Initiative Congressionally Directed Medical Research Programs Defense Threat Reduction Agency Defense University Research Instrumentation Program Engineer Research and Development Center Missile Defense Agency Naval Sea Systems Command Office of Naval Research U.S. Strategic Command	
DOE		ent of Energy Advanced Research Projects Agency-Energy Energy Efficiency and Renewable Energy National Energy Technology Laboratory Nuclear Energy University Programs	
DOI	Departme FWS NPS USGS	NPS National Park Service	
DOJ	Departme BJA NIJ	ent of Justice Bureau of Justice Assistance National Institute of Justice	
DOT	Department of Transportation FHWA Federal Highway Administration PHMSA Pipeline and Hazardous Materials Safety Administration FRA Federal Railroad Administration		
ED Department of Educ IES Institute of		ent of Education Institute of Education Sciences	
EPA	Environmental Protection Agency		

NASA	National Aeronautics and Space Administration			
NCHRP	National Cooperative Highway Research Program			
NEA	NEA National Endowment for the Arts			
NEH	National	National Endowment for the Humanities		
NIH		Institutes of Health National Cancer Institute National Heart, Lung and Blood Institute National Institute on Alcohol Abuse and Alcoholism National Institute of Allergy and Infectious Diseases National Institute of Arthritis and Musculoskeletal and Skin Diseases National Institute of Biomedical Imaging and Bioengineering National Institute of Child Health and Human Development National Institute on Drug Abuse National Institute on Deafness and Communication Disorders National Institute of Dental and Craniofacial Research National Institute of Diabetes, Digestive and Kidney Disease National Institute of General Medical Sciences National Institute of Mental Health National Institute on Minority Health and Health Disparities National Institute of Neurological Disorders and Stroke		
NSF	National Science Foundation EPSCoR Established Program to Stimulate Competitive Research			
USAID	United States Agency for International Development			
USDA		Agriculture and Food Research Initiative Agricultural Marketing Service Agricultural Research Service Agricultural Research Service Food and Nutrition Service Forestry Service Farm Service Agency National Institute for Food and Agriculture Natural Resources Conservation Service Office of the Chief Economist Sustainable Agriculture Research and Education Program		



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