

Office of Research and Economic Development

RESEARCH AND CREATIVE ACTIVITY

July 1, 2018 - June 30, 2019

Major Sponsored Programs and Faculty Awards for Research and Creative Activity

University of Nebraska-Lincoln



Bob WilhelmVice 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, 2018, to June 30, 2019.

It lists investigators, project titles and funding sources on major grants and sponsored awards received during the year; fellowships and other recognitions and honors bestowed on our faculty; books published by faculty; performances, exhibitions and other creative activity by our faculty; and patents and licensing agreements issued for products of Nebraska research.

2019 marks the university's 150th anniversary, an exciting time to celebrate our "Prairie University" past while defining the university we want to become in the 21st century. This booklet is a snapshot in time, representing Nebraska's impact, both now and in the future. Our researchers are tackling major societal challenges, from ensuring food security, to protecting valuable natural resources to curbing drug addiction in rural areas, among many others. Nebraska scholars are finding innovative ways to showcase historical figures and milestones through digital archives, expanding the ability to translate these important stories to new audiences.

While metrics cannot convey the full story of our work, they are tangible measures of impact. In FY 2018, Nebraska achieved a record \$308 million in total research expenditures, a 26% increase over the past decade. Total sponsored research awards in FY 2019 totaled \$165 million, a 14% increase from the previous fiscal year, and a 35% increase over the past decade. That growth trajectory is phenomenal, made possible by our hard work and desire to change the world.

Industry activity driven by the university is contributing to the state's economic growth and development. Investments in Nebraska Innovation Campus are paying off, with 1,430 jobs created statewide in FY 2018 and a total economic impact of \$238 million. Additionally, for the second time, the University of Nebraska system is ranked among the top 100 academic institutions receiving U.S. patents, a clear demonstration of our talent and national competitiveness.

As a university, we will continue making strategic investments in research and economic development, with the goal of positioning Nebraska as a leading 21st-century land-grant institution. The university's N150 vision document defines aggressive goals for research growth and integrating research into every aspect of the institution. Soon, Chancellor Ronnie Green will unveil N2025, a five-year strategic plan that includes strategies to achieve a research and creative activity enterprise that approaches \$450 million, plus a process for defining and addressing grand challenges that are important to Nebraska and the world.

In my second year as the vice chancellor for research and economic development, I continue to be inspired and impressed by our faculty's dedication. I am pleased to present this record of accomplishments. By pushing the boundaries of research, scholarship and creative activity, Nebraska's growth trajectory will continue to climb.



Bob Wilhelm

CONTENTS

3	Awards of \$5 Million or More
8	Awards of \$1 Million to \$4,999,999
19	Awards of \$250,000 to \$999,999
44	Early Career Awards
47	Arts and Humanities Awards of \$250,000 or More
50	Arts and Humanities Awards of \$50,000 to \$249,99
51	Arts and Humanities Awards of \$5,000 to \$49,999
52	Patents
56	License Agreements
58	Creative Activity
60	Books
62	Recognitions and Honors
66	Glossary

2019 marks the university's
150th anniversary, an exciting
time to celebrate our "Prairie
University" past while defining
the university we want to
become in the 21st century.

Awards of \$5 Million or More

Active awards, July 1, 2018–June 30, 2019

* Indicates new in 2018-2019

Bloom, Kenneth

Physics and Astronomy

U.S. CMS Operations at the LHC \$5,937,263 NSF through Princeton University 1/1/12 – 12/31/21 Swanson, David Computer Science and Engineering



Ken Bloom, professor of physics and astronomy, coordinates the U.S. team of the international research team conducting experiments using the Large Hadron Collider (LHC) at CERN, the European Organization for Nuclear Research in Switzerland. This grant from the National Science Foundation enables the UNL team to support the current High-Luminosity LHC

(HL-LHC) upgrade project.

Brank, Eve

Center on Children, Families and the Law



Eve Brank, professor of psychology and director of the Center on Children, Families and the Law (CCFL), and Kathryn Olson, research assistant professor and assistant director of CCFL, lead this effort to develop and deliver Child and Family Services training 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 Biotechnology/ Center for Plant Science Innovation/ Nebraska Center for Redox Biology

NEDI ASKA GEITTEI TUI KEUUX BIUTUYY
RII Track-1: Center for Root and Rhizobiome Innovation (CRRI)
\$10,000,000 NSF-EPSCoR
6/15/16 - 5/31/21
Adamec, Jiri Biochemistry/Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Alfano, James Plant Pathology/Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Clemente, Thomas Agronomy and Horticulture/
Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Drijber, Rhae
Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Griep, Mark
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Helikar, Tomas Biochemistry/Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Herr, Joshua Plant Pathology/Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Moriyama, Etsuko Biological Sciences/Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Russo, Sabrina Biological Sciences/Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Schachtman, Daniel Agronomy and Horticulture/
Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
Schnable, James Agronomy and Horticulture/
Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
van Dijk, KarinBiochemistry/Center for Biotechnology/
Center for Plant Science Innovation/
Nebraska Center for Redox Biology
37

Walia, Harkamal	Agronomy and Horticulture/ Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Weber, Karrie	Biological Sciences/
	Earth and Atmospheric Sciences/
	Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Yu, Bin Biologica	l Sciences/Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology
Zhang, Chi Biologica	l Sciences/Center for Biotechnology/
	Center for Plant Science Innovation/
	Nebraska Center for Redox Biology



The University of Nebraska–Lincoln is leading a \$20 million, Nebraska-based research effort to improve crop productivity. Funded with a five-year award from the National Science Foundation's Established Program to Stimulate Competitive Research, or EPSCoR, this project draws upon a range of expertise in Nebraska. The university is teaming with scientists at the

University of Nebraska Medical Center, University of Nebraska at Kearney and Doane University on the Center for Root and Rhizobiome Innovation. Project co-leaders are Edgar Cahoon, George W. Holmes Professor of Biochemistry and director of the Center for Plant Science Innovation, and James Alfano, Charles Bessey Professor of Plant Pathology. The research uses a holistic strategy to study root and soil microbe interactions and to develop new biological tools to enhance crop performance.

Claes, Daniel	Physics and Astronomy
U.S. C	CMS Phase-1 Upgrades
\$11,479,310	NSF
6/15/14 - 5/31/19	



Physicist Daniel Claes leads a collaboration involving eight universities to upgrade the Compact Muon Solenoid particle detector, a key component of the world's largest physics experiment. With a five-year, nearly \$11.5 million grant from the National Science Foundation, the team is working to increase the effectiveness of a vital component of the

Large Hadron Collider at CERN laboratory in Switzerland, the supercollider that made discovery of the Higgs boson possible. The Nebraska team was part of the multi-institutional collaboration that built the original CMS experiment, one of two large particle detector

experiments at the Large Hadron Collider. With this NSF grant, they now lead a large research partnership to upgrade the detector in stages through 2019. Their collaborators are at the University of Kansas, University of Illinois at Chicago, Rutgers University, Cornell University, SUNY Buffalo, Purdue University Calumet, Notre Dame University and Northeastern University.

Dombrowski, Kirk Sociology/ Rural Drug Addiction Research Center



Under the leadership of Kirk Dombrowski, John Bruhn Professor of Sociology, a research center focused on understanding and addressing drug addiction in the rural Midwest has been established with an \$11.85 million, five-year grant from the National Institutes of Health. The Rural Drug Addiction Research Center will conduct cutting-edge

research into understanding the extent and nature of rural addiction, develop evidence-based treatment methods and support outreach and policy efforts to help reduce addiction and overdoses. The center's research addresses a wide range of topics, including the neuroscience of polysubstance addiction, cognitive implications of long-term use and the social relationships between rural drug use and violence exposure. The center also seeks to identify effective intervention techniques attuned to the region's specific conditions.

Graef, Michelle Center on Children, Families and the Law

Quality Improvement	Center for Workforce Development
\$15,000,000	DHHS-ACF
9/30/16 - 9/29/21	
Ells, Mark	Center on Children, Families and the Law
Paul, Megan	Center on Children, Families and the Law
Stephenson, Kate	Center on Children, Families and the Law



The University of Nebraska-Lincoln has launched the Quality Improvement Center for Workforce Development with a five-year, \$15 million 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 associate 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.

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 (CASNR) at the University of Nebraska–Lincoln is partnering with various associations and foundations to provide educational opportunities for Rwandan students to participate in the Undergraduate Scholars Program (CUSP). 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 interim dean Tiffany Heng-Moss leads this effort.

Moxley, Rodney Veterinary Medicine and Biomedical Sciences



Rodney Moxley, Charles Bessey Professor of Veterinary Medicine and Biomedical Sciences, leads a major project involving 12 universities and other institutions to target eight of the most dangerous *E. coli* strains throughout the beef production chain. Funded by a \$25 million Agriculture and Food Research Initiative grant

from the U.S. Department of Agriculture's National Institute of Food and Agriculture, the project's long-term goal is to reduce the occurrence and public health risks from Shiga toxin-producing *E. coli* in beef, while preserving an economically viable and sustainable beef industry. The project explores the public health, economic and environmental impacts of existing or new intervention strategies on predicted and actual STEC exposure risk. Innovative education, extension and evaluation efforts are intertwined with research on beef chain STEC risk mitigation and decreased numbers of human STEC cases

Rilett, Laurence

Civil Engineering/ Nebraska Transportation Center



The Mid-America Transportation Center, a consortium of academic institutions led by the University of Nebraska–Lincoln, leads a five-year, \$13 million 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. Laurence Rilett, MATC director and the Keith W. Klaasmeyer Chair in Engineering, leads the new 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, lowa, 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

Schachtman, Daniel

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

Systems Analysis of the Physiological and Molecular Mechanisms of Sorghum Nitrogen Use Efficiency, Water Use Efficiency and Interactions with the Soil Microbiome

\$13,460,684	
8/15/15 - 8/14/20	
Dweikat, Ismail	. Center for Plant Science Innovation/
	Agronomy and Horticulture
Ge, Yufeng	Biological Systems Engineering



Daniel Schachtman, 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.

Takacs, James

Chemistry/Nebraska Center for Integrated Biomolecular Communication

Nebraska Center for Integrated Biomolecular Communication (NCIBC)

(INCI	BC)
\$11,271,372	NIH-NIGMS
8/15/16 - 7/31/21	
Becker, Donald	Biochemistry/NCIBC
Buan Murphy, Nicole	Biochemistry/NCIBC
Cerny, Ronald	
Clarke, Jennifer Statistics/Fo	od Science and Technology/NCIBC
DiRusso, Concetta	Biochemistry/NCIBC
Dodds, Eric	
Hage, David	Chemistry/NCIBC
Harris, Edward	Biochemistry/NCIBC
Kidambi, Srivatsan Chemical and	Biomolecular Engineering/NCIBC
Lee, Jaekwon	Biochemistry/NCIBC
Morton, Martha	Chemistry/NCIBC
Powers, Robert	Chemistry/NCIBC
Riethoven, Jean-Jack	. Center for Biotechnology/ NCIBC
Stains, Clifford	Chemistry/NCIBC
Velander, WilliamChemical and	Biomolecular Engineering/NCIBC
Zhou, You	Center for Biotechnology/NCIBC



With a five-year, \$11.3 million grant from the National Institutes of Health, the University of Nebraska–Lincoln has established a research center focused on investigating cellular-level miscommunications that contribute to complex diseases like cancer, diabetes and chronic liver disease. The NCIBC 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 James Takacs, Charles J. Mach University 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.

Tsymbal, Evgeny

Physics and Astronomy/ Nebraska Center for Materials and Nanoscience

Materials Research Science & Engineering Center: Polarization and Spin



The Materials Research Science and Engineering Center (MRSEC) was established in 2002 with a grant from the National Science Foundation and involves scientists from the Departments of Physics and Astronomy, Chemistry, Mechanical & Materials Engineering, and the School of Biological Sciences. MRSEC projects focus on

fabricating and studying new magnetic structures and materials at the nanometer scale. The research has applications in advanced computing and data storage, handheld electronic devices, advanced sensors and future medical technologies.

Walia, Harkamal

Agronomy and Horticulture



Harkamal Walia, associate professor of agronomy and horticulture, 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 \$5.78 million grant from the

National Science Foundation's Established Program to Stimulate Competitive Research (EPSCoR), 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 \$6,250,000...... Nebraska Public Power District 4/1/16 – 3/31/21

The Nebraska Center for Energy Sciences Research is a collaboration between the university and the Nebraska Public Power District. The center was established in April 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, wind and solar energy), as well as opportunities for energy conservation.

Yoder, Ron Institute of Agriculture and Natural Resources

Rwandan Institute of Conservation Agriculture (RICA)
\$17,210,366 Various Sources
10/13/17 - 12/31/20
Davis, Josh
Heng-Moss, Tiffany College of Agricultural Sciences
and Natural Resources



The Rwanda Institute for Conservation Agriculture (RICA) 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, especially during RICA's critical start-up phase. RICA students will learn the principles of conservation agriculture and One Health while emphasizing written communication, leadership and entrepreneurship. Students at RICA will be 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.

Zempleni, Janos

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



With the support of an \$11.3 million grant from the National Institutes of Health's Center of Biomedical Research Excellence (COBRE) 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, 2018–June 30, 2019

* Indicates new in 2018–2019

Resilience in Agricu \$2,998,886 Munoz-Arriola, Francis Shank, Nancy	Natural Resources ing in Theory and Application of Cross-scale Ilturally Dominated Social Ecological SystemsNSF scoBiological Systems EngineeringPublic Policy CenterAgronomy and Horticulture
Allmand, Matthew	Extension/Biological Systems Engineering/ Food Science and Technology
	extension Partnership Center for Nebraska
Barlow, Steven	Special Education and Communication Disorders
	Modulation of Salivary Gene Expression
	Oral Feeding in Preterm InfantsNIH-NICHD
Deeless Develd	Dischamistrul
Becker, Donald	Biochemistry/ Nebraska Center for Redox Biology
\$4,305,466 Mol	Nebraska Center for Redox Biology Redox Biology CenterNIH-NIGMS ecular Mechanisms of Disease
\$4,305,466 Mol. \$1,010,195	Nebraska Center for Redox Biology Redox Biology CenterNIH-NIGMS
\$4,305,466	Nebraska Center for Redox Biology Redox Biology CenterNIH-NIGMS ecular Mechanisms of DiseaseNIH-NIGMS

Bevins, Rick Psychology Interoceptive Conditioning with Nicotine: Changes in Abuse Liability \$1,786,220	
Pharmacological Interventions to Diminish Nicotine-Associated Responding \$1,429,752	
Bilder, Christopher Statistics Group Testing for Infectious Disease Detection: Multiplex Assays and Back-End Screening \$1,137,836	
Bloom, Kenneth SI2-SSI Data Intensive Analysis for High Energy Physics (DIANA/HEP) \$1,001,324	
Bobaru, Florin Mechanical & Materials Engineering MURI Center for Material Failure Prediction through Peridynamics \$1,003,134DoD-AFOSR through University of Arizona	
Cahoon, Edgar Center for Plant Science Innovation Biochemical Genomics: Deciphering the Chemical Factories of Oilseeds \$1,315,031	
Centurion, Martin Ultrafast Electron Diffraction from Aligned Molecules \$1,041,385	
Clemente, Thomas Center for Plant Science Innovation *RII Track-2 FEC: Functional Analysis of Nitrogen Responsive Networks in Sorghum \$1,337,633	

Center for Advanced Bioenergy and Bioproducts Innovation \$3,886,388	Dowben, Peter Physics and Astronomy/Nebraska Center for Materials and Nanoscience E2CDA: Type I: Antiferromagnetic Magneto-electric Memory and Logic \$3,573,423
Nebraska Center for Research on Children, Youth, Families and Schools School Psychology Specialization in Toddlers with Autism Spectrum Disorders \$1,249,730	Sinitskii, Alexander
Detweiler, Carrick NRI: Enabling Unmanned Aerial Systems (UAS) Fire Ignitions in Complex Firefighting Contexts \$1,003,270	Duppong Hurley, Kristin Communication Disorders Parent Connectors: An Efficacy Study of Peer Support for Parents of Middle-School Youth with Emotional Disturbance \$3,206,013
Pytlik Zillig, Lisa	Dzenis, Yuris Optimal Stent Selection for the Femoropopliteal Artery \$1,028,824
Doht, Mitchell Extension/ Nebraska Local Technical Assistance Program	Engen-Wedin, Nancy Teaching, Learning and Teacher Education Indigenous Roots Teacher Education Program \$1,174,067ED
Nebraska Local Technical Assistance Program FY 2016 \$1,007,028	Erixson, John Nebraska State Forest Service Cooperative Forestry Program \$1,972,906
Dombrowski, Kirk Measuring Social Behavior via Dynamic Network Interaction \$1,224,423	Faller, Ronald Midwest Roadside Safety Facility/ Nebraska Transportation Center *Midwest States Pooled Fund Roadside Safety Program Year 29 \$1,235,000

Fischer, Jean	Nutrition and Health Sciences	Guo, Jiantao	Chemistry
Supplemental Nutrition Assis			of an Efficacious Live-Attenuated
\$1,771,292			natural Amino Acid-Mediated Suppression
	ent of Health and Human Services		of Blank Codon
Behrends, Donna	Nutrition and Health Sciences		NIH-NIAID
Sehi, Natalie	Nutrition and Health Sciences		Biological SciencesChemistry
Fantaina Jasanh	Natural Bassurasa	INIU, WEI	Chemistry
Fontaine, Joseph	Natural Resources	Hone Devid	Ohomioteu
Assessing the Effects of Habit		Hage, David	Chemistry
Public Access Programs o Dynamics and H			Studies of Functional ProteomicsNIH-NIDDK
\$1,989,522 Nebro		\$1,075,204	INIH-INIDDK
Damsky, David	Natural Resources	Harria Edward	Diaghamiatry
Foggia, Jennifer		Harris, Edward	Biochemistry
Reed, Tyler			nce of Low Molecular Weight Heparins
•			
Use and Satisfaction of Pub		Dodds, Elic	Chemistry
\$1,938,757		Harwood, David	Earth and Atmospheric Sciences/
	iska Game and Parks Commission	nai woou, baviu	Antarctic Drilling Program
Martin, Dustin	Natural Resources	SALSA Project H	Hot Water Drill Operations with
			Parts of UNL Roving Drill (Prime Mover)
Forbes, Cory	Natural Resources		NSF through Dartmouth College
DRK-12 High School Stud	lents Climate Literacy	McManis, James	
through Epistemology of		·	0 0
\$1,136,602	NSF	Hebert, Michael Special	Education and Communication Disorders
Oarsia Duiz Harnan	Dlant Dathalanu/	openia.	Nebraska Center for Research on
Garcia Ruiz, Hernan	Plant Pathology/		Children, Youth, Families and Schools
Recognition and Recruit	Nebraska Center for Virology		ıl Impairments Education in Writing
into RNA Silenc		\$1,399,158	ED-IES
\$1,312,105		Bovaird, James	Educational Psychology/
Ψ1,312,103	······		Nebraska Center for Research on
Gervais, Sarah	Psychology	Varial Natalia	Children, Youth, Families and Schools Nebraska Center for Research on
*Integrating Alcohol Myo		Kozioi, indialie	Children, Youth, Families and Schools
to Understand S		Savajano Mackenzie	Special Education and
\$1,097,073		Savarano, maskenzie	Communication Disorders/
DiLillo, David			Nebraska Center for Research on
Dodd, Michael	Psychology		Children, Youth, Families and Schools
Fritz, Matthew	Educational Psychology		
		Hein, Gary	Doctor of Plant Health Program
Grassini, Patricio	Agronomy and Horticulture	A Predictive Mod	del to Increase Adoption of IPM
*Developing Solutions for			s Disease Complex in Wheat
in Smallholder Oil Palm P			USDA-AFRI
\$4,028,819 Nor	wegian Ministry of Foreign Affairs		Panhandle Research and Extension Center
			Entomology
		vvegulo, Stephen	Plant Pathology
		Zygieibaum, Arthur	Natural Resources

Helikar, Tomas	Biochemistry	Johnson, Scott	
*Innovating Life Sciences Education	l		cess Research, Development and
through Computational Modeling and Simul \$1,896,570			lanufacturing of 5P12 RANTESMintaka Foundation for Medical Research
Dauer, Joseph			Biological Process Development Facility
Smith, Wendy		bucillioiz, wallace	Biological Frocess Development racinty
	puter Education	Khalimonchuk, Oleh	Biochemistry/
	'	Kilalillollolluk, Olcii	Nebraska Center for Redox Biology
A Predictive Multi-scale Model of the Immune	System:	*Mitoc	chondrial Fidelity and Homeostasis
An Integrated Resource for Interdisciplinary Ap	plications		NIH-NIGMS
\$1,780,567	NIH-NIGMS	\$1,739,410	INII-INIGINIS
		Mechanisms of N	Mitochondrial Quality Control and Protection
An Innovative Computational Modeling Inter			NIH-NIGMS
to Facilitate Learning of Biology Using			
Simulation and Dynamical Systems Approa \$2,321,012		Knoche, Lisa	Nebraska Center for Research on
Brassil, ChadBic			Children, Youth, Families and Schools
Dauer, Joseph		Gettina Ready	0-3 (GR03): Supporting the Development of
Harris, Steven			lers through an Integrated Parent-Teacher
ridinio, oteven	ranc rathology		Relationship-Based Approach
Houston, Adam Earth and Atmos	nharia Caianaga	\$1,998,928	DHHS-ACF
RII Track-2 FEC: Unmanned Aircraft Syst		Hawley, Leslie	Nebraska Center for Research on
for Atmospheric Physics	em		Children, Youth, Families and Schools
\$1,454,757NSF through Oklahoma	State University	Marvin, Christine	Special Education and
Detweiler, CarrickComputer Science			Communication Disorders/
Pytlik Zillig, Lisa Pub			Nebraska Center for Research on
Van Den Broeke, Matthew Earth and Atmo		Daikaa Halan	Children, Youth, Families and SchoolsChild, Youth and Family Studies/
		Raikes, Heien	Nebraska Center for Research on
Irmak, Suat Biological Syst	ems Engineering		Children, Youth, Families and Schools
Measurement of Growing Season Actual (Sheridan Susan	Nebraska Center for Research on
Evapotranspiration and Crop Coefficients, and		onoridan, ododn	Children, Youth, Families and Schools
Season Evaporative Losses for Key Vegetation	Surfaces		, , , , , , , , , , , , , , , , , , , ,
in the Central Platte Natural Resources Di		Kravchenko, Ilya	Physics and Astronomy
\$1,409,675 Ce	ntral Platte NRD	Particle Physics R	Research with the CMS Experiment at the LHC
			NSF
Jacobson, Beth	Student Affairs		Physics and Astronomy
UNL Educational Talent Search			Physics and Astronomy
\$2,322,665	ED		
Johnson Matthau	Dovobology/		
Johnson, Matthew Center for Brain, Biolo	Psychology/		
RII Track-2 FEC: Neural Networks Underlying the	letagration		
KII Irack-2 FEC: Neural Networks Underlying the	integration		

Center for Brain, Biology and Behavior

	Midwest Roadside Safety Facility -1: MASH 2016 Safety Facility	Lu, Yongfeng *3D-Printing	Electrical and Computer Engineering of Diamond-Composite Structures
\$3,228,715	ons - Phase I System C1 and C3 DOT-NYDOT through Nebraska Department of Transportation		Selective Laser Semi-MeltingDoD-MDA
Faller, Ronald	Midwest Roadside Safety FacilityMidwest Roadside Safety FacilityMidwest Roadside Safety Facility	and Cracks on	aser System and Method to Remove Pits Sensitized Surfaces of Aluminum Alloys DoD-ONR
Steelman, Joshua	Civil EngineeringCivil EngineeringMidwest Roadside Safety Facility	Lubben, Bradley North Centra	Agricultural Economics I Risk Management Education Center
Lei, Yuguo	Chemical and Biomolecular Engineering	\$1,082,736	USDA-NIFA
for Precision (e Conical Tube Device CAR-T Cells Manufacturing	MacDonald, James Enhancing Ani	Animal Science mal Protein through Crops and Cattle
Viljoen, Hendrik Xu, Zheng		\$1,000,000	Foundation for Food and Agriculture Research
	Psychology chavior and Postpartum DepressionNIH-NIMH	Erickson, Galen Okalebo, Jane Parsons, Jay Redfearn, Daren	
Li, Qingsheng	Biological Sciences/ Nebraska Center for Virology	Suyker, Andy	Natural Resources
	Broadly Neutralizing Antibodies ear HIV-1 Reservoir	Mahmood, Rezaul High F	Natural Resources 'lains Regional Climate Center
	IH-NIAID through University of Maryland	\$2,804,989	
Li, Xu Mitigating the Rick of Antib	Civil Engineering iotic Resistance at Critical Control Points		Natural Resources
in the Beef Cattle \$1,200,000 Bartelt-Hunt, Shannon Erickson, Galen Schmidt, Amy Anim	Manure Management Systems	Discovering the Mole Histories of X-Linke \$1,298,165	Biological Sciences ecial Role of Sex Chromosomes in Speciation: ecular Identities, Functions, and Evolutionary d Hybrid Male Sterility Genes in <i>Drosophila</i> NIH-NIGMS
Lodl, Kathleen	Extension	Mendoza-Gorham, Joan	Student Affairs Lincoln Upward Bound
Child Care and Youth Tra	ining and Technical Assistance ProjectUSDA-NIFA	\$1,511,785	ED
			Bound Math/Science ProgramED
		Ψ1,011,700	

\$1,387,788	Child, Youth and Family Studies plications of Early Childhood SleepNIH-NICHD through Indiana UniversityPsychologyEducational Psychology	Learning Environments	Nebraska Center for Research on Children, Youth, Families and Schools cy of INSIGHTS for Promoting Positive and Academic Achievement in Nebraska: A Replication Study
Napolitano, Scott School Psycholo Mild Tro \$1,191,884	Educational Psychology/ Center for Brain, Biology and Behavior/ Nebraska Center for Research on Children, Youth, Families and Schools ogy Specialization in Concussion/ lumatic Brain Injury (mTBI)EDCenter for Brain, Biology and Behavior/ Nebraska Center for Research on	\$3,299,957	Replication Study
Nalasa Timatha	Children, Youth, Families and Schools	Olson, Kristin Reducing Error i	Sociology/Gallup Research Center n Computer Survey Data Collection
\$2,443,777	Psychology/ Center for Brain, Biology and Behavior I and Adolescent Weight TrajectoriesNIH-NIDDK ology/Center for Brain, Biology and BehaviorResearch and Economic Development/	\$3,484,525	
Role of Executive (Center for Brain, Biology and Behavior Control in Adolescent Substance Use	Enhance Gene De	Biological Systems Engineering and Telecommunications Modeling to elivery for Stem Cell Therapies (DP2)
and \$1,009,204	Co-occurring ProblemsNIH-NIDA through	\$2,197,500	NIH-NIBIB
	Boys Town National Research InstitutePsychology/ Center for Brain, Biology and BehaviorPsychology/ Center for Brain, Biology and Behavior	\$1,324,787	Natural Resources Sportfish Ecology and ManagementNebraska Game and Parks CommissionNatural Resources
	Psychology/ Center for Brain, Biology and Behavior Il Brain Networks Mediating Differences in Valence Bias	for En \$1,990,279	Academic Affairs esearch-Based Instructional Strategies hancing STEM EducationNSFEarth and Atmospheric Studies
	NIH-NIMH	Couch, Brian	Biological Sciences Biological Sciences Entomology Teaching, Learning and Teacher Education Center for Science, Mathematics and Computer Education/Physics and Astronomy Educational Psychology Chemistry

Pope, Kevin	Natural Resources	Rilett, Laurence	Civil Engineering/
*Human Dimensions of Nebras \$1,747,225		Traffic Calmina	Nebraska Transportation Center Belements for Entry Control
Nebraska Ga	me and Parks Commission	Facility Threa	nt Delay and Containment
Chizinski, Christopher	Natural Resources		Offutt Air Force Base-STRATCOM through National Strategic Research Institute
Human Dimensions of Nebras		Faller, Ronald	Civil Engineering/
\$2,165,236Nebraska Ga Chizinski, Christopher		Reid John	Nebraska Transportation Center Mechanical & Materials Engineering/
			Nebraska Transportation Center
Rajca, Andrzej	Chemistry	Transportation Infrastruc	cture - Visualizations & ITS Laboratory
New Nitroxide Spin Labels for Measurements in Biological		\$3,171,651	
\$1,745,253	NIH-NIGMS		Nebraska Department of Transportation neering/Midwest Roadside Safety Facility
Rajca, Suchada	Chemistry	•	
Synthesis of Metal-Free N			niversity of Texas Pan AmericanDOT-FHWA through
Resonance Imaging Control \$1,208,299	ist Agents NIH-NIBIB		University of Texas-Pan-American
Rajca, Suchada	Chemistry	Khattak, Aemal	Civil Engineering
B 01111		Savaiano, Mackenzie	Special Education and
Ray, Chittaranjan Civil	Engineering/Water Center/ ty Water for Food Institute		Communication Disorders
Securing Water for and from Agricult	ure through Effective	Mid-Plains Professional Up \$1,082,718	grade Partnership - Sensory Disabilities
Community and Stakeholder \$1,040,893		Thomas, AnneSpecial	Education and Communication Disorders
Per	nnsylvania State University	Ocatt Otamban	Computer Ociones and Engineering
Burbach, Mark	Natural Resources/	Scott, Stephen *Operationalizing Cybe	Computer Science and Engineering er Situational Awareness Research:
Fulginiti, Lilyan		Capa	ability Exploration
Robert B. Daugher	ty Water for Food Institute	\$1,525,215 DoD-C	Offutt Air Force Base-STRATCOM through National Strategic Research Institute
Groskopf, Jessica Panhandle Resec Robert B. Daugher	ty Water for Food Institute		Information Services
Perrin, Richard	Agricultural Economics/	Magilton, Elsbeth	Computer Science and Engineering
Robert B. Daugher Rudnick, Daran West Central Resec	ty Water for Food Institute	variyani, vinoa	Computer science and Engineering
	ty Water for Food Institute	Sellmyer, David	Physics and Astronomy/Nebraska
Reddy, N.R. Jayagopala	Veterinary Medicine and	Nebraska Na	Center for Materials and Nanoscience anoscale Facility of NNCI
neauy, n.n. Jayagupala	Biomedical Sciences	\$3,494,096	NSF
Autoimmunity in the Mediation of Inf		Binek, Christian	Physics and Astronomy/Nebraska Center for Materials and Nanoscience
\$1,365,031		Lai, Rebecca	Chemistry/Nebraska Center for
Steffen, DavidVeterinary Medicin		Liou Sv-Hwana	Materials and NanosciencePhysics and Astronomy/Nebraska
			Center for Materials and Nanoscience
			Mechanical & Materials Engineering/ ka Center for Materials and Nanoscience
		ivebiasi	Ra Center for Muterials and Manuscience

	ly Structured Composite Magnets	Males, Lorraine	Teaching, Learning and Teacher EducationTeaching, Learning and Teacher Education
		Searls, Mindi	Center for Science, Mathematics
Sheridan, Susan	Educational Psychology/		and Computer Education/
onoridani, ododni	Nebraska Center for Research on		Earth and Atmospheric Sciences
	Children, Youth, Families and Schools/	Thomas, Amanda	Teaching, Learning and Teacher Education
		Thomas, Julie	Center for Science, Mathematics
	Buffett Early Childhood Institute	,	and Computer Education/
\$4,599,878	texts in Rural and Urban Nebraska		Teaching, Learning and Teacher Education
Bovaird, James	Educational Psychology/ Nebraska Center for Research on	Soh, Leen-Kiat	Center for Science, Mathematics
	Children, Youth, Families and Schools/		and Computer Education/
	Buffett Early Childhood Institute		Computer Science and Engineering
DeKraai Mark	Public Policy Center/	*Adapt, Impler	ment and Research at Nebraska:
Bott daily War K	Nebraska Center for Research on		tation Study of a Researcher-Practitioner
	Children, Youth, Families and Schools/	Partnership for	K-8 Computer Science Education
	Buffett Early Childhood Institute		NSF
Iruka Thompson Theoma	Buffett Early Childhood Institute/		Nebraska Center for Research on
n aka mompoon, meoma .	Nebraska Center for Research on	ragent, Swell	Children, Youth, Families and Schools
	Children, Youth, Families and Schools	Smith Wondy	Center for Science, Mathematics
K Ii		Sillitii, Welldy	and Computer Education
Knocne, Lisa	Nebraska Center for Research on	Trainin Con	Teaching, Learning and Teacher Education
	Children, Youth, Families and Schools/ Buffett Early Childhood Institute		
		Speck, Kate	Public Policy Center
A Randomized Irial of C	Conjoint Behavioral Consultation (CBC)	*Nebraska You	th Suicide Prevention 2019-2024
with Latino S	tudents: A Replication Study	\$3,610,121	DHHS-SAMHSA
\$3,499,987	ED-IES	Bulling, Denise	Public Policy Center
	Educational Psychology	Dekraai, Mark	Public Policy Center
Wheeler, Lorey	Nebraska Center for Research on		•
	Children, Youth, Families and Schools	Stains, Clifford	Chemistry
Early L	earning Network Lead	Cnemical A	Approaches for Interrogating
			ental Biomedical Processes
Knoche, Lisa	Nebraska Center for Research on	\$1,/35,143	NIH-NIGMS
	Children, Youth, Families and Schools		
		Starace, Anthony	Physics and Astronomy
Smith, Wendy	Mathematics/Center for Science.	Imaging and	Controlling Ultrafast Dynamics
ommi, wenuy	Mathematics and Computer Education	of Atoms, M	Iolecules, and Nanostructures
N. 1			NSF-EPSCoR
	ka Partnership TEAMS		Physics and Astronomy
(Teaching to Enhance Ac	hievement in Mathematics and Science)		Physics and Astronomy
(Teaching to Enhance Ac \$1,068,400 ED th	rough Nebraska Department of Education	Centurion, Martin	Physics and Astronomy
(Teaching to Enhance Ac \$1,068,400 ED th	rough Nebraska Department of EducationCenter for Science, Mathematics	Centurion, Martin Fabrikant, Ilya	Physics and Astronomy
(Teaching to Enhance Ac \$1,068,400 ED th	rough Nebraska Department of Education Center for Science, Mathematics and Computer Education/	Centurion, Martin Fabrikant, Ilya Fuchs, Matthias	Physics and AstronomyPhysics and Astronomy
(Teaching to Enhance Ac \$1,068,400 ED th Arthurs, Leilani	rough Nebraska Department of EducationCenter for Science, Mathematics and Computer Education/ Earth and Atmospheric Sciences	Centurion, Martin Fabrikant, Ilya Fuchs, Matthias	Physics and Astronomy Physics and Astronomy Physics and Astronomy Physics and Astronomy
(Teaching to Enhance Ac \$1,068,400 ED th Arthurs, Leilani	rough Nebraska Department of EducationCenter for Science, Mathematics and Computer Education/ Earth and Atmospheric Sciences .Teaching, Learning and Teacher Education	Centurion, Martin Fabrikant, Ilya Fuchs, Matthias Gay, Timothy Lu, Yongfeng	Physics and Astronomy Physics and Astronomy Physics and Astronomy Physics and Astronomy Electrical and Computer Engineering
(Teaching to Enhance Ac \$1,068,400 ED th Arthurs, Leilani	rough Nebraska Department of EducationCenter for Science, Mathematics and Computer Education/ Earth and Atmospheric Sciences	Centurion, Martin Fabrikant, Ilya Fuchs, Matthias Gay, Timothy Lu, Yongfeng Schubert, Eva	Physics and Astronomy Physics and Astronomy Physics and Astronomy Physics and Astronomy Electrical and Computer Engineering Electrical and Computer Engineering
(Teaching to Enhance Ac \$1,068,400 ED th Arthurs, Leilani	arough Nebraska Department of Education	Centurion, Martin Fabrikant, Ilya Fuchs, Matthias Gay, Timothy Lu, Yongfeng Schubert, Eva Shadwick, Bradley	Physics and Astronomy Physics and Astronomy Physics and Astronomy Physics and Astronomy Electrical and Computer Engineering Physics and Astronomy
(Teaching to Enhance Ac \$1,068,400 ED th Arthurs, Leilani	rough Nebraska Department of EducationCenter for Science, Mathematics and Computer Education/ Earth and Atmospheric Sciences .Teaching, Learning and Teacher EducationCenter for Science, Mathematics	Centurion, Martin Fabrikant, Ilya Fuchs, Matthias Gay, Timothy Lu, Yongfeng Schubert, Eva Shadwick, Bradley	Physics and Astronomy Physics and Astronomy Physics and Astronomy Physics and Astronomy Electrical and Computer Engineering Electrical and Computer Engineering

	ng, Learning and Teacher Education Center for Science, Mathematics and Computer Education/ Earth and Atmospheric Sciences
Thomas, Julie	ng, Learning and Teacher Education Center for Science, Mathematics and Computer Education/ ng, Learning and Teacher Education
Soh, Leen-Kiat	Center for Science, Mathematics and Computer Education/ Computer Science and Engineering
A Statewide Implementation St Partnership for K-8 Con	I Research at Nebraska: udy of a Researcher-Practitioner nputer Science EducationNSF
Nugent, Gwen	. Nebraska Center for Research on hildren, Youth, Families and Schools
	Center for Science, Mathematics and Computer Education
•	ng, Learning and Teacher Education
Speck, Kate	Public Policy Center
\$3,610,121	le Prevention 2019-2024
\$3,610,121	DHHS-SAMHSA Public Policy Center
\$3,610,121	DHHS-SAMHSA Public Policy Center Public Policy Center Chemistry nes for Interrogating medical Processes

Uiterwaal, Cornelis	Takacs, James Catalytic Asymmetric Hydroboration: Uncapping the Potential with Two-point Binding Substrates \$1,232,002
Storz, Jay RII Track-2 FEC: Using Natural Variation to Educate, Innovate, and Lead (UNVEIL): A Collaborative Research Network to Advance Genome-to-Phenome Connections in the Wild \$1,856,000	Terry, Benjamin En-route Care for Acute Respiratory Distress Syndrome (ARDS) Maturation \$1,259,336 DoD-Offutt Air Force Base-STRATCOM through National Strategic Research Institute Thomas, Amanda Teaching, Learning and Teacher Education/ Nebraska Center for Research on
Mutational Pleiotropy, Epistasis, and the Adaptive Evolution of Hemoglobin Function \$1,437,536	Children, Youth, Families and Schools Nebraska STEM: Supporting Elementary Rural Teacher Leadership \$1,499,493
Suffer, Peter Electrical and Computer Engineering Exploring and Embracing Heterogeneity in Atomically Thin Energy Materials \$1,238,000	Nebraska Center for Research on Children, Youth, Families and Schools Homp, Michelle
Svoboda, Mark Providing Drought Information Services for the Nation: The National Drought Mitigation Center	Children, Youth, Families and Schools Nugent, Gwen
\$2,443,222	Children, Youth, Families and Schools Smith, Wendy
Development of the MENA Regional Drought Management System \$1,504,240USAID through International Center for Biosaline Agriculture	Nebraska Center for Research on Children, Youth, Families and Schools Thomas, Julie
Bathke, Deborah Natural Resources Hayes, Michael Natural Resources Knutson, Cody Natural Resources Tadesse, Tsegaye Natural Resources	Children, Youth, Families and Schools Trainin, GuyTeaching, Learning and Teacher Education/ Nebraska Center for Research on Children, Youth, Families and Schools
Swanson, David Computer Science and Engineering Open Science Grid Consortium \$1,989,038 NSF through University of Wisconsin-Madison	Wei, Sally

Torkelson-Trout, Alexandra	Special Education and Communication Disorders/	International Consortium for Multil	Learning and Teacher Education ingual Excellence in Education
	ademy for Child and Family Wellbeing	\$2,739,661	Lograing and Togobor Education
	o a Better Tomorrow: racy in Transition-Age Youth	Johnson, Aaron	Learning and Teacher Education
with High Inci	idence Disabilities	Kiramba, Lydiah Teaching,	
	ED	, ,	ÿ
	Special Education and	Walters, Cory	Agricultural Economics
	Communication Disorders/	Northern Plains Regional Farr	n Business Management
	demy for Child and Family WellbeingSpecial Education and	and Benchmarking \$1,322,060	g Partnership
Lambert, Matthew	Communication Disorders/	\$1,322,060	USDA-NIFA
Aco	idemy for Child and Family Wellbeing	Banerjee, Simanu	Agricultural Economics
Umatadtas Davald	Dhysics and Astronomy	West, John	Nebraska Center for Virology
	Physics and Astronomy erNetUS	KSHV, HIV and the Kaposi's	Sarcoma Tumor Niche
	DOE	\$2,876,355	NIH-NCI
Ţ.,oco,oco		wood, Charles	Nebraska Center for Virology
	eractions of Electrons with		. res. acid content of the origin
	ly Relativistic Intensities	Whitbeck, Les	Sociology
	DoD-AFOSRPhysics and Astronomy	A RCT of a Family-Centered Ojibwe	Substance Abuse Prevention
Chen. Shouvuan	Physics and Astronomy	\$3,560,784	
Fuchs, Matthias	Physics and Astronomy	Crawford, Devan	Sociology
Shadwick, Bradley	Physics and Astronomy	Wiehe Metthew	Voterinery Medicine and
Starace, Anthony	Physics and Astronomy	Wiebe, Matthew	Veterinary Medicine and Biomedical Sciences
	oherent X-Ray Sources	Mechanism of the An	
\$1,994,997	DOE	BAF against Poxvirus ar	
Van Ettan James	Dient Dethology/	\$1,838,387	NIH-NIAID
Van Etten, James	Plant Pathology/ Nebraska Center for Virology	Williams, Robert Med	hanical & Materials Engineering
	EC: G2P in VOM:	Nebraska Industrial Asses	
	Analytical Framework for	\$1,439,589	
Genome to Phenome Conr	nections in Viruses of Microbes	Dvorak, Bruce	
	. NSF through University of Delaware	Gogos, George Med	hanical & Materials Engineering
DeLong, John	Biological Sciences/		
Dunigan David	Nebraska Center for Virology Plant Pathology/		
Dunigun, Duviu	Nebraska Center for Virology		
	3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3		

Wood, Charles

Biological Sciences/Biochemistry/ Nebraska Center for Virology

Nebraska Center for Virology
*Biomarkers for Dysbiosis-Related HIV-Associated Cognitive
Disorders among Persons Who Inject Drugs in Puerto Rico
\$3,029,162 NIH-NIDA
Chiou, Kathy Psychology/Nebraska Center for Virology
Dombrowski, Kirk Sociology/Nebraska Center for Virology
Fernando, SamodhaAnimal Science/Nebraska Center for Virology
Khan, Bilal Sociology/Nebraska Center for Virology
West, John Biochemistry/Nebraska Center for Virology
*Models of KHSV Transmission and Its Inhibition \$2,192,835 NIH-NCI
West, John Biochemistry/Nebraska Center for Virology
Zambia AIDS Malignancies Diagnosis and Pathogenesis Program
\$3,842,954 NIH-NCI
Angeletti, PeterBiological Sciences/
Nielenen len Centen fen Vinelen
West, JohnNebraska Center for Virology
The Impact of Cannabis on Inflammation
and HIV-1 Reservoirs in Zambia
\$3,745,393 NIH-NIDA
Li, Qingsheng Biological Sciences/
Nebraska Center for Virology
West, JohnNebraska Center for Virology
AIDS Malignancies Training and Research
International Program (AMTRIP)
\$1,482,515
ψ1, 1 02,313
Cancer Research International Training
and Intervention Consortium (CRITIC)
\$3,973,528 NIH-NCI
Angeletti, PeterBiological Sciences
Minhas, VeenuNebraska Center for Virology
West, JohnNebraska Center for Virology
Programs in HIV & AIDS Assoc Diseases/Malignancies
\$2,713,284 NIH-FIC
Yamamoto, Catherine Student Affairs
Student Support Services Program \$2,647,468

Yu, Bin

Biological Sciences/ Center for Plant Science Innovation

*Understand the Function of the MOS4-Associated Complex in MicroRNA Biogenesis \$1,570,405
in MicroRNA Biogenesis \$1,570,405NIH-NIGMS
\$1,570,405NIH-NIGMS
Zamplani Janea Mutritian and Health Caianage
Zennneni, ianns mittinni ann heann airendest
Nebraska Center for the Prevention of
Obesity Diseases through Dietary Molecules
Molecular Signatures of New Bioactive Compounds in Humans:
Cows Milk MicroRNAs
\$1,785,715
Adamec, Jiri Biochemistry/
Nebraska Center for the Prevention of
Obesity Diseases through Dietary Molecules
Cui, Juan Computer Science and Engineering/
Nebraska Center for the Prevention of
Obesity Diseases through Dietary Molecules
Zeng, Xiao Chemistry
RII Track-2 FEC: Low-Cost, Efficient Next-Generation Solar Cells
for the Coming Clean Energy Revolution
\$1,288,002 NSF through Brown University
Hong, Xia Physics and Astronomy

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

Active awards, July 1, 2018–June 30, 2019

^{*} Indicates new in 2018–2019

Treatment Access am \$412,763 Dombrowski, Kirk	Hurricane Maria on Opioid Agonist nong PWID in Rural Puerto Rico
Adamowicz, Michael	College of Agricultural Sciences and Natural Resources
\$698,382 Clarke, Jennifer Fernando, Samodha	ce Evidence in Forensic Investigation
	Physics and Astronomy/ a Center for Materials and Nanoscience
	namics of Phase Transitions
\$550,000 Binek, Christian	AntiferromagnetsNSFPhysics and AstronomyPhysics and Astronomy
	Electrical and Computer Engineering Critical Heat Exchanger Itional Space Station
\$350,000	
Chemistry during Femto \$961,830 Ianno, Natale	erstanding and Controlling Surface osecond Laser Surface Processing
	Plant Pathology/ Center for Plant Science Innovation nt of Blue Light in Plant ImmunityNSF

	Natural Resources Global Change, Vulnerability and Resilience: Management Options for an Uncertain Future DoD-SERDP irac Jr. Agronomy and Horticulture
Humai	rennifer Food Science and Technology and Complimentary in Vitro and in Vivo Models of the and Microbiome to Study Antibiotic-Mediated Disruption
Avalos, Geo	Analysis and Control Theory for Moving Boundary and Nonlinear Phenomena in Interactive Partial Differential Equations
	deli, PelinMathematics
Avramov, Li \$458,919	Cohomology over Commutative Rings: Structure and Applications NSF
\$300,000 . Erickson, G	nn Flux from Great Plains Agroecosystems Associated with the ARS LTAR Network
\$300,000 Erickson, G Suyker, And Baenziger, Dev	on Flux from Great Plains Agroecosystems Associated with the ARS LTAR Network
\$300,000 Erickson, G Suyker, And Baenziger, Dev \$975,000 Balkir, Sina	n Flux from Great Plains Agroecosystems Associated with the ARS LTAR Network
\$300,000 Erickson, G Suyker, And Baenziger, Dev \$975,000 Balkir, Sina \$557,135 Bauer, Mar	n Flux from Great Plains Agroecosystems Associated with the ARS LTAR Network

Banerjee,	, Simanti The Impacts of Conservation Auction Don's Auction Performance and Community Vervidence from Lab and Artefactual Expe	Velfare:
\$498,641	1	
\$358,835 Farritor, S	radley 4-H MAKER: Nebraska Innovative Maker Co-L 5	NSF sterials Engineering
Keshwani Krehbiel, Nelson, C Nugent G	Nebraska Wearable Technologie i, Jennifer Biological S Michelle 4-H Carl Mechanical & Mc Gwen Nebraska Cen Children, Youth, Fo Yendy Textiles, Merchandising of	
		· ·
Gend	Raul Veterinary Medicine and Bi ome Wide Analysis of <i>M. Paratuberculosis</i>	omedical Sciences Pathogenesis
Gend \$499,981 Bartelt-Hi	ome Wide Analysis of <i>M. Paratuberculosis</i> unt, Shannon *Influence of Agrochemical Mixtur on Treatment Wetland Ecosystems Se	omedical Sciences Pathogenesis USDA-NIFA Civil Engineering es rvices
Gend \$499,981 Bartelt-Hi \$499,999 Messer, T	ome Wide Analysis of <i>M. Paratuberculosis</i>	omedical Sciences Pathogenesis USDA-NIFA Civil Engineering es rvices USDA-NIFA ystems Engineering

WSC Category 1: Influence of Climate and Agricultural Clustering on Groundwater Contamination by Trace Organics \$599,663
Bashford, Gregory REU Site: Undergraduate Research Opportunities in Biomedical Devices at the University of Nebraska-Lincoln \$364,006
Neurological Consequences of Emboli Burden during Cardiopulmonary Bypass \$278,242Gerber Foundation
Batelaan, Herman Physics and Astronomy
Coherent Electron Control \$475,161
Becker, Donald Biochemistry/ Nebraska Center for Redox Biology/ Center for Plant Science Innovation
Nebraska Center for Redox Biology/ Center for Plant Science Innovation REU Site: Training in Redox Biology
Nebraska Center for Redox Biology/ Center for Plant Science Innovation
Nebraska Center for Redox Biology/ Center for Plant Science Innovation REU Site: Training in Redox Biology \$298,186
REU Site: Training in Redox Biology \$298,186
Nebraska Center for Redox Biology/ Center for Plant Science Innovation REU Site: Training in Redox Biology \$298,186
Nebraska Center for Redox Biology/ Center for Plant Science Innovation REU Site: Training in Redox Biology \$298,186
Nebraska Center for Redox Biology/ Center for Plant Science Innovation REU Site: Training in Redox Biology \$298,186
Nebraska Center for Redox Biology/ Center for Plant Science Innovation REU Site: Training in Redox Biology \$298,186

Wilson, Mark Biochemistry/Nebraska Cent		Bielenberg, Robert	Midwest Roadside Safety Facility
	nt Science Innovation		ed MASH TL-4 Kansas Corral Rail
Zhang, Limei	Biochemistry/	(Kansas, Iowa, Sou	ıth Dakota and Virginia)
	t Science Innovation/	\$401,400	DŎT-KŚ DOT through
Nebraska Cent	er for Redox Biology/	Ne	braska Department of Transportation
		Faller, Ronald	Midwest Roadside Safety Facility
Coordination of Functions by Proline Meta		Holloway, James	Midwest Roadside Safety Facility
\$556,436NIH-NIGMS through University of	of Missouri-Columbia	Lechtenberg, Karla	Midwest Roadside Safety Facility
			Midwest Roadside Safety Facility
Belashchenko, Kirill Ph	ysics and Astronomy	, , , , , , , , , , , , , , , , , , ,	,
First-Principles Studies of Relativ		Billesbach, David	Biological Systems Engineering
Spin Interactions and Torques			urbon Project
\$258,646	NSF		
Ψ230,040		\$449,800 Universi	ty of California-Berkeley National Lab
Belli, Robert Psychology/Ga	llup Research Center	Binek, Christian Phy	sics and Astronomy/Nebraska Center
Central Plains Census Research Date		Dilick, Olifforiali I ily	for Materials and Nanoscience
\$300,000		M	
Anderson, John			and Spinorbitronics in
Thompson, Eric Bureau		lopological Heterost	ructures and Superlattices
mompson, Ene	or Business Research	\$516,500	DoD-ONR through
Donoon John	Notural Decourage		University of California, Los Angeles
Benson, John	Natural Resources		
Reproductive Success, Survival, and Ca		Black, Paul	Biochemistry
Mortality of Bighorn Sheep in Neb			High Value Bioproducts
\$280,740Nebraska Game ar	nd Parks Commission	\$734,608Nebraska 🛭	Department of Economic Development
			through Vestal W2O
Berkowitz, David	Chemistry	Allen, James	Biochemistry
*Medical Countermeasure Drug Discovery a	nd Development		
\$321,028 DoD-Offutt Air Force Base	-STRATCOM through	Blanco, Humberto	Agronomy and Horticulture
National Strates	gic Research Institute		em Services with Cover Crops
Dussault, Patrick	Chemistry		Nebraska Environmental Trust
Helikar, Tomas	Biochemistry		Agronomy and Horticulture
Powers, Robert			Biological Systems Engineering
		3434, 1441	Diological Systems Engineering
Medical Countermeasure Drug Discovery ar		Assessing Innovative Strateg	ies to Maximize Cover Crop Yields
\$904,977 DoD-Offutt Air Force Base			Precipitation Gradient
	gic Research Institute		USDA-NIFA
Helikar, Tomas	Biochemistry		andle Research and Extension Center
Powers, Robert	Chemistry		Agronomy and Horticulture
	-	Francis, Charles	Agronomy and Horticulture
New Approaches to Catalyst Screening and	d Development	Koehler-Cole. Katia	Agronomy and Horticulture
\$470,000			Agricultural Economics
			Agronomy and Horticulture
Bianchini Huebner, Andreia Food Sci	ence and Technology		entral Research and Extension Center
Alliance for Food Security through Rec			Agronomy and Horticulture
Postharvest Loss and Food Wa		9)	and the doctor
\$930,007 USAID through Ka			
#330,007	iisus state Offiversity		

Blum, Paul	Biological Sciences	Bulling, Denise	Public Policy Center
	fication in Archaea and Gene Expression		ng Community Threat on and Risk Assessment
	NSF		DOC-NOAA
Van Cott, Kevin C	hemical and Biomolecular Engineering	Abdel-Monem, Tarik	Public Policy Center Natural Resources
	relopment of Bioenergy Systems	Bernadt, Tonya	Natural Resources
	NSF	Puchs, Brian	Natural Resources
Cerutti, Heriberto	Biological Sciences/ Center for Plant Science Innovation	Shank, Nancy	Public Policy Center Public Policy Center
		Stiles, Crystal	Natural Resources
Bobaru, Florin Stress Corrosion Cr	Mechanical & Materials Engineering acking: The Importance of		Natural Resources
Damage Evolution in th	e Layer Affected by Corrosion		and Security Planning Capacity
	DoD-ONR		braska Military Department-NEMA
	. Mechanical & Materials Engineering		Psychology/Public Policy Center Public Policy Center
	ional Psychology/Nebraska Center for	Cahoon, Edgar	Biochemistry/
	Children, Youth, Families and Schools	1	Center for Plant Science Innovation
	TART-Play Program for		tabolic and Regulatory Network
	euromotor Disorders		NSF
	ED-IES through Duquesne University	Markham, Jonathan	Biochemistry/
	cional Psychology/Nebraska Center for		Center for Plant Science Innovation
Research or	n Children, Youth, Families and Schools	Saha, Rajib	ical and Biomolecular Engineering/
Durane Carre	Potential Com-		Center for Plant Science Innovation
Brewer, Gary	Entomology		
A Multi-tactic Push-Pull Str	rategy for Controlling Stable Flies		polic Bottlenecks for
	in Nebraska and Florida		oduction in Crop Plants
	USDA-NIFA	\$490,000	USDA-NIFA
	Central Research and Extension Center		
	Statistics		eat Plains to the Semi-Arid West:
Stockton, Matt West C	Central Research and Extension Center	Improved Germplasm	
		\$373,976DOE	through Colorado State University
	of Farrowing Crate Design and	Carroll, John	Natural Resources
Mothering Phenotype o	on Pre-Weaning Piglet Survival	Wildlife Management o	
	National Pork Board		DOI-FWS through
	Biological Systems Engineering		raska Game and Parks Commission
Shi, Yeyin	Biological Systems Engineering		
Stowell, Rick	Biological Systems Engineering	Centurion, Martin	Physics and Astronomy
			Complex Isolated Molecules
	ological Process Development Facility		NSF
	Recombinant Vaccine	ψ3/ 3,1/ 3	
	Trial and Toxicity Testing		
	. National Strategic Research Institute		
Johnson, ScottB	iological Process Development Facility		

Cerutti, Heriberto	Biological Sciences/	Ciftci, Ozan	Food Science and Technology
	Center for Plant Science Innovation	Development of an I	Integrated Green Process to Obtain
Developing Genetic and	Genomics Tools for <i>Tetraselmis</i> sp.		and Bioavailable Lycopene Product
	Gordon and Betty Moore Foundation	from Tomato	Processing Industry Waste
Clemente, Thomas	Agronomy and Horticulture/	\$489,781	USDA-NIFA
	Center for Plant Science Innovation	Demirel, Yasar	Chemical and Biomolecular Engineering
Mechanisms of Small RN	IA-Mediated Translation Repression	Ciobanu, Daniel	Animal Science
	hlamydomonas '		etic Role in PCV2 and PRRSV Susceptibility
•			Statistics
Cheung, Chin Li (Barry)	Chemistry	Vu Hien	Nebraska Center for Virology
	istry of Metal Oxides for	vu, 1110p	virology
	Oxygen Species Generation	Clamanta Thomas	Agranamy and Harticultura
	NSF	Clemente, Thomas	Agronomy and Horticulture/
φ-00,200			Center for Plant Science Innovation/
Obizinaki Obristanbar	Natural Decourage		Center for Biotechnology
Chizinski, Christopher	Natural Resources		ve Transient Delivery of Reagents into
	n of the Nebraska Outdoor Enthusiast		IV Secretion System of A. tumefaciens
	DOI-FWS through Nebraska Game and Parks Commission	\$299,006	NSF
		N IT I I	, C.I. d. M., H. D. H. C
	Natural ResourcesNatural Resources		to Solve the Water Use Problem of
rope, keviii	Natural Resources		penergy and Bioproduct Feedstocks
a			DOE through University of Illinois at Urbana-Champaign
Choueiry, Berthe			University of Illinois at Orbana-Champaign
	e Power of Constraint Propagation	A Passuras	for Functional Genomics to
	y Levels and Synthesizing Constraints		pean Genetics and Breeding
\$486,000		\$ \$25,378	NSF through University of Georgia
		\$033,370	Not till ough onliversity of deorgia
Christensen, Alan	Biological Sciences	Cornelius Christopher	Chemical and Diamologular Engineering
	Plant Mitochondrial DNA Repair	Cornelius, Christopher	
\$660,788	NSF		Multicomponent Inorganic Functional
			ibers Using Sol-Gel Processing
Chung, Soonkyu	Nutrition and Health Sciences/	\$297,543	NSF
	Nebraska Center for the Prevention of		
Obe	sity Diseases through Dietary Molecules		
	Obesity and Metainflammation by		
	and its Microbiota-derived Metabolites,		
	1111-1		

Nebraska Center for the Prevention of Obesity Diseases through Dietary Molecules

Couch, Brian	Biological Sciences/ Nebraska Center for Virology	DeLong, John Underst	Biological Sciences anding the Consequences of
Mappina Change in Hig	gher Education Social Networks		lution in Ecological Communities
and S	TEM Reforms		James S. McDonnell Foundation
	NSF		
		Detweiler, Carrick	Computer Science and Engineering
Cultivating Active Lear	ners by Enabling Instructors to		ng VTOL Sensor Emplacement
Monitor and Enhance S	tudent Buy-in and Utilization of		D-Offutt Air Force Base-STRATCOM through
	Instructional Strategies		National Strategic Research Institute
	NSF	Bradley, Justin	Computer Science and Engineering
Brassil, Chad	Biological Sciences	Duncan, Brittany	Computer Science and Engineering
	Institution on Faculty Teaching	COTS Autonomo	us Tracking and Indicating Prototype
	ent Achievement		D-Offutt Air Force Base-STRATCOM through
\$393,068	NSF through University of Colorado		National Strategic Research Institute
		Bradley, Justin	Computer Science and Engineering
	etwork in Functional Genomics		Computer Science and Engineering
	NIH-NIGMS through UNMC		,
Wood, Charles	Biological Sciences/Biochemistry/	Detection of Nucl	ear Threats Using Deployable Sensors
	Nebraska Center for Virology	\$469,293	D-Offutt Air Force Base-STRATCOM through
			National Strategic Research Institute
Cress Nipper, Cynthia	Special Education and		Computer Science and Engineering
	Communication Disorders	Duncan, Brittany	Computer Science and Engineering
	f Communication Risk: The CISS		
\$531,270 NIH-NIDO	CD through Brookes Publishing Co., Inc.		At the Water's Edge:
			otimization of Robotic Sensing Systems
Cui. Bai	Mechanical & Materials Engineering		USDA-NIFA
Understanding the Mechar	nisms of the Pulsed Electric Current	Bradley, Justin	Computer Science and Engineering
	e-Dispersion-Strengthened Alloys	Dilillo Dould	Davahalanu
\$307,825	NSF	DiLillo, David	Psychology
	a Center for Energy Sciences Research		omote Pro-social Bystander Behaviors
Zhou, Qin	. Mechanical & Materials Engineering		NIH-NICHD
			Psychology
	ening Structural Ceramics by	Gervais, Sarah	Psychology
	red Laser Shock Peening		
\$348,336	NSF	Dodds, Eric	Chemistry
Lu, Yongteng	. Electrical and Computer Engineering		nalysis of Metal Cationized Carbohydrates
Nastası, Michael Nebrask	a Center for Energy Sciences Research	\$360,000	NSF
Dauer, Jenny	Natural Resources		
	oout Socioscientific Issues in		
	condary Learning Environments		
\$303.419	NISE		

\$303,419......NSF

Dowben, Peter	Physics and Astronomy/	Dussault, Patrick	Chemistry
Controlling Structural, Elec	a Center for Materials and Nanoscience ctronic, and Energy Flow Dynamics	A New Paradigm fo	or Ether Synthesis NSF
	hrough Tailored Nanostructures University of Central Florida	Dvorak, Bruce	Civil Engineering
	ng at Molecular Film Interfaces NSF	Water Innovation Sustainable Small S \$338,160 EPA through Uni	Systems (WINSSS) versity of Massachusetts-Amherst
Novel Class of Materials	lymers: Fundamental Studies of a for Enhanced Radiation Detection	Lai, Rebecca	
	DTRA through University of North Texas	Bulk Nanostruct	
	Computer Science and Engineering ate Research Opportunities in Foundations and Applications	for Navy Ap \$702,271	
\$360,649 Bradley, Justin		Biomimetic Nanostr Based on Syntho \$300,000	etic Spider Silk
Duncan, Daniel Biote	Nebraska Innovation Campus	GOALI: Nanomanufacturing of Ult Carbon Nanofiber:	trahigh-Performance Continuous
	DOC-ED	\$299,947 Papkov, Dimitry M	NSF echanical & Materials Engineering
*Parental Involvement in Outcomes for High School and those at Risk of Er \$599,680	Special Education and Communication Disorders/ Academy on Child and Family Wellbeing Education: Comparing Academic Students in the General Population motional and Behavioral Issues	Elkins, Lynne Testing Extrusion Tec Lithosphere-Asthenosphere Central Highlands Diffuse I \$413,437 Burberry, Cara	e Coupling Models for the gneous Province, VietnamNSF
. A	Special Education and Communication Disorders/ cademy on Child and Family Wellbeing	Assessing Segment-scale C Slow-spreading Ri	dge Morphology
Lambert, Matthew	Special Education and Communication Disorders/	\$259,150	
Torkelson-Trout, Alexandra A Randomized Clinical Trial	Academy on Child and Family Wellbeing	Erickson, Galen Evaluation of Algal Biomas \$284,091Veterinary Loy, J. DustinVeterinary Watson, Andrea	Evonik Industries Medicine and Biomedical Sciences Medicine and Biomedical Sciences
\$803,256	Father Flanagan's Boys' Home		

	Nebraska State Forest Service	*MnDOT Barriers 157 and 158 MASH 2016 Testing, Level 3 and Level 4 Evaluations \$560,286
	nercial U.S. Hazelnut Production	Nebraska Department of Transpo
	JSDA-NIFA through Oregon State University Nebraska State Forest Service	Bielenberg, RobertMidwest Roadside Safety
		Holloway, James Midwest Roadside Safety
3031011, 30000		Rasmussen, JenniferMidwest Roadside Safety
Commu	nity Adjacent Fuels Award	Rosenbaugh, ScottMidwest Roadside Safety
\$572,654	USDA-FS	Steelman, JoshuaCivil Engin
Protecting,	Rehabilitating and Restoring	*Crash Testing of a Precast Concrete Barrier
Nebrask	a's Pine Forest Ecosystems	\$414,128 lowa Department of Transpo
\$989,667	Nebráska Environmental Trust	Bielenberg, RobertMidwest Roadside Safety
Duplissis, John	Nebraska State Forest Service	Rasmussen, Jennifer Midwest Roadside Safety Rosenbaugh, Scott Midwest Roadside Safety
	on Treatments on Non-Federal Lands	
	USDA-FS	MASH TL-4 Steel-tube Bridge Rail and Guardrail Transitio \$926,851
	on and Stewardship Education	Nebraska Department of Transpo
	aska Educators and Youth	Bielenberg, RobertMidwest Roadside Safety
\$295,781	USDA-FS	Rasmussen, JenniferMidwest Roadside Safety Rosenbaugh, ScottMidwest Roadside Safety
Eskridge, Kent	Statistics	T 12D T 15 1 (
	lowship Program for Statistics	Test Level 3 Dynamic Testing and Evaluation of
	bD	MnDOT's Noise Wall System under AASHTO MASH 2016 \$305,115 DOT-MN DOT t
		Nebraska Department of Transpo
Fabrikant, Ilya	Physics and Astronomy	Holloway, JamesMidwest Roadside Safety
	collisions with Molecules and Clusters	Lechtenberg, KarlaMidwest Roadside Safety
	NSF	Rasmussen, JenniferMidwest Roadside Safety
,		Rosenbaugh, ScottMidwest Roadside Safety
Faller, Ronald	Midwest Roadside Safety Facility	J
	rious Bridge Guardrails and Transitions	Dynamic Testing and Evaluation of a New York DOT
\$799.563	DOT-FHWA through	Prototype Box Beam Guardrail End Terminal System
<i>+,</i>	Hawaii Department of Transportation	under AASHTO MASH 2016 TL-3 Guidelines
Bielenberg, Robert	Midwest Roadside Safety Facility	\$265,250 New York State Department of Transpo
Holloway, James	Midwest Roadside Safety Facility	through Nebraska Department of Transpo
Lechtenberg, Karla	Midwest Roadside Safety Facility	Lechtenberg, KarlaMidwest Roadside Safety
Ranjha, Sagheer	Midwest Roadside Safety Facility	Rasmussen, JenniferMidwest Roadside Safety
Rasmussen, Jennifer	Midwest Roadside Safety Facility	Reid, John Mechanical & Materials Engi
Reid, John	Mechanical & Materials Engineering	F I C (N) I TODD (I MACHT
	Midwest Roadside Safety Facility	Evaluation of New Jersey TCB Performance under MASH T
		\$702,369
Steelman, Joshua	Civil Engineering	Bielenberg, RobertMidwest Roadside Safety
Stolle, Cody	Midwest Roadside Safety Facility	Lechtenberg, KarlaMidwest Roadside Safety
		Reid, John Mechanical & Materials Engin
		in the state of th

Level 3 and Lev	ol 4 Evaluations
\$500,200	DOT-MN DOT through
Nebr	aska Department of Transportation
Bielenberg, Robert	Midwest Roadside Safety Facility
	Midwest Roadside Safety Facility
Rasmussen, Jennifer	Midwest Roadside Safety Facility
Rosenbaugh, Scott	Midwest Roadside Safety Facility
Steelman Joshua	Civil Engineering
,,	
*Crash Testing of a Pr	ecast Concrete Barrier
	lowa Department of Transportation
Pielenhaus Dahaut	Midwest Roadside Safety Facility
blelenberg, Robert	
Rasmussen, Jennifer	Midwest Roadside Safety Facility
Rosenbaugh, Scott	Midwest Roadside Safety Facility
MASH TL-4 Steel-tube Bridge	Rail and Guardrail Transition
\$926,851	DOT-IL DOT/OH DOT through
Nebr	aska Department of Transportation
Bielenberg, Robert	Midwest Roadside Safety Facility
Rasmussen lennifer	Midwest Roadside Safety Facility
Rosenhaugh Scott	. Midwest Roadside Safety Facility
Rosenbudgii, scott	Wild west Roddside Safety Facility
Test Level 2 Domesia Te	esting and Evaluation of
	under AASHTO MASH 2016
\$305,115	DOT-MN DOT through
Nebr	aska Department of Transportation
Holloway, James	Midwest Roadside Safety Facility
Lechtenberg, Karla	Midwest Roadside Safety Facility
Rasmussen, Jennifer	Midwest Roadside Safety Facility
Rosenbaugh, Scott	Midwest Roadside Safety Facility
5 /	, ,
Dynamic Testing and Eval	uation of a New York DOT
	drail End Terminal System
under AASHTO MASH	1 2016 TL-3 Guidelines
\$200,200 New fork 3	State Department of Transportation
through Nebr	aska Department of Transportation
	Midwest Roadside Safety Facility
Rasmussen, Jennifer	Midwest Roadside Safety Facility
Reid, John	Mechanical & Materials Engineering
Evaluation of New Jersey TCB	Performance under MASH TL-3
\$702.369	DOT-FHWA through
Nebro	aska Department of Transportation
Rielenhera Robert	Midwest Roadside Safety Facility
Lechtenhera Karla	Midwest Roadside Safety Facility
Daid Jahr	Assessing O Materials Frair
reia, John N	Mechanical & Materials Engineering
Kosenbaum, Scott	Midwest Roadside Safety Facility

Iowa DOT Combination Bridge Separation Barrier with Bicycle Railing	Fielding, Christopher Earth and Atmospheric Sciences ELT Collaborative Research:
\$254,445DOT-FHWA through	Causes and Effects of the Permian-Triassic Biotic Crisis
Nebraska Department of Transportation Bielenberg, RobertMidwest Roadside Safety Facility	Inferred from Continental Margin Sections and Modeling
Reid, John Mechanical & Materials Engineering	\$400,157NSF Frank, TracyEarth and Atmospheric Sciences
Rosenbaugh, ScottMidwest Roadside Safety Facility	
Phase II Conceptual Development of an Impact	Fontaine, Joseph Natural Resources
Attenuation System for Intersecting Roadways	Climatic Constraints on Bobwhite Quail
\$256,184DOT-FHWA through	Populations along Their Northern Extent \$424,913DOI-FWS through
Nebraska Department of Transportation	Nebraska Game and Parks Commission
Bielenberg, RobertMidwest Roadside Safety Facility Reid, John Mechanical & Materials Engineering	Bachman, Gwendolyn
Fernandez-Ballester, Lucia Mechanical & Materials Engineering	Forbes, Cory Natural Resources/
Nucleation Control of Conjugated Polymers through	Robert B. Daugherty Water for Food Institute
Melt-crystallization and Self-seeding	IUSE: Fostering Undergraduate Students'
\$345,000NSF	Disciplinary Learning and Water Literacy \$299,018NSF
	Brozovic, Nicholas
Fernando, Samodha Animal Science	Robert B. Daugherty Water for Food Institute
Investigating Mobile Genetic Elements and Resistance Gene	Franz, Trenton
Reservoirs towards Understanding the Emergence and Ecology of Antimicrobial Resistance in Beef Cattle Production Systems	Robert B. Daugherty Water for Food Institute
\$830,751USDA-NIFA	France Ocale Lies - Notation and Health Original
Bartelt-Hunt, ShannonCivil Engineering	Franzen-Castle, Lisa Nutrition and Health Sciences iCook: A 4-H Program to Promote Culinary Skills and
Loy, Dustin Veterinary Medicine and Biomedical Sciences	Family Meals for Obesity Prevention
Messer, Tiffany	\$332,321 USDA-NIFA through University of Maine
Paz Manzano, Henry Animal Science	Krehbiel, MichelleExtension
Schmidt, Amy Animal Science/Biological Systems Engineering	V
Snow, Daniel	Voices for Food \$618,314 USDA-NIFA through South Dakota State University
Stowell, Rick Biological Systems Engineering	Kroupa, MichelleNortheast Research and Extension Center
Moving Beyond Rumen Microbiota Composition to	Sale, BrendaNortheast Research and Extension Center
Identify Interactions between Host Genotype and Rumen	
Function towards Identifying Genetic Markers and	Fritz, Sherilyn Earth and Atmospheric Sciences/
Microbial Functions that Influence Feed Efficiency	Biological Sciences
\$500,000	FESD Type 1: The Dynamics of Mountains, Landscapes,
Morota, Gota	and Climate in the Distribution and Generation of Biodiversity of the Amazon/Andean Forest
Spangler, MatthewAnimal Science	\$378,847
Improving Air Quality by Reducing Methane Emissions from Cattle	Fuchs, Brian Natural Resources
\$348,298 Nebraska Environmental Trust Erickson, Galen Animal Science	Drought Information Services and Research for Agriculture
Kononoff, Paul	across the United States
	\$925,889

Fuchs, Matthias	Physics and Astronomy	Gay, Timothy	Physics and Astronomy	
	Investigation of Laser-driven	Accurate Electron Spin Optical Polarimetry (AESOP)		
	elativistic Electron Beams	\$565,000	NSF	
	NSF	D. I	LEL . DI :	
	Physics and Astronomy		zed Electron Physics	
Snadwick, Bradley	Physics and Astronomy	\$642,714	NSF	
Nor	nlinear X-Ray Optics	Ge, Yufeng	Biological Systems Engineering	
. ,	DOE	*CPS: 3D Dynamic	Soil Information System Enabled I Proximal Depth Sensing	
Gamon, John	Natural Resources	\$717,698	USDA-NIFA	
Dimensions NASA: Lin	king Remotely Sensed Optical Diversity	Shi, Yeyin	Biological Systems Engineering	
	ogenetic and Functional Diversity		Computer Science and Engineering	
	ct Ecosystem Processes	Zhou, Yuzhen	Statistics	
\$/16,893	NSF	VicNIP Racad M	ulti-sensing Penetrometer for	
Evaluating Growing Sec	ason Length and Productivity across the		plution Depth Sensing of Soils	
	ovel Satellite Indices and a Ground Sensor		USDA-NIFA	
	NASA	ψ 133,030 1111111111111111111111111111111		
	Biological Systems Engineering	Plant P	sitioning to the Next-generation Phenotyping Robots	
Gardner, Scott	University of Nebraska State Museum/	\$285,000	USDA-NIFA	
,	Biological Sciences		Biological Systems Engineering	
CSBR: Natural History	: Digitizing and Conserving Specimens	Schnable, James	Biological Systems Engineering	
	er Laboratory of Parasitology	IDDD T A MALE		
	NSF	IDBK: Type A: Mult	ispectral Laser 3D Ranging and tem for Plant Phenotyping	
	University of Nebraska State Museum	\$534 194	NSF	
	University of Nebraska State Museum	Walia Harkamal	Agronomy and Horticulture	
Racz, Gabor	University of Nebraska State Museum	Yu, Hongfeng	Computer Science and Engineering	
	ory: Securing and Digitizing Data for			
	Specimens in the Manter Laboratory	Gilmore, Troy	Natural Resources	
	NSF		ed-scale Groundwater Transit Time	
Racz, Gabor	University of Nebraska State Museum		Sampling and Numerical ModelingNSF	
			Biological Systems Engineering	
Gaussoin, Roch	Agronomy and Horticulture		Earth and Atmospheric Sciences	
	ality Protein Popcorn as a Non-GMO	Ziotilik, Vitaly	Edi til dila / tillospherie sciences	
	Enhanced Nutritional Quality,	Gogos, George	Mechanical & Materials Engineering	
	lume and Flavor Profile		iomimetic Micro/Nanostructured	
	ConAgra Agronomy and Horticulture		second Laser Surface Processing	
	Agronomy and Horticulture		Il Management Systems	
Rose. Devin	Food Science and Technology		NASA-EPSCoR through UNO	
	yy		Electrical and Computer Engineering	
			Electrical and Computer Engineering	
		Ndao, Sidy	Mechanical & Materials Engineering	
		Shield, Jeffrey	Mechanical & Materials Engineering	

Golick, Douglas	Entomology	Benchmarkina S	Soybean Production Systems	
*Building Undergraduate Research a			North-Central USA	,
		\$872,920		arch Program
Communication Skills through Beneficial In Research and Extension Experience		\$072,320 · · · · · · · · · · · · · · · · · · ·	ior tir Central Joybean Reset	archirogram
\$344,767	USDA-NIFA	Griep, Mark		Chemistry
Anderson, Troy	Entomology		e Chemistry Curriculum	•
Brewer, Gary	Entomology	\$749,285		NSF
Dauer, Jenny	Natural Resources	Ψ7.13)200		
Louis, Joe	Entomology		Experiences for Undergradu	
McMechan, Justin Easter		in Chemical Assemb	oly at the University of Nebro	aska
	and Extension Center	\$339,683		NSF
Peterson, Julie West Central Research				
Velez Arango, Ana Maria	Entomology	Gruverman, Alexei	Physics an	d Astronomy/
Weissling, Tom	Entomology	Nehras	ka Center for Materials and	
Wu-Smart, Judy	Entomology		ering for Novel Nanoelectro	
		\$338,422		
Community as Habitat: Nebraska Commur		\$330, 4 22		
Pollinators and Landscape Diversity		Ounts Hillands	Food Onlance on	d Tankandanı
Native Waterwise Plant Habit		Gupta, Jhinuk	Food Science an	• • • • • • • • • • • • • • • • • • • •
\$364,520 Nebrask			solation and Characterization	
Evertson, Justin Nebrask	a State Forest Service	\$446,250		
		Danao, Mary-Grace	Food Science an	id lechnology
Graef, George Agror	nomy and Horticulture	Weller, Curtis	Food Science an	id lechnology
Utilizing Unique Genetic Diversity to				
Elevated Protein Concentration with		Guretzky, John	Agronomy and	d Horticulture
in New Varieties and Experimento			earch and Extension Skills of	f
\$524,867United Soybean			egrated Agronomic Systems	
Hyten, David Jr	omy and Horticulture	\$275,667		. USDA-NIFA
3		Blanco, Humberto	Agronomy and	d Horticulture
Increasing the Rate of Genetic G	ain for	Elmore, Roger	Agronomy and	d Horticulture
Yield in Soybean Breeding Progr		Howell Smith, Michelle	Nebraska Center for	r Research on
\$282,668 North Central Soybean Resea			Children, Youth, Families	
·	Ohio State University	Redfearn, Daren	Agronomy and	d Horticulture
Ge, Yufeng Biologica	l Systems Engineering			
Hyten, David Jr Agron	omy and Horticulture	Harwood, David	Earth and Atmosphe	ric Sciences/
		nai wood, barra		lling Program
Soybean Breeding and Genetic Studies	for Nebraska	Subalacial Antarctic	Lakes Scientific Access (SAI	
\$286,060 Neb	oraska Soybean Board		tudy of Carbon Cycling in	L3/ ().
			ctive Subglacial Environment	te
Grassini, Patricio Agror	nomy and Horticulture	\$332,346		
Developing a Platform to Monitor N Footprint		McManis, James		
\$431,000		ivicivianis, sames	. Engineering// intereste Dir	iiiig i rograiii
Brozovic, Nicholas				
Robert B. Daugherty W				
Gibson, Kate Robert B. Daugherty W				
Rattalino Edreira, Juan Ignacio Agron				
1121211110 201011 0, 00011 1gildolo 1111111 / 1giloli	in the state of th			

Heaton, Ruth Teaching, Learning and Teacher Education/ Nebraska Center for Research on Children, Youth, Families and Schools/ Center for Science, Mathematics and Computer Education Math Early On II \$662,227	Housh, Terry Nutrition and Health Sciences/ Nebraska Center for the Prevention of Obesity Diseases through Dietary Molecules Bioavailability and Distribution of Bovine Milk Exosomes and their RNA, Lipid and Protein Cargos in Mice \$347,185
Hebets, Eileen A Comparative Systems Approach to Complex Animal Signaling \$657,502	\$725,926
Hermiller, Susan Topology and Geometry of Cayley Graphs for Groups \$251,096	Hughes, Michelle Special Education and Communication Disorders *Telepractice for Cochlear Implants \$319,682
Nebraska Genter for Materials and Nanoscience Exploring Spin-Orbit Coupling and Correlated Phenomena in Iridate-based Ferroelectric Transistors and Tunnel Junctions \$499,012	*Physiology as a Potential Predictor of Perception in Cochlear Implants \$291,566
\$750,262	Hunt, Thomas Northeast Research and Extension Center Evaluating the Efficacy of Insect Resistance Management Plans for Delaying the Onset of Bacillus Thuringiensis Toxin Resistance in Western Bean Cutworm Populations \$492,497
4555,	Hutkins, Robert Food Science and Technology Digestive Tract Microbiome in Healthy Term Infants Receiving Mothers-own Breast Milk or Cows Milk-based Infant Formulas \$295,749

REU Site: Research Experience for Undergraduates in	
Nanohybrid Functional Materials Identification and \$306,032NSF through Integrated	Nebraska Transportation Center d Modeling of Interphase in Cementitious Mixtures d Experimental-Computational Multiscale Approach
	Mechanical & Materials Engineering/ Nebraska Transportation Center
\$296,286 E. I. Dupont Knoche, Lisa Lindquist, John Agronomy and Horticulture	Nebraska Center for Research on Children, Youth, Families and Schools Ready Preschool Development Grant PDG
Johnson, Phillip Food Science and Technology *Robust Methods for Food Allergen Detection and Quantitative Risk Assessment \$318,116	DHHS-ACF-Nebraska Department of Health and Human Services through Nebraska Children and Families Foundation
Marsh, Justin Food Science and Technology Hydrogeol	Natural Resources eoCloud: An Integrated Bedrock Mapping and elogic Framework Database and Map Viewer Nebraska Department of Natural Resources through
Kelling, Clayton Veterinary Medicine and Biomedical Sciences Establishing One Health Best Practices for Range Bison Herds Cameron, Kathlee	Lower Platte South NRD n
Understanding of Corn-Water Ethanol-Beef System Nexus	Physics and Astronomy lechanics of Non-Local Disordered Models with Associated Quantum LDPC Codes
Chen, Jiajia	NSF Extension
Rosenbaum, David	ka CYFAR Sustainable Community ProjectUSDA-NIFANutrition and Health SciencesNutrition and Health Sciences
Khan, Bilal Sociology Franzen-Castle, Lis	Nutrition and Health Sciences Nutrition and Health Sciences
\$296,969	Natural Resources pping Hydrogeologic Databases to Assist in Water Resources Management
Kim, Surin Textiles, Merchandising and Fashion Design Leveraging Community Connections, Local Issues, \$654,700	Lower Elkhorn NRD
to Nurture Rural Economic Opportunities *BA	Panhandle Research and Extension Center ARRAL - Bioenergy, Advanced Biofuel Rubber Research Agricultural Linkages
De Guzman, Maria	USDA-NIFA through Ohio State UniversityPanhandle Research and Extension CenterPanhandle Research and Extension Center

Lechtenberg, Karla Midwest Roadside Safety Facility	Lodl, Kathleen Extension	
Crash Testing MoDOT Devices	*EAGER: Empowering Out-of-School-Time Educators	
\$376,367Missouri Department of Transportation through	and Students through 4-H and the Land-Grant System	
Nebraska Department of Roads	\$299,950NSF	
Faller, Ronald Midwest Roadside Safety Facility	Frerichs, SaundraExtension	
Holloway, Jim Midwest Roadside Safety Facility	Guru, AshuExtension	
Rasmussen, Jennifer Midwest Roadside Safety Facility	Hawley, Leslie Nebraska Center for Research on	
	Children, Youth, Families and Schools	
Lewis, Elizabeth Teaching, Learning and Teacher Education	Wheeler, Lorey Nebraska Center for Research on	
Longitudinal Evaluation of Noyce Science Teachers to Determine Sources of Effective Teaching	Children, Youth, Families and Schools	
\$799,890NSF	Lu, Yongfeng Electrical and Computer Engineering	
Claes, Daniel Physics and Astronomy	*Fabrication and Verification of Fuel Targets	
Harwood, David Earth and Atmospheric Sciences	for Laser Fusion Research	
Heng-Moss, Tiffany College of Agricultural Sciences and Natural Resources	\$296,637	
	Radar 2021	
Lewis, Ronald Animal Science	\$740,025 Honeywell FM & T	
Understanding Parasite Resistance in Organic Livestock	High-power Laser System for Repairing Al-Mg Alloy Ship Plates	
and Using a Systems Approach for Control	\$349,506	
\$291,478USDA-ARS	ψο 15,000 ····· Βου στα σοια	
	Post-Detonation Radiological and Nuclear Forensics	
Li, Qingsheng Biological Sciences/	Using Laser-Assisted Mass Spectrometry in Open Air	
Nebraska Center for Virology	\$750,000DoD-DTRA	
Impact of Fc N-glycan Structure on HIV-specific Antibody Functions		
\$438,219NIH-NIAID through University of Wyoming	Vertically Aligned Carbon-Nanotubes Embedded	
	in Ceramic Matrices for Hot Electrode Applications	
Long-acting Antiretroviral Nanoparticles for HIV Prophylaxis \$259,125 NIH-NIAID through Creighton University	\$400,000 DOE-NETL	
	Diamond Coating Adaptive to Substrate Materials	
Li, Xu Civil Engineering	Using a Diamond-Composite Buffer Layer	
*Antibiotic Resistance Genes in the Soil-Plant Ecosystem	\$793,342 DoD-MDA	
\$330,000NSF		
Snow, Daniel Nebraska Water Center	Luck, Joe Biological Systems Engineering	
Walia, Harkamal Agronomy and Horticulture	Using Precision Technology in On-farm Field Trials	
	to Enable Data-intensive Fertilizer Management	
Lindquist, John Agronomy and Horticulture	\$513,798USDA-NIFA through	
A Risk-assessment Model and Population Genomics Tools for	University of Illinois at Urbana-Champaign	
Monitoring Herbicide-resistance Evolution in Weedy Sorghum	Ferguson, Richard Agronomy and Horticulture	
\$499,998USDA-NIFA	Glewen, Keith Agronomy and Horticulture	
Jhala, Amit Agronomy and Horticulture	Mieno, Taro Agricultural Economics	
Sigmon, Brandi Agronomy and Horticulture	Thompson, Laura Agronomy and Horticulture	
Tenhumberg, Brigitte Mathematics/Biological Sciences		

Next-generation Spray Drift Mitigation via Field-deployable, Real-time Weather Monitoring and	Meinke, Lance Entomology
Novel Spray Nozzle Control Technologies	Characterizing Resistance Evolution to Pyrethroid Insecticides
\$499,916	\$528,340 Monsanto
Kruger, Greg West Central Research and Extension Center	Massay Tiffany
Pitla, Santosh Biological Systems Engineering	Messer, Tiffany Biological Systems Engineering Photodegradation of Insecticides in Rivers Adjacent to Agricultural Intensive Regions: A Novel Water Quality Monitoring Approach
Males, Lorraine Teaching, Learning and Teacher Education	\$498,500USDA-NIFA
Examining the Impact of the CPM Implementation	Snow, Daniel
in an Urban District	Show, Bullett Water Center
\$384,753College Preparatory Mathematics (CPM)	Montooth, Kristi Biological Sciences
Educational Program	*RoL: FELS: EAGER: A Predictive Framework of Metabolism
	as an Engine of Functional Environmental Responses
Mamo, Martha Agronomy and Horticulture	across Levels of Biological Organization
Fostering the Next Generation of Agricultural and	\$299,999NSF
Natural Resources Professionals through Experiential Learning in Research, Education and Extension	DeLong, JohnBiological Sciences
\$281,475 USDA-NIFA	Moreau, Regis Nutrition and Health Sciences
Keshwani, Jennifer Biological Systems Engineering	Bioactivity of Curcumin and Gut Inflammation
Lambe, David Agronomy and Horticulture	\$480,214USDA-NIFA
Lee, Donald Agronomy and Horticulture	Hage, David
Matkin, Gina Agricultural Leadership,	rago, zana rri rri rri rri rri rri rri rri rri silanisti y
Education and Communication	Munoz-Arriola, Francisco Biological Systems Engineering
Sandall, Leah	From Gene to Global Hydroclimatic Controls
Schacht, Walter Agronomy and Horticulture Speth, Carol Agronomy and Horticulture	on Hybrid Performance Predictability
Specif, Carol	\$490,000
Grazing Management Effect on Micro- and Macro-Scale Fate	Hernandez Jarquin, Juan Diego Agronomy and Horticulture
of Carbon and Nitrogen in Rangelands	
\$497,000 USDA-NIFA	Nastasi, Michael Mechanical & Materials Engineering/
Bradshaw, Jeffrey Panhandle Research and Extension Center	Nebraska Center for Energy Sciences Research
Eskridge, Kent Statistics	Radiation Tolerance and Mechanical Properties
Ferguson, Richard Agronomy and Horticulture	of Advanced Ceramic/Metal Composites
Guretzky, John Agronomy and Horticulture	\$994,292 DOE
Jenkins, Karla Panhandle Research and Extension Center	
Schacht, Walter	Neale, Christopher Biological Systems Engineering/
Volesky, Jerry West Central Research and Extension Center Wingeyer, Ana Agronomy and Horticulture	Robert B. Daugherty Water for Food Institute
Yang, Haishun Agronomy and Horticulture	Improving Variable Rate Irrigation Efficiency using
rung, ridishun	a Real-time Soil Water Adaptive Control Model
Markham Janathan Dipahamiatry	Informed by Sensors Deployed on Unmanned Aircraft Systems
Markham, Jonathan Biochemistry	\$499,978
Plant Sphingolipids: New Targets for Engineering Cold-Tolerance in Crops	Ge, Yufeng Biological Systems Engineering
\$408,000 USDA-NIFA	Heeren, Derek Biological Systems Engineering
Cahoon, Edgar	Luck, Joe Biological Systems Engineering
caco., Lagar	Meyer, George
	Woldt, Wayne Biological Systems Engineering

Nguyen, Lim	Electrical and Computer Engineering	Pérez, Lance	Electrical and Computer Engineering	
	SRA: Center for Electromagnetic	Spatial Visualization	Skills and Engineering Problem Solving	
	&D and Shielding Innovations	\$645,943	NSF	
\$301,408	. American Business Continuity Domes, Inc.			
			A Chautauqua Program for the 21st Century	
Niu, Wei	Chemical and Biomolecular Engineering/	\$448,603	\$448,603NSF	
	braska Center for Energy Sciences Research			
	ng Carboxylic Acid Reductase	Petersen, Jessica	Animal Science	
for the Biosy	for the Biosyntheses of Industrial Chemicals		*Annotation of Functional Regulatory Regions in the Horse	
	\$335,516NSF		\$500,000	
	Chemistry/Nebraska Center for	. ,		
Miles a Manul	Energy Sciences Research	Piepenbrink, Kurt	Food Science and Technology	
wilson, Mark	Wilson, Mark Biochemistry/Nebraska Center for		Structural Basis of Type IV Pilus-Induced	
	Energy Sciences Research	I .	difficile Microcolony Formation	
SucchEM. Nava	I 1 2 Draw are adial Discounth asia from	\$259,560	NIH-NIAID	
	l 1,2-Propanediol Biosynthesis from dstocks through Enzyme Discovery			
	NSF	Pierobon, Massimiliano	Computer Science and Engineering	
		CIF: Small: WetComm: F	oundations of Wet Communication Theory	
Guo, Jiulituo	Cilemistry	\$515,528		
Norman A. Orman	Naharaka Cantas fas Dagasah as	Niu, Wei	Chemical and Biomolecular Engineering	
Nugent, Gwen	Nebraska Center for Research on			
	Children, Youth, Families and Schools	Pitla, Santosh	Biological Systems Engineering	
	Science Coaching: What, Why and How		perational Load Profile Generation in	
	NSF		actor Testing in Mixed-mode Power States	
Houston, James	Nebraska Center for Research on	\$472.887	USDA-NIFA	
	Children, Youth, Families and Schools	Hov. Roger	Biological Systems Engineering	
Kunz, Gina	Nebraska Center for Research on		Biological Systems Engineering	
	Children, Youth, Families and Schools		Biological Systems Engineering	
		, , , , , , , , , , , , , , , , , , , ,		
Odhiambo, Lameck	Biological Systems Engineering	Powell, Larkin	Natural Resources	
	rmers' Behavior to Reduce Irrigation		Private Grazing Lands in Nebraska:	
	Water Measurements and Social Norms		Ranch Management and Landowner	
	ise Study in the Republican River Basin		cs Affect Conservation Impacts	
	USDA-NIFA	\$3// 521	Nebraska Game and Parks Commission	
Olson, Kristen	Sociology	Schacht Walter	Agronomy and Horticulture	
		Schacit, Water	Agronomy and Horticulture	
Otu, Hasan	Electrical and Computer Engineering	Persistent Effe	ects of Wind-Power Development	
	cterization of Interaction Atlases in Humans	I .	airie Grouse in Nebraska	
	DHHS-National Library of Medicine		Nebraska Game and Parks Commission	
Sayood, Khalid	Electrical and Computer Engineering		Natural Resources	
	•		Natural Resources	
Pannier, Angela	Biological Systems Engineering	, ,		
	nding Molecular Factors that	Powers, Robert	Chemistry	
	tion of Porcine Embryo Elongation	· ·	tion: A Metabolomics Toolkit	
	USDA-NIFA		R and Mass Spectrometry	
,,		\$695,000	NSF	
		ψυσσ,ουυ		

The Role of Maturity Group	Agronomy and Horticulture ems for Resilience to Stress: Selection and Cover Crops sects and Microbes	using Virtualization a	Computer Science and Engineering elligent Optical Networks and Software-Defined ControlNSF
\$461,187 Drewnoski, Mary Everhart, Sydney McMechan, Anthony		CC*DNI Integration: Innov through Openflow and Cont \$572,112	ating Network Cyberinfrastructure ent Centric Networking in NebraskaNSFComputer Science and Engineering
	Agronomy and Horticulture	Rasby, Rick	Extension n Implementation Program
Spectrum and Energy Efficie Wireless Networks with Dense \$300,000	lectrical and Computer Engineering with Radio Resource Access in ely Deployed Underlay DevicesNSF ectrical and Computer Engineering	\$627,447 Bradshaw, Jeffrey Pan Glewen, Keith Soi Green, Jody Soi Jackson-Ziems, Tamra Jhala, Amitkumar	In Implementation Program USDA-NIFA Ishandle Research and Extension Center Istheast Research and Extension Center
Online Nonintrusive Identification Points of Electro-energy Devices U	lectrical and Computer Engineering and Monitoring of Internal Weak sing Package Surface TemperatureNSF	Ogg, Clyde	Agronomy and Horticulture Entomology Entomology
*SCC: An Integrate for Irrigation Manageme \$541,048USI Rudnick, Daran West Cen	dle Research and Extension Center d and Smart System ent in Rural Communities DA-NIFA through University of Iowa tral Research and Extension Center Agronomy and Horticulture	under MASH Impact \$400,000	Midwest Roadside Safety Facility Cone of Intrusion Envelopes Conditions for Rigid Barrier National Academy of Sciences-NCHRPMidwest Roadside Safety FacilityMidwest Roadside Safety FacilityMidwest Roadside Safety Facility
\$354,089	Mathematics els in Continuum MechanicsNSFMathematics	Sustaining Agriculture throug a Declining Ogallala A	Water Center/Civil Engineering/ t B. Daugherty Water for Food Institute th Adaptive Management Resilient to Aquifer and Changing Climate
	Child, Youth and Family Studies eps to School SuccessSave the Children	Rudnick, Daran West C Robert	NIFA through Colorado State University Sentral Research and Extension Center/ t B. Daugherty Water for Food Institute ultural Economics/Robert B. Daugherty Water for Food Institute
Rajca, Andrzej Organic Nanoparticles for Dual N and Ovarian Can	Chemistry MRI-Guided Therapeutic Selection cer Drug Delivery		Central Research and Extension Center/ t B. Daugherty Water for Food Institute
\$316,735	NIH-NCI through ssachusetts Institute of Technology	of Nebraska (Zone for Improved Management Ground Water Quality Nebraska Environmental Trust
	tered RadicalsNSF	Snow, Daniel	

\$300,000	Veterinary Medicine and Biomedical Sciences athy and Insulitis by VaccinationAmerican Heart Association nical and Biomolecular Engineering Medicine and Biomedical Sciences	to Identify Changes in the Associated with Illness during the N \$301,793Foundation fo	Animal Science vanced Computer Vision Platform Physiological and Behavioral Changes and Aggressive/Damaging Behavior lursery and Finisher Phase or Food and Agriculture Research through National Pork Board
Harris, Steven	Biological Sciences logy of Fungal-Algal MutualismsNASAPlant PathologyPlant Pathology	Pérez, Lance	Animal Science Electrical and Computer Engineering Electrical and Computer Engineering Agronomy and Horticulture/ Center for Plant Science Innovation
\$336,544 Nebro	Civil Engineering/ Nebraska Transportation Center pment EnhancementDOT-FHWA through aska Department of Transportation .Midwest Roadside Safety Facility/ Nebraska Transportation Center	of Organism \$299,801 High-throughput, High-re Efficiency Using Co	ienetic Constraints on the Increase al Complexity Over TimeNSF esolution Phenotyping of Nitrogen Use upled In-plant and In-soil Sensors IOE-ARPA-E through Iowa State University
\$309,141	Midwest Roadside Safety Facility Rail for Low-volume Roads	in Maize, Sorghu \$455,000	Conferring Low Temperature Tolerance m, and Frost-tolerant Relatives

Sear	ie i	viinn	ш
ocui	10. I	viiiiu	ш

Earth and Atmospheric Sciences/ Center for Science, Mathematics and Computer Education

GP-IMPACT: Building a Comprehensive Geoscience Learning Experience \$400,075NSF Arthurs, Leilani Earth and Atmospheric Sciences/ Center for Science, Mathematics and Computer Education Bathke, Deborah Earth and Atmospheric Sciences Harwood, David Earth and Atmospheric Sciences Sellmver, David Physics and Astronomy/ Nebraska Center for Materials and Nanoscience *MRI: Acquisition of a Low-temperature High-magnetic-field Multifunctional Scanning Probe Microscopy System \$330.530NSF Xu. Xiaoshan Physics and Astronomy/ Nebraska Center for Materials and Nanoscience DMREF: Design and Synthesis of Novel Magnetic Materials Xu, Xiaoshan Physics and Astronomy Shadwick, Bradley **Physics and Astronomy** Generation and Control of Self-organized Nonlinear Kinetic Structures in High-energy Density Plasmas in the Presence of Intense Magnetic Fields and Ultrashort Laser Pulses High Fidelity Modeling of Laser-Plasma Accelerators \$524,991NSF Sharif-Kashani, Hamid **Electrical and Computer Engineering** Wireless Digital Train Line for Passenger Trains: Exploring Railroad Requirements, Achieving Synergy, and Designing WiDTL for Next-generation Passenger Rail Services Hempel, Michael Electrical and Computer Engineering Shen, Zhigang **Durham School of Architectural Engineering and Construction** *A Fast and Low-cost Method to Automate Detecting, Locating and Mapping Internal Gas Pipeline Corrosion using Pig-mounted Thermal and Stereo Cameras

Shield, Jeffrey

Mechanical & Materials Engineering/ Nebraska Center for Materials and Nanoscience

*Faculty Development Program in Nuclear Engineering at University of Nebraska–Lincoln \$450,000
Grain and Interface Engineering for High-efficiency Hybrid Perovskite Solar Cells \$450,000
Sinitskii, Alexander Extended Atomically Precise Graphene Nanoribbons and Nanostructures with Improved Electrical Conductivity \$768,496
Smith, Wendy Mathematics/Center for Science, Mathematics and Computer Education *Persistence, Effectiveness and Retention Studies in STEM Teaching \$392,264 .NSF Augustyn, Lindsay .Center for Science, Mathematics and Computer Education Funk, Rachel .Center for Science, Mathematics and Computer Education
Teacher Leadership (T-LEAD): Investigating the Persistence and Trajectories of Noyce Master Teaching Fellows \$701,004
Student Engagement in Mathematics through an Institutional Network for Active Learning \$332,442
NebraskaNOYCE Phase II: Investigating the Impact in High-Need Districts \$349,864NSF Lai, Yuan-JuangMathematics/Center for Science,

Smyth, Jolene Sociology/	Storz, Jay Biological Sciences
Survey Research and Methodology	Causes of Parallel Molecular Evolution:
Using Statistical and Survey Methodology Research to Improve	Insights from Protein Engineering
or Redesign Surveys Related to Science and Engineering	\$262,752NSF
\$460.000	Moriyama, HideakiBiological Sciences
Olson, KristenSociology/Survey Research and Methodology	
	Stowell, Rick Biological Systems Engineering
Snow, Daniel Water Center/	*Water and Nutrient Recycling:
Robert B. Daugherty Water for Food Institute	A Decision Tool and Synergistic Innovative Technology
Vadose Zone Nitrate Study for the City of Hastings, NE: 2015	\$496,646USDA-NIFA through University of Arkansas
\$299,982City of Hastings, NE	Heemstra, Jill Northeast Research and Extension District
Ray, Chittaranjan	Schmidt, Amy Biological Systems Engineering
Robert B. Daugherty Water for Food Institute	Outro Fil
	Sutter, Eli Mechanical & Materials Engineering
Soh, Leen-Kiat Computer Science and Engineering	In-situ Electron Microscopy of DNA-guided Self-assembly
Computational Creativity to Improve Computer Science Education for	and Reconfiguration of 3D Nanocrystal Superlattices
CS and non-CS Undergraduates	\$534,231
\$873,250NSF Ingraham, ElizabethArt, Art History and Design	Succes, Feter Electrical and Computer Engineering
Moore, Brian	Hybrid Materials by Integration of
Ramsay, Stephen English	Semiconductor Nanowires and Layered Crystals:
Shell, Duane	Chemical Transformations and Functional Properties
	\$500,000 NSF
Spangler, Matthew Animal Science	Sutter, Peter Electrical and Computer Engineering
Beef Cattle Production System Decision Support Tools	
to Enable Improved Genetic, Environmental,	Svoboda, Mark Natural Resources
and Economic Resource Management	*MENAdrought Empowering and Enhancing Drought Management
\$299,312 USDA-NIFA	Systems in the Middle East-North Africa (MENA) Region \$362,226
	International Water Management Institute
Starace, Anthony Physics and Astronomy	Bathke, Deborah
Strong Field & Ultrafast Atomic and Molecular Processes	Brozovic, Nicholas Robert B. Daugherty Water for Food Institute
\$457,000NSF	Hayes, MichaelNatural Resources
Ottobarran Mitaball Bankardla Banarak and Entersian Contac	Jedd, Theresa Natural Resources
Stephenson, Mitchell Panhandle Research and Extension Center	Knutson, CodyNatural Resources
*Grazing Land Monitoring Cooperative for Adaptive Management \$250,000	Neale, Christopher Robert B. Daugherty Water for Food Institute
Volesky, Jerry West Central Research and Extension Center	
voicsky, serry west central Research and Extension center	Terry, Benjamin Mechanical & Materials Engineering
Stevens, Jeffrey Psychology/	Development of a Gastrointestinal Tissue Attachment Mechanism
Center for Brain, Biology and Behavior	\$619,776
Similarity as a Process Model of Intertemporal Choice	En Route Care Patient Viability Technology Development
\$655,576NSF	\$308,015 DoD-Offutt Air Force Base-STRATCOM through
Soh, Leen-Kiat	National Strategic Research Institute
Center for Brain, Biology and Behavior	

Toumbal Fuganu	Dhysics and Astronomy/	Umatadtar Danald	Dhysics and Astronomy
Tsymbal, Evgeny	Physics and Astronomy/ Center for Materials and Nanoscience	Umstadter, Donald	Physics and Astronomy
			ınd Hidden Explosives Using n-energy Electron Beams
	ch and Education in Multiferroic es between Tuskegee University		utt Air Force Base-STRATCOM through
	y of Nebraska-Lincoln	\$030,232	National Strategic Research Institute
	NSF through Tuskegee University	Baneriee, Sudeep	Physics and Astronomy
Dowben, Peter		Chen, Shouyuan	Physics and Astronomy
	Physics and Astronomy/	Ultra-low Emit	tance Electron Beams
	Center for Materials and Nanoscience	from Laser-Pla	asma Photo-cathodes
	.Mechanical & Materials Engineering/	\$374,844	NSF
	Center for Materials and Nanoscience	Banerjee, Sudeep	Physics and Astronomy
		Chen, Shouyuan	Physics and Astronomy
Tucker, Shane	University of Nebraska State Museum		
	leontology Program	Van Den Broeke, Matthew	Earth and Atmospheric Sciences
\$765.766	DOT-FHWA through		for Interdisciplinary STEM Training
	lebraska Department of Transportation	\$391,463	. NSF through University of Oklahoma
Towns to see	Mark at a 10 Mark at the Free transfer	Quantifying	the Relative Roles
Turner, Joseph	Mechanical & Materials Engineering		inge, Irrigation, and Remote Forcing
*PCC-3: Non-Destructiv	e Testing (NDT) Microstructural		ains Precipitation Variability
	acterization and Impact		
\$500,000	. DoD-Air Force Research Lab through Rolls Royce Corporation		Natural Resources
	Kolls Royce Corporation		Earth and Atmospheric Sciences/
An Integrated Experimen	tal and Computational Approach	3,	Natural Resources
	nechanical Mechanisms		
	rmal Morphogenesis	van Dijk, Karin	Biochemistry
	NSF		Generation of Biochemists
, , , , , , , , , , , , , , , , , , ,		\$599,096	NSF
Development of Imp	proved Product Performance	Couch, Brian	Biological Sciences
through Optim	zation and Modeling of		Biochemistry
Engineering Materio	als, Processing, and Function	Roston, Rebecca	Biochemistry
\$312,282	Amsted Industries		
			Science/Nebraska Center for Virology
Twidwell, Dirac Jr.	Agronomy and Horticulture	Development of a Broadly	Protective Diva Marker Vaccine
Juniper Invasions and L	andscape Intervention Potential:	against Porcine Reproductiv	ve and Respiratory Syndrome Virus
	vide Assessment		USDA-NIFA
	DOI-FWS through	Osorio, Fernando Veterino	ary Medicine and Biomedical Sciences/
	Nebraska Game and Parks Commission		Nebraska Center for Virology
Allen, Craig	Natural Resources		
		Determine the Correlates of Pr	otection against Porcine Reproductive Indrome Viruses Infection
			Center for Biotechnology/
			Nebraska Center for Virology
		Osorio, Fernando Veterino	ary Medicine and Biomedical Sciences/
			Nebraska Center for Virology
			9,

Vuran, Can *NeTS: Small: Connected Bar	Computer Science and Engineering riers: Vehicle-to-barrier Communication	Walker, Ma	I <mark>rk</mark> *Free Resolutions, K-Theory	Mathematics
and Networking for Si \$319,513	ngle-vehicle Crash Safety Facility 	\$257,571		NSF
Faller, Ronald Stolle, Cody	Midwest Roadside Safety Facility Midwest Roadside Safety Facility	Mea	dging Microscale to Macroso surements and Predication o	of Performance Limitation
for Efficie	N: Cognitive Secure Cloud RAN nt Spectrum Sharing		r FeCrAl Alloys under Extrem	ne Reactor Applications
Batur, DemetS		Nastasi, M	lichael Nebraska Cento	er for Energy Sciences Research
	upply Chain Management and Analytics Computer Science and Engineering		Computational and Experime of Twin-Twin Interactions in	n Hexagonal Metals
NeTS: Small: 2G for UG	6: High Data-rate and Long-range s for Wireless Underground Networks			NSF
\$450,000		Plasti \$250,018	icity of High-strength Multip	shase Metallic Composites through University of Michigan
	ancing Time Synchronization ble Wireless Networks	Wang, Lily		Durham School of Architectural Engineering and Construction
\$500,000	Computer Science and Engineering	\$998,433	and Their Effects on K-12 S	Indoor Environmental Factors tudent AchievementEPA
	Biological Sciences cy of Behavioral Plasticity rent Selective Contexts	Lau, Josepl	hine	Educational Psychology Durham School of Architectural Engineering and Construction Durham School of Architectural
	NSF	Waters, Cl	arence	Durham School of Architectural Engineering and Construction
to Capture Dynam	Agronomy and Horticulture ation: Using Plant Phenomics ic Growth Responses in Maize		Foundation Immunogens fo	
	ional Framework for Integrating Image	\$629,370		NIH-NIAID
Informatics with Transcripto	omics for Discovering Spatiotemporally ory Gene Networks in Plants	Weller, Cur Enhanci		Food Science and Technology by Jumproving Development
\$563,801	NSFComputer Science and EngineeringBiological Sciences		nd Implementation of Paster	urization Technologies rough Michigan State University
	Statistics	Whitbeck,	Les ress and Type 2 Diabetes an	Sociology
Walker, Judy NSF INCL	Mathematics/Center for Science, Mathematics and Computer Education UDES: WATCH US —	\$260,343 Crawford,	Devan	NIH-NIDDK through University of Minnesota Duluth Sociology
	Community Hubs in the United StatesNSF	Hartshorn,	Kelley	Sociology

\$480,000	Animal Science Receptor in Testicular Function of Swine	Stat \$337,995 ED f Wu-Smart, Judy *Great Plains Regional T	Special Education and Communication Disorders of Spectrum Disorders Network, the Coordinator Project through Nebraska Department of Education Entomology Fraining for Beginning Beekeeping Farmers
	Plant Pathology nisms Integrating Fungal Growth nate Immunity Suppression	. ,	USDA-NIFA terinary Medicine and Biomedical Sciences/ Nebraska Center for Virology
\$599,999 IOS: Molecular Mechanism	ns Connecting Plant Defense Suppression the oryzae Growth in Rice Cells	Ebola Inhibito	I Delivery and Retention of or Scytovirin Using Lactobacillus
\$570,000 Witte, Amanda Nebrask	Nebraska Center for Research on Children, Youth, Families and Schools Multi-Tiered System of Education Support Team	\$461,983	Food Science and Technology Berry Sustainability and Fruit Quality USDA-AMS through Nebraska Department of Agriculture Statistics Food Science and Technology
Witt-Swanson, Lindsey Behavioral Risk Factor Surv. \$682,361 Nebraska E Gohring, Nicole	Sociology/ Bureau of Sociological Research reillance Survey and Adult Tobacco SurveyDHHS-CDC through Department of Health and Human ServicesBureau of Sociological Research	Estimation Method \$498,878 NeTS: Small: Sy Network Pro	Computer Science and Engineering oring the Design Space of Bandwidth s Using Packet Sequence Information
and Risk Pre \$281,322 Nebraska E	2019 Student Health vention Surveillance SystemDHHS-CDC through Department of Health and Human Services	*Microstructure	Physics and Astronomy/ raska Center for Materials and Nanoscience and Strain Effects on Ferroelectric roperties of HfO2-based Thin Films
\$841,402	Biological Sciences/Biochemistry/ Nebraska Center for Virology logy Research Training ProgramNIH-NIAIDPlant Pathology	\$519,740	
of Bio- \$499,718	Agronomy and Horticulture agement to Speed Degradation based Mulches in Soil		

IoT Communication Usir \$499,999	Computer Science and Engineering lio: Towards Secure Smart Home ng Hybrid Ultrasonic-RF RadioNSF . Mechanical & Materials Engineering
Micronutrients I \$500,000	Agronomy and Horticulture rious Alleles for Genome-Enabled mprovement in Maize
at the Si	Mechanical & Materials Engineering anics and Mechanotransduction ngle Cell Level
\$439,584 Lim, Jung Yul	
in IUGR-born Low \$500,000	Animal Science formance and Quality v-birthweight Livestock
Yoder, Aaron	Biological Systems Engineering ka AgrAbility
\$729,000Frecks, Nancy	
Riley, Mark	Biological Systems Engineering
in the 3' Maturation o	Biological Sciences/ Center for Plant Science Innovation Mechanism of the DSP1 Complex f Plant Small Nuclear RNAs

Yu, Hongfeng	Computer Science and Engineering
EarthCube IA: Optimal	Data Layout for Scalable
	Data-Intensive Environment
\$332,941	NSF
CGV: Small: A Scalable V	isual Analytics Framework
for Exascale Scie	entific Simulations
\$405,378	NSF
Yuen, Gary	Plant Pathology
Genetics and Genomics of Path	nogen Resistance in Switchgrass USDA-ARS through DOE
\$297,132	USDA-AKS tillough DOE
Yuill, David	Durham School of Architectural
rum, buriu	Engineering and Construction
*A Field Study to Chard	icterize Fault Prevalence
	Comfort Systems
\$749,792	DOE
Zamplani Janea	Nutrition and Health Ocionocal
Zempleni, Janos	Nutrition and Health Sciences/ Nebraska Center for the Prevention
	of Obesity-Related Diseases
*Nutritive Value and Potential I	Health Benefits of LOL-Exosomes
\$257,886	Purina Mills
Adamec Iiri Bio	chemistry/Nebraska Center for the
7.444.1100,0111	(a)
Prev	vention of Obesity-Related Diseases
Prev Cui, Juan	vention of Obesity-Related Diseases Computer Science and Engineering/
Prev Cui, Juan	vention of Obesity-Related Diseases
Cui, Juan	vention of Obesity-Related Diseases Computer Science and Engineering/ Nebraska Center for the vention of Obesity-Related Diseases
Cui, Juan	vention of Obesity-Related Diseases Computer Science and Engineering/ Nebraska Center for the vention of Obesity-Related Diseases one MicroRNAs in
Cui, Juan Prev Cui, Juan Roles of Milk-Boi the Regulation of	vention of Obesity-Related Diseases Computer Science and Engineering/ Nebraska Center for the vention of Obesity-Related Diseases The MicroRNAs in Gut Inflammation
Cui, Juan	vention of Obesity-Related Diseases Computer Science and Engineering/ Nebraska Center for the vention of Obesity-Related Diseases The MicroRNAs in Gut Inflammation
Cui, Juan	vention of Obesity-Related Diseases Computer Science and Engineering/ Nebraska Center for the vention of Obesity-Related Diseases The MicroRNAs in Gut Inflammation
Cui, Juan	vention of Obesity-Related Diseases Computer Science and Engineering/
Cui, Juan	vention of Obesity-Related Diseases Computer Science and Engineering/
Roles of Milk-Borthe Regulation of \$499,812 Ramer-Tait, Amanda Zeng, Lirong Role of Organelle-Io Ubiquitination i	vention of Obesity-Related Diseases Computer Science and Engineering/
Roles of Milk-Borthe Regulation of \$499,812 Ramer-Tait, Amanda Zeng, Lirong Role of Organelle-Io Ubiquitination i	vention of Obesity-Related Diseases Computer Science and Engineering/
Roles of Milk-Boot the Regulation of \$499,812 Ramer-Tait, Amanda Zeng, Lirong Role of Organelle-la Ubiquitination i	vention of Obesity-Related Diseases Computer Science and Engineering/
Roles of Milk-Bot the Regulation of \$499,812 Ramer-Tait, Amanda Zeng, Lirong Role of Organelle-la Ubiquitination i \$685,000	vention of Obesity-Related Diseases Computer Science and Engineering/
Roles of Milk-Boot the Regulation of \$499,812 Ramer-Tait, Amanda Zeng, Lirong Role of Organelle-Io Ubiquitination i \$685,000 Zeng, Xiao *Exploration of Low-Dimens \$256,188	vention of Obesity-Related Diseases Computer Science and Engineering/

Zhu, Jinying Civil Engineering
Online Monitoring System for Concrete Structures
Affected by Alkali-Silica Reaction (ASR)
\$800,000 DOE
Zuhlke, Craig Electrical and Computer Engineering
Fundamental Studies on Functionalizing Metallic Surfaces
with Applications to Enhanced Heat Transfer and Drag Reduction;
Novel Power Sources
\$763,265 DoD-Offutt Air Force Base-STRATCOM through
National Strategic Research Institute
Alexander, Dennis Electrical and Computer Engineering
Gogos, George Mechanical & Materials Engineering
lanno, Natale Electrical and Computer Engineering

Early Career Awards

Active awards, July 1, 2018–June 30, 2019

* Indicates new in 2018-2019

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.







Duncan, Brittany
Computer Science and Engineering
CAREER: Drones in Public:
Foundational Interaction Research
\$549,951NSF









Libault, Marc

Agronomy and Horticulture/Center for Plant



Lim, Jung Yul

Mechanical & Materials Engineering
CAREER: Adipocytic Mechanotransduction
for Obesity
\$430,554NSF



Louis, Joe



Males, Lorraine



Montooth, Kristi

Biological Sciences
CAREER: The Physiology and Genetics of
Adaptation in a Complex Environment
\$683,365......NSF



Morin, Stephen





Nebraska Food for Health Center

Complex Carbohydrate Metabolism

*CAREER: Evolutionary Genomics of Enzymes for

\$353,179NSF







Zhang, Limei Biochemistry/Nebraska Center for Redo

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 \$600,000NSF

Air Force Young Investigator Program

YIP awards support scientists and engineers who have received Ph.D. or equivalent degrees in the last five years and show exceptional ability and promise for conducting basic research.



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.



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.



Argyropoulos, Christos

Arts and Humanities Awards \$250,000 or More

Active awards, July 1, 2018-June 30, 2019

* Indicates new in 2018-2019

Cohen, Matt

English/Center for Digital Research in the Humanities



Through a grant from the National Endowment for the Humanities, the existing Charles Chesnutt Digital Archive will be redesigned, and more works by the African-American author will be added. The project, a collaboration between Nebraska and The New School in New York City, is directed at Nebraska by Matt Cohen, professor of English,

and Kenneth M. Price, Hillegass University Professor of Literature and co-director of CDRH. The project is edited by Stephanie Browner of The New School. Chesnutt is a major figure in American literary studies and was a profound thinker about race and justice in the United States. He wrote six book-length works, more than 80 stories, and many essays and speeches during his career.

Heitman, Carolyn

Anthropology/Center for Digital Research in the Humanities



With a \$300,000 National Endowment for the Humanities grant, anthropologist Carrie Heitman is part of a team of researchers who are digitizing about 1.5 million photographs, field notes and other records generated during 1970s and 1980s excavations of the 1,000-year-old Salmon Pueblo in northwestern

New Mexico. The Chaco Research Archive, which Heitman directs, will house the digitized records. Digital access will allow researchers to explore more fully this historically and culturally significant community. Collaborators are the Salmon Ruins Museum, Archaeology Southwest, Nebraska's Center for Digital Research in the Humanities and the University of Virginia's Institute for Advanced Technology in the Humanities, home to the Chaco Research Archive.

Jacobs, Margaret

History/Center for Digital Research in the Humanities



With funding from the National Endowment for the Humanities and the Council on Library and Information Resources, Margaret Jacobs, professor of history and director of the Women's and Gender Studies program, 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.

Jewell, Andrew Center for Digital Research in the Humanities



The National Endowment for the Humanities is supporting the work of Andrew Jewell, professor of University Libraries in the Center for Digital Research in the Humanities, to digitally publish the complete correspondence of Willa Cather on the open-access Willa Cather Archive (cather.unl.edu). Publication on the archive will allow interoperation of the

edition with other Cather documents (photographs, texts, published scholarship and archival materials) and wide accessibility as data for humanities scholars doing various kinds of research. When finished, *The Complete Letters of Willa Cather* will bring unprecedented access to the revealing personal voice of one of the most important figures in American literary history and will dramatically expand the body of Cather materials available to scholars, teachers, students and general readers.

Kooser, Ted English



The Poetry Foundation, in partnership with the Library of Congress, supports the American Life in Poetry Project, an initiative of Ted Kooser, the 2004-2006 Poet Laureate Consultant in Poetry to the Library of Congress. American Life in Poetry is a free weekly column for newspapers and online publications featuring a poem written by a

contemporary American poet, chosen by Kooser, with a brief introduction written by Kooser. The sole mission of this project is to promote poetry. The Poetry Foundation funds the project, with administrative support provided by the English department, where the project office is located.

Lorang, Elizabeth Center for Digital Research in the Humanities



The Image Analysis for Archival Discovery (Aida) research team investigates the use of image analysis to identify, describe and retrieve information from digital libraries and other digitized collections. Using machine learning, Elizabeth Lorang, associate professor of University Libraries, and colleagues in the Center for Digital Research in the Humanities

are building an intelligent computational system that can recognize visual cues in digital images and identify similar content in new images. Digital images created by libraries, archives, museums and other groups represent a largely underutilized digitized cultural record – particularly digital images of textual materials. One goal of the project is to develop a new digital collection using the extracted content.

Price, Kenneth

English/Center for Digital Research in the Humanities



Kenneth Price, Hillegass University Professor of English and co-director of the Center for Digital Research in the Humanities, directs the Walt Whitman Archive, a digital archive that makes Whitman's vast work easily and conveniently accessible to scholars, students, and general readers alike. With support from the National Endowment for the Humanities,

the first edition of *Leaves of Grass*, along with the constellation of draft documents that contributed to it, has been developed into a digital variorum from manuscript and notebook beginnings through its many variations in print. The goal of the project is to advance understanding of this paradigm-shifting book and to enable future scholarship by drawing on some of the opportunities for representation unique to digital editing.

Shear, Donna

University of Nebraska Press

1/3/11 - 12/31/21



This \$781,900 grant from the Andrew W. Mellon Foundation gives the University of Nebraska Press, along with the University of Oklahoma Press and the University of Texas Press, resources to help linguistic scholars publish indigenous language grammars and dictionaries, literacy studies, ethnographies and other linguistic monographs. Twenty-seven

books – nine from each press – will be published on the grammar and literacy of endangered languages. The initiative also aims to generate broader interest in linguistic monographs and to find more efficient, cost-effective ways to produce monographs. These publications are important resources for academics in the fields of linguistics, indigenous studies and social sciences, and to communities wishing to preserve their language and culture, said Donna Shear, University of Nebraska Press director, who is leading this collaboration.

Walter, Katherine

University Libraries/Center for Digital Research in the Humanities



The Nebraska Digital Newspaper Project selects, digitizes and provides access to historically significant Nebraska newspapers, as well as ethnic titles, representing geographic, political, and social breadth. These titles will be accessible through Chronicling America at the Library of Congress and through Nebraska Newspapers, our state newspaper site.

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

Active awards, July 1, 2018–June 30, 2019

^{*} Indicates new in 2018-2019

Barker, Bradley Library Innovation Studios: Transforming Rural Communities \$236,771IMLS through Nebraska Library Commission Boeckner, LindaExtension Farritor, ShaneMechanical & Materials Engineering Hancock, ConniePanhandle Research and Extension Center Narjes, CharlotteAgricultural Economics	
Cohen, Matt English/Center for Digital Research in the Humanities Walt Whitman's Annotations	
\$125,961	
Dawes, Kwame African Poetry Digital Project \$150,000	
Edwards, Richard Center for Great Plains Studies African American Homesteaders Historic Resource Study \$168,274	
Hoff, Michael Art, Art History and Design Antiochia ad Cragum Excavations: 2019 Season \$52,800	
Homestead, Melissa English *The Creative Partnership of Willa Cather and Edith Lewis \$50,400NEH	
Jockers, Matthew English/Center for Digital Research in the Humanities	
Text Mining the Novel: Establishing the Foundations of a New Discipline \$88,233	

Center fo	Institute for Ethnic Studies/History/ er for Digital Research in the Humanities					
*To Enter Africa from America: The United States, Africa and the New Imperialism, 1862-1919 \$216,106						
Richards-Rissetto, Heather	Anthropology/Center for Digital Research in the Humanities					
	Supporting Reuse and Data in the Humanities					
	74,368					
From Prairie to Palace: Buff	r Digital Research in the Humanities alo Bill's Wild West in Europe ough Buffalo Bill Center of the West					

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

Active awards, July 1, 2018–June 30, 2019

^{*} Indicates new in 2018-2019

Dombrowski, KirkSociologyLooking Past Skin: Nebraska Immigration Today and Yesterday\$6,500Humanities NebraskaMatthews, KimSociology	1
James, Michael Textiles, Merchandising and Fashion Design Robert Hillestad Textiles Gallery \$10,000	
Jewell, Andrew Center for Digital Research in the Humanities My Ántonia at 100: The Ongoing Story \$6,930	1
Jones, Patrick The Classroom and the Future of the Historical Record: Humanities Education in a Changing Climate for Knowledge Production \$41,906	1 5
Nicholas, Claire Textiles, Merchandising and Fashion Design Crafting Culture in the Middle of Everywhere: An Arts-Based Project on Intercultural Empathy Building and Entrepreneurship \$9,561	1
Poor, Erin Dance & Dialogue: Expanding Cultural Understanding through Hip Hop \$20,000	١
Price, Kenneth English/Center for Digita Research in the Humanities Fame and Infamy: Walt Whitman's Old-Age Correspondence \$44,181 National Historical Publications and Records Commission through University of lower	3

Shank, Nancy	Public Policy Center
	ds Aloud: A Collective Impact Model
\$15,666Ins	titute of Museum and Library Services through
	Lincoln Community Foundation
Shear, Donna	University of Nebraska Press
	Early American Regions
\$30,100	University of Georgia
Yang, Shuling	Teaching, Learning and Teacher Education
	ing Preschool Teachers to Ask
	vel Questions in Dialogic Reading
\$5,000	International Literacy Association



Pioneering Partnerships for Innovation

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

Patents Issued in 2018-2019

Recognition for faculty and other university personnel who received patents for their inventions July 1, 2018–June 30, 2019

Dennis R. Alexander, Troy P. Anderson, Craig Zuhlke, Sidy Ndao, George Gogos

Electrical and Computer Engineering; Mechanical &

Materials Engineering

Title: Monolithic Heat-transfer Device

Date: 4/23/2019 **Number:** 10267567 **Country:** United States

Mark A. Borden, Benjamin S. Terry

Mechanical & Materials Engineering

Title: System and Methods for Ventilation through a Body Cavity

Date: 11/13/2018 **Number:** 10124126 **Country:** United States

Judith M. Burnfield, Carl A. Nelson, Cale Stolle

Mechanical & Materials Engineering

Title: Biomechanical Foot Guidance Linkage

Date: 4/9/2019 Number: 10252100 Country: United States

Edgar B. Cahoon, Umidjon Iskandarov, Hae Jin Kim, Jillian Collins-Silva

Biochemistry

Title: Novel Acyltransferases and Methods of Using

Date: 5/7/2019 Number: 10280431 Country: United States

Thomas E. Clemente, Edgar B. Cahoon, Hyunwoo Park, Hanh Nguyen

Biochemistry; Agronomy and Horticulture

Title: Method for the Production of High Saturated, Low

Polyunsaturated Soybean Oil

Date: 10/16/2018 **Number:** 10100325 **Country:** United States

Stephen G. DiMagno, Bao Hu

Chemistry

Title: Radioiodinated Compounds

Date: 8/21/2018 Number: 10053423 Country: United States

Date: 3/13/2019 **Number:** 3089962

Countries: France, Netherlands, Italy, Spain, United Kingdom,

Germany, Belgium

Stephen G. DiMagno, Bao Hu

Chemistry

Title: Guanidinium Compounds

Date: 10/30/2018 **Number:** 10112893 **Country:** United States

Shane M. Farritor, Dmitry Oleynikov, Ryan L. McCormick, Tyler Wortman, Eric Markvicka

Mechanical & Materials Engineering; Surgery (UNMC)

Title: Robotic Surgical Devices, Systems and Related Methods

Date: 10/30/2018 **Number:** 10111711 **Country:** United States

Thomas Frederick, Shane M. Farritor, Eric Markvicka, Joe Bartels, Jack Mondry

Mechanical & Materials Engineering

Title: Single Site Robotic Device and Related Systems and Methods

Date: 3/5/2019 Number: 10219870 Country: United States

Craig Herzinger, John A Woollam, Mathias Schubert, Tino Hoffman, Sean Knight, Gregory K. Pribil

Electrical and Computer Engineering

Title: Integrated Vacuum-Ultraviolet Mid, and Near-Ultraviolet, Visible, Near, Mid and Far Infrared and Terahertz Optical Hall Effect

(OHE) Instrument, and Method of Use

Date: 9/11/2018 Number: 10073120 Country: United States

Andrea Holmes, Mathias Schubert, Patrick H. Dussault, Tino Hofmann, Daniel Schmidt. Rebecca Y. Lai

Electrical and Computer Engineering; Chemistry

Title: Optical Sensing and Separation Based on Ordered Three-

dimensional Nanostructured Surfaces

Date: 1/29/2019 **Number:** 10190978 **Country:** United States

Jinsong Huang, Yuchuan Shao, Qingfeng Dong

Mechanical & Materials Engineering

Title: Systems and Methods for Scalable Perovskite Device Fabrication

Date: 1/29/2019 **Number:** 10193092 **Country:** United States

Jinsong Huang

Mechanical & Materials Engineering

Title: Self-powered GHZ Solution-processed Hybrid

Perovskite Photodetectors

Date: 2/5/2019 Number: 10199579 Country: United States

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

Veterinary and Biomedical Sciences; Biological Sciences

Title: A Non-naturally Occurring Porcine Reproductive and Respiratory

Syndrome Virus (PRRSV) and Methods of Using

Date: 9/11/2018 **Number:** 10072046 **Country:** United States

Date: 5/7/2019 **Number:** 2687150 **Country:** Russia

Date: 6/14/2019 **Number:** 6538071 **Country:** Japan

Hao Luo, Hong Jiang, Lei Tian

Computer Science

Title: Enforcing Persistency for Battery-Backed Mobile Devices

Date: 4/30/2019 Number: 10275164 Country: United States

Yongfeng Lu, Yunshen Zhou, Hossein Rabiee Golgir

Electrical and Computer Engineering

Title: Growth of Nitride Films

Date: 3/19/2019 **Number:** 10233544 **Country:** United States

Sally Mackenzie, Yingzhi Xu

Agronomy and Horticulture; Center for Plant Science Innovation

Title: Methods and Compositions for Obtaining Useful Plant Traits

Date: 8/28/2018 Number: 10058044 Country: United States

Sally Mackenzie, Roberto De la Rosa Santamaria

Agronomy and Horticulture; Center for Plant Science Innovation

Title: Plants with Useful Traits and Related Methods

Date: 4/10/2019 **Number:** 2704554

Countries: United Kingdom, Turkey, Spain, Netherlands, Italy,

Germany, France, Belgium

Andrew Marshall, Peter A. Dowben, Nishtha Sharma

Physics and Astronomy

Title: Unipolar Magnetoelectric Magnetic Tunnel Junction

Date: 1/8/2019 Number: 10177303 Country: United States

Kenneth Narva, Kanika Arora, Sarah Worden, Blair Siegfried, Chitvan Khajuria, Ana Maria Velez, Ronda Hamm, Meghan Frey, Nick Storer. Elane Fishilevich

Entomology

Title: Parental RNAi Suppression of Kruppel Gene to Control

Hemipteran Pests *Date*: 8/14/2018 *Number*: 10047374 *Country*: United States

Title: Parental RNAi Suppression of Hunchback Gene to Control

Hemipteran Pests

Date: 8/14/2018

Number: 10047360

Country: United States

Title: Parental RNAi Suppression of Chromatin Remodeling Genes to

Control Coleopteran Pests

Date: 8/21/2018 **Number:** 10053706 **Country:** United States

Sidy Ndao, Mahmoud Elzouka

Mechanical & Materials Engineering

Title: Near-field Heat Transfer Enabled Nanothermomechanical

Memory and Logic Devices

Date: 7/10/2018 **Number:** 10020010 **Country:** United States

Carl A. Nelson, Alan Goyzueta

Mechanical & Materials Engineering

Title: Compliant Surgical Graspers and Methods of Making and Using

Date: 4/9/2019 **Number:** 10251659 **Country:** United States

Wei Niu, Jiantao Guo, Qingsheng Li, Yue Li, Nanxi Wang

Biological Sciences; Chemistry

Title: Live, Attenuated Vaccines and Methods of Making and Using

Date: 6/18/2019 **Number:** 10322172 **Country:** United States

Wei Qiao, Liyan Qu, Ze Wang

Electrical and Computer Engineering

Title: Monitoring Aging of Power Semiconductor Devices Based on

Case Temperature

Date: 5/14/2019

Number: 10288672

Country: United States

Wei Qiao, Taesic Kim, Liyan Qu

Electrical and Computer Engineering

Title: Rechargeable Multi-cell Battery

Date: 5/21/2019 Number: 10297855 Country: United States

Alexander Sinitskii, Alexey Lipatov, Alexei Gruverman

Chemistry; Physics and Astronomy

Title: Memory Device Based on Heterostructures of Ferroelectric and

Two-dimensional Matter Date: 12/25/2018 Number: 10163932 **Country:** United States

Alexander Sinitskii, Jody G. Redepenning, Benjamin Wymore

Chemistry

Title: Polymer on Graphene

Date: 1/29/2019 Number: 10192971 **Country:** United States

Oleg Tchernyshyov, Alexey Kovalev, Kirill Belashchenko

Physics and Astronomy

Title: Magnetoelectric Memory Cells with Domain

Wall-mediated Switching Date: 10/2/2018 Number: 10090034 Country: United States

Benjamin S. Terry, Weston Lewis, Wanchuan Xie, Pengbo Li, Alfred Tsubaki

Mechanical & Materials Engineering

Title: Gastrointestinal Sensor Implantation System

Date: 3/5/2019 Number: 10219748 **Country:** United States

Christopher Y. Tuan, Lim Nguyen

Civil Engineering; Electrical and Computer Engineering

Title: Concrete Mix for Shotcrete Applications for

Electromagnetic Shielding **Date:** 7/24/2018

Number: 10034418 Country: United States

Title: Electrically Conductive Concrete Mix for Electromagnetic (Em)

Ground Plane Date: 4/9/2019 Number: 10256006 **Country:** United States

Harkamal Walia, Dante Placido, Thomas E. Clemente

Agronomy and Horticulture

Title: Sequences Involved in Plant Yield And Methods of Using

Date: 7/31/2018 Number: 10036034 Country: United States

Haosen Wang. Wei Oiao. Livan Ou

Electrical and Computer Engineering

Title: Electromagnetic Power Converter

Date: 5/14/2019 Number: 10290417 **Country:** United States

Donald Weeks, Thomas E. Clemente, Paul C.C. Feng, Stanislaw Flasinski, Razvan Dumitru

Biochemistry; Agronomy and Horticulture

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

Monooxygenase Gene (aka, oxygenaseDIC)

Date: 9/10/2018 Number: 300876 Country: India

2018-2019 License Agreements

Recognition for faculty whose technologies formed the basis of licensing agreements with industry partners July 1, 2018-June 30, 2019

Gary Anderson. Clayton Kelling

Veterinary and Biomedical Sciences

Technology: Cell Line

David Andrews

Agronomy and Horticulture

Technology: Purple Plant Colorant

P. Stephen Baenziger, Mitchell Montgomery, Rich Little, Greg Dorn

Agronomy and Horticulture

Technology: Barley Variety

Technology: Triticale Variety (2 licenses)

P. Stephen Baenziger, Mitchell Montgomery, Greg Dorn

Aaronomy and Horticulture **Technology:** Triticale Variety

P. Stephen Baenziger, Del Dovel, Ben Moreno-Sevilla

Agronomy and Horticulture **Technology:** Triticale Variety

Mark Behrens, Xiao-Zhou Wang, Nedim Mutlu, Patricia Herman, Thomas Clemente, Donald Weeks

Biochemistry; Biological Sciences; Agronomy and Horticulture

Technology: Dicamba Use in Canola

Carrick Detweiler, Ashraful Islam, Adam Houston, Ajay Shankar

Computer Science; Mechanical & Materials Engineering; Earth and Atmospheric Sciences; Computer Science and Engineering

Technology: Sensor Housing

Stephen DiMagno

Chemistry

Technology: Medical Imaging Agents

Achim Dobermann, Daniel T. Walters, Haishun Yang, Kenneth G. Cassman, Patricio Grassini

Agronomy and Horticulture

Technology: Hybrid Maize Software

Achim Dobermann, Daniel T. Walters, Haishun Yang, Kenneth G. Cassman, Tri Setivono

Aaronomy and Horticulture **Technology:** Software

Achim Dobermann, Daniel T. Walters, Haishun Yang, Kenneth G. Cassman, Patricio Grassini

Aaronomy and Horticulture

Technology: Hybrid Maize Software

Vadim N. Gladyshev

Biochemistry

Technology: Expression of Selenoproteins in Cells

George Graef

Agronomy and Horticulture

Technology: Soybean Varieties (4 licenses)

George Graef, Leslie Korte

Aaronomy and Horticulture **Technology:** Soybean Varieties

George Graef, Leslie Korte, Dennis White, Travis Wegner, **James Specht**

Agronomy and Horticulture **Technology:** Soybean Varieties

George Graef, Leslie Korte, Dennis White, Travis Wegner, James Specht, Orlando Zapata, Rebecca Ott, Shawn Jenkins, Tyler Frederick, Aaron Hoagland

Agronomy and Horticulture *Technology:* Soybean Varieties

Ashu Guru, Santosh Pitla, Dipti Dev

4-H Youth Development; Biological Systems Engineering; Child, Youth and Family Studies

Technology: NU Sensi-plate

Jinsong Huang, Qingfeng Dong, Yuchuan Shao

Mechanical & Materials Engineering Technology: Solar Cell Technology

Sally Mackenzie, Robersy Sanchez Rodriguez

Agronomy and Horticulture *Technology:* Plant Epigenetics

Patricia Jan Sollars, Gary Edward Pickard

Veterinary and Biomedical Sciences

Technology: Oncolytic Viruses for the Treatment and Prevention

of Cancer

Stephen Taylor, Joseph Baumert

Food Science and Technology *Technology:* Allergen Kits

Benjamin S. Terry

Mechanical & Materials Engineering *Technology:* Extrapulmonary Ventilation

Christopher Y. Tuan, Lim Nguyen

Civil Engineering; Electrical and Computer Engineering

Technology: Conductive Concrete (2 licenses)

Jens Walter, Robert Hutkins, Thomas E. Burkey

Food Science and Technology; Animal Science

Technology: Prebiotics

Janos Zempleni

Nutrition and Health Sciences

Technology: Milk Exosome Technology

Creative Activity

Faculty who created, performed or produced works in the fine and performing arts and architecture, television and film, or digital/software design, nationally or internationally, July 1, 2018–June 30, 2019

Submitted by faculty, chairs/heads or deans

John Bailey Glenn Korff School of Music

Conductor. International Flute Orchestra. Concert tour of Italy. Churches in Palermo, Sicily; Mosta, Malta; Rome, Italy.

Conductor. NFA Professional Flute Choir. Full concert. National Flute Association annual national convention, Orlando, FL.

Diane Barger Glenn Korff School of Music

Performer, clarinet. "Études Concertantes." Featured recital. ClarinetFest®, International Clarinet Association, Knoxville, TN.

Jamie Bullins Johnny Carson School of Theatre and Film

Scenic designer. "Jam." NET, Nebraska's PBS & NPR Stations, Lincoln, NE.

Costume designer. "Ghastly Dreadfuls." Center for Puppetry Arts, Atlanta, GA.

Scenic designer. "Invasion: Christmas Carol." Dad's Garage Theatre, Atlanta, GA.

Scenic designer. "A Christmas Carol." Theatre Buford, Buford, GA.

Scenic designer. "The Doll Maker's Gift." The Rose Theatre, Omaha. NE.

Scenic designer. "A Streetcar Named Desire." Theatre Buford, Buford. GA.

Wheeler Winston Dixon English/Film Studies

Director. "Wheeler Winston Dixon: From Ancient History to A Hundred Years from Today." Career retrospective. LA Filmforum, the Spielberg Theatre at the Egyptian Cinema, Los Angeles, CA.

Director. "En Route," "Broken Bow," "210 Tests," "Melting Mona Lisa," "Ulysses on the Shore," "I Think I Dont Know." Invited screening. 5th Annual Atrabilious Experimental Film Festival, Filmhuis Cavia, Amsterdam, the Netherlands.

Director. "Wheeler Winston Dixon: Experimental Videos 2019." De Nijverheid Theatre, Utrecht, the Netherlands.

Eddie Dominguez Art, Art History and Design

Artist, ceramics. "Garden of Eden." Solo exhibition. Columbus Museum of Art, Columbus, GA; Everson Museum of Art, Syracuse, NY.

Dana Fritz Art, Art History and Design

Artist, photography. Selections from "Terraria Gigantica." Terraria Gigantica: The World under Glass. Solo exhibition. The Turchin Center for the Visual Arts, Boone, NC.

Artist, photography. Selections from "Terraria Gigantica." Land Use. Stephen Bulger Gallery, Toronto, Canada.

Artist, photography. Selections from "Terraria Gigantica" and "Views Removed." Kalee Appleton and Dana Fritz: New Landscapes. Shircliff Gallery of Art, Vincennes, IN.

Kevin Hanrahan Glenn Korff School of Music

Vocal performer. "New Art Song of the Pacific Rim." CD recording. Wirripang Pty. Ltd., Sydney, Australia.

Nathan Koch Glenn Korff School of Music

Performer, bassoon. "Sonata for Piano and Violin in A Major" (trans. Koch). Solo performance. Conference of the International Double Reed Society, University of South Florida, Tampa, FL.

Tom Larson Glenn Korff School of Music

Composer, producer. "Focus." Digital recording. Recorded at Studio Dedé, Tokyo, Japan.

JD Madsen Johnny Carson School of Theatre and Film

Scenic designer. "The Wedding Singer." Next Stop Theatre Company, Herndon, VA.

Scenic designer. "Legally Blonde." Catholic University of America, Washington, D.C.

Scenic designer. "Beauty and the Beast." Riverside Center for the Performing Arts, Fredericksburg, VA.

Scenic designer. "Grand Concourse." Prologue Theatre Company, Arlington, VA.

Scenic designer. "Into the Light: An Immersive Choral Experience." Washington Choral Arts Society, Washington, D.C.

Zachary Tate Porter Architecture

Artist, architecture. "Topographic Survey of Two Sidewalk Holes." Digital drawing exhibition. Drawing for the Design Imaginary. Carnegie Museum of Art, Pittsburgh, PA.

Artist, architecture. "Topographic Survey of Two Sidewalk Holes." Drawing Attention: The Digital Culture of Contemporary Architectural Drawings. Roca Gallery, London, UK.

Guy Reynolds Cather Project, Program of Excellence/English

Director, orchestra. "Prairie Songs: Remembering Ántonia." Lincoln Symphony Orchestra, Lincoln, NE.

Kaci Richter Visual Communications/Broadcasting

Vocal narrator. "Terrorism, Betrayal, and Resilience: My Story of the 1998 U.S. Embassy Bombings" by Prudence Bushnell. Audiobook. Audible, Lincoln, NE.

Colleen Syron Art, Art History & Design

Designer, poster. "Rural Addiction." Curated social justice poster exhibition. Good Apple Awards: For All of Us. Livestock Exchange Building, Omaha, NE.

William G. Thomas III History

Developer, with the Center for Digital Research in the Humanities. "O Say Can You See: Early Washington, D.C., Law, and Family." Online database. University of Nebraska, Lincoln, NE.

Writer, co-producer. "Anna." Animated short film. BronzeLens Film Festival, Atlanta, GA; Virginia Film Festival, Charlottesville, VA; Utopia Film Festival, Greenbelt, MD; Hip Hop Film Festival, New York, NY; New Media Film Festival, Los Angeles, CA [Best Animation]; Hampton University Film Festival, Hampton, VA.

Sandra Williams Art, Art History and Design

Artist, cut paper. "Wild Things: Nature and the Social Imagination." Exhibition. Len G. Everett Gallery, Monmouth College, Monmouth, IL.

Adrian Wisnicki

English/Center for Digital Research in the Humanities

Director, with J. Livingstone. "Livingstone's Missionary Travels Manuscript (1857) – A Critical Edition." Livingstone Online (https://www.livingstoneonline.org/).

Director, with J. McDonald. "Livingstone's Manuscripts in South Africa (1843–1872) – A Critical Edition." Livingstone Online (https://www.livingstoneonline.org/). University of Maryland Libraries, College Park, MD.

Director, with M. Ward. "Livingstone's 1870 Field Diary and Select 1870–1871 Manuscripts – A Multispectral Critical Edition." Livingstone Online (https://www.livingstoneonline.org/). University of Maryland Libraries, College Park, MD.

Rnnks

Faculty who wrote or edited books published July 1, 2018–June 30, 2019
Submitted by faculty, chairs/heads or deans

Marco Abel English

Editor, with Christina Gerhardt. *Celluloid Revolt: German Screen Cultures and the Long 1968*. Rochester, NY: Camden House.

Kristen M. Blankley Law

Author, with Maureen A. Weston, Jill I. Gross, Stephen Huber. Arbitration: Law, Policy, and Practice. Durham, NC: Carolina Academic Press.

Dawn O. Braithwaite Communication Studies

Author, with Kathleen Galvin, Paul Schrodt, Carma Bylund. *Family Communication: Cohesion and Change, 10th edition.* New York, NY: Routledge.

Eve M. Brank

Center on Children, Families, and the Law/Psychology

Author. *The Psychology of Family Law.* New York, NY: New York University.

Amy N. Burnett History

Author. Debating the Sacraments: Print and Authority in the Early Reformation. New York, NY: Oxford University Press.

David Cahan History

Author. Hemholtz: A Life in Science. Chicago, IL: University of Chicago Press.

Jennine Capó Crucet English

Author. My Time Among the Whites: Notes from an Unfinished Education. New York, NY: Macmillan Publishers.

Terence J. Centner Agricultural Economics/Law

Author. Consumers, Meat and Animal Products: Policies, Regulations and Marketing. Abingdon, UK: Routledge.

Rochelle Dalla Child, Youth and Family Studies

Editor, with Donna Sabella. *Routledge International Handbook of Human Trafficking: A Muliti-Disciplinary and Applied Approach*. New York, NY: Routledge/Taylor & Francis.

Bedross Der Matossian History

Editor, with Suleiman A. Mourad, Naomi Koltun-Fromm. *Routledge Handbook on Jerusalem.* New York, NY: Routledge.

Editor, with Barlow Der Mugrdechian. Western Armenian in the 21st Century: Challenges and New Approaches. Fresno, CA: The Press at California State University.

Wheeler Winston Dixon English/Film Studies

Author. Synthetic Cinema: The 21st Century Movie Machine. New York, NY: Palgrave Macmillan.

Iker González-Allende Modern Languages and Literatures

Author. Hombres en Movimiento: Masculinidades Españolas en los Exilios y Emigraciones, 1939-1999 (Men in Motion: Spanish Masculinities in Exiles and Migrations, 1939-1999). West Lafayette, IN: Purdue University Press.

Editor, with José Ángel Ascunce Arrieta. El Mundo Está en Todas Partes: La Creación Literaria de Bernardo Atxaga (The World Is Everywhere: The Literary Creation of Bernardo Atxaga). Barcelona, Spain: Anthropos.

Mark A. Griep Chemistry

Author, with Bev DeVore-Wedding, Janyce Woodard, Hank Miller. Lab Manual for Connecting Chemistry to the Tribal Community: Two Semesters of Chemistry Experiments and Teachings. Lincoln, NE: Keeper's Cottage Press.

Editor, with Linette Watkins. Best Practices for Chemistry REU Programs. Washington, D.C.: American Chemical Society Press.

Mark A. Hinchman Interior Design/Architecture

Author, with Elyssa Yoneda. *Interior Design Masters*. London, UK: Routledge.

Kristen Hoerl Communication Studies

Author. The Bad Sixties: Hollywood Memories of the Counterculture, Antiwar, and Black Power Movements. Jackson, MS: University Press of Mississippi.

Gabriel A. Houck English

Author. You or a Loved One. Asheville, NC: Orison Press.

Robert Hutkins Food Science and Technology

Author. Microbiology and Technology of Fermented Foods. London, England: Wiley.

Katrina Jagodinsky History

Editor. Beyond the Borders of the Law: Critical Legal Histories of the North American West. Lawrence, KS: University Press of Kansas.

Kenneth A. Kiewra Educational Psychology

Author. Nurturing Children's Talents: A Guide for Parents. Santa Barbara, CA: ABC-CLIO.

Marjorie J. Kostelnik Child, Youth and Family Studies

Author, with A. K. Soderman, A. P. Whiren, M. L. Rupiper (UNL). *Guiding Children's Social Development, 9th edition.* Boston, MA: Cengage Learning.

Author, with A. K. Soderman, A. P. Whiren, M. L. Rupiper (UNL). Developmentally Appropriate Curriculum: Best Practices in Early Childhood Education. New York, NY: Pearson.

Richard Leiter Schmid Law Library

Author. National Survey of State Laws, 8th edition. Buffalo, NY: William S. Hein & Co., Inc.

Suping Lu University Libraries

Editor. 忍辱负重的使命 — 美国外交官记载的南京大屠杀与劫后的社会状况 (A Mission under Duress). Nanjing, China: Jiangsu People's Publishing House.

Colleen E. Medill Law

Author. Introduction to Employee Benefits Law: Policy and Practice, 5th edition. St. Paul, MN: LEG, Inc., dba West Academic.

Chigozie Obioma English

Author. An Orchestra of Minorities. New York, NY: Little Brown and Co.

David L. Olson Supply Chain Management and Analytics

Author, with Majid Nabavi (UNL). *Introduction to Business Analytics*. New York, NY: Business Expert Press.

Author, with Georg Lauhoff. *Descriptive Data Mining, 2nd edition.* Singapore: Springer Nature.

Yi Oian Electrical and Computer Engineering

Author, with Haipeng Yao, Chunxiao Jiang, Yi Qian. *Developing Networks Using Artificial Intelligence*. Cham, Switzerland: Springer.

Brett Ratcliffe Entomology/ University of Nebraska State Museum

Author. A Monographic Revision of the Genus Gymnetis MacLeay, 1819 (Coleoptera: Scarabaeidae: Cetoniinae). Lincoln, NE: University of Nebraska State Museum.

Patricia A. Simpson Modern Languages and Literatures

Editor, with Elisabeth Krimmer. Realities and Fantasies of German Female Leadership: From Maria Antonia of Saxony to Angela Merkel. Rochester. NY: Camden House.

Gerald J. Steinacher

History

Author, with Ari Cohen (UNL). *Unlikely Heroes: The Place of Holocaust Rescuers in Research and Teaching*. Lincoln, NE: University of Nebraska Press.

Alison G. Stewart Art, Art History, and Design

Editor, with Miriam H. Kirch, Birgit Ulrike Münch. *Crossroads. Frankfurt am Main and the Art Market in Early Modern Europe.* Petersberg, Germany: Imhof Verlag.

Jay Storz Biological Sciences

Author. Hemoglobin: Insights into Protein Structure, Function, and Evolution. New York, NY: Oxford University Press.

Walter W. Stroup Statistics

Author, with George A. Milliken, Elizabeth A. Claassen, Russell D. Wolfinger. SAS for Mixed Models: Introduction and Basic Applications. Cary, NC: SAS Institute, Inc.

Jordan Stump Modern Languages and Literatures

Translator. *The Barefoot Woman* by Scholastique Mukasonga. Brooklyn, NY: Archipelago Books.

Alexander Vazansky History

Author. An Army in Crisis: Social Conflict and the U.S. Army in Germany, 1968–1975. Lincoln, NE: University of Nebraska Press.

Isabel Velázquez Modern Languages and Literatures

Author. Household Perspectives on Minority Language Maintenance and Loss: Language in the Small Spaces. Bristol, UK: Multilingual Matters.

Adrian Wisnicki

English/Center for Digital Research in the Humanities

Author. Fieldwork of Empire, 1840–1900: Intercultural Dynamics in the Production of British Expeditionary Literature. New York, NY: Routledge.

Recognitions and Honors

Faculty who have been elected to honor academies or who have received national or international honors or awards July 1, 2018–June 30, 2019

Submitted by faculty, chairs/heads or deans

Brian Larkins Agronomy and Horticulture/ Emeritus Associate Vice Chancellor for Life Sciences

National Academy of Sciences

James Van Etten Plant Pathology

National Academy of Sciences

Marco Abel English

Berlin Prize, American Academy in Berlin

John Clark Archer Geography/Center for Great Plains Studies

E. Willard and Ruby S. Miller Award, American Association of Geographers

Nonfiction Reference Award Winner, 2018 Book Awards Competition, Nebraska Center for the Book

Jack Arterburn Panhandle Research and Extension Center

Top 10 Industry Leaders under Age 40, Cattle Business Weekly

Stacy Asher and Aaron Sutherlen Art, Art History and Design

50 Books/50 Covers Award, American Institute of Graphic Arts

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

Callier Prize for Outstanding Scientific Achievement, Callier Center, University of Texas – Dallas

Paul N. Black Biochemistry

Fellow, American Association for the Advancement of Science

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

Outstanding Teaching and Mentoring Award, American Psychology-Law Society

Brent Cejda Educational Administration

Senior Scholar Award, Council for the Study of Community Colleges

Bertrand S. Clarke Statistics

Fellow, Institute of Mathematical Statistics

Deb Cosgrove Accountance

Outstanding Faculty Advisor Award, Beta Alpha Psi

Andrea S. Cupp Animal Science

President, Society for the Study of Reproduction

Rochelle L. Dalla Child. Youth and Family Studies

Outstanding Professional Publication Award–Families and Health, National Council on Family Relations

Kwame Dawes English

Windham-Campbell Prize, Yale University's Beinecke Rare Book and Manuscript Library

Jeffrey L. Day Architecture/Landscape Architecture

Progressive Architecture Award, Architect Magazine

Fellow, American Institute of Architects

Maria Rosario T. de Guzman Child. Youth and Family Studies

Ursula Gielen Global Psychology Book Award, American Psychological Association

Leslie Delserone University Libraries

Editor-in-chief, Journal of Agricultural and Food Information

Ken Dewey Geography and Natural Resources

Public Education Award, National Weather Association

Judy Diamond University of Nebraska State Museum

Outstanding Administrative Support Award, National Science Education Leadership Association

Robert Diffendal Natural Resources/ University of Nebraska State Museum

Lifetime Achievement Award, Sun Yat-Sen University

Eric Einspahr College of Education and Human Sciences

Excellence in Advising Award, National Academic Advising Association

Helen Fagan Agricultural Leadership, Education and Communication/Rural Futures Institute

Paul Harris Fellow, Rotary International

Tracy D. Frank Earth and Atmospheric Sciences

Fulbright Scholarship Award, Ireland, Council for International Exchange of Scholars

Sheri Fritz Earth and Atmospheric Sciences

Israel C. Russell Award in Limnogeology, Geological Society of America

Kurt F. Geisinger

Educational Psychology/ Buros Center for Testing

President, International Test Commission

Edmund T. Hamann Teaching, Learning, and Teacher Education/ Anthropology

Fulbright Scholarship Award, Mexico, Council for International Exchange of Scholars

David G. Imig Distinguished Service Award, Carnegie Project on the Educational Doctorate

Jane Hanson Programs in English as a Second Language

President's Lifetime Achievement Award, Mensa Foundation

Carrie Heitman Anthropology/Center for Digital Research in the Humanities

President, Council for Museum Anthropology

Susan Hermiller Mathematics

Fellow, American Mathematical Society

Chuck Hibberd Animal Science/Extension

2019 Inductee, National Institute of Food and Agriculture Hall of Fame

Kristen Hoerl Communication Studies

Best Book Award for 2018, American Studies Division of the National Communication Association

Gabriel A. Houck

Creative Writing Fellow in Fiction, Emory University

Jan Hygnstrom Agronomy and Horticulture

English

Professional Recognition Award, American Association of Pesticide Safety Educators

Suat Irmak Biological Systems Engineering

Three Educational Aids Blue Ribbon publications awards, American Society of Agricultural and Biological Engineers (ASABE)

Educational Aids Blue Ribbon Award for educational website (with Aaron Nygren, Jenny Rees, Brandy VanDeWalle and Gary Zoubek, Extension), ASABE

Margaret Jacobs History

Member, American Academy of Arts and Sciences

Katrina Jagodinsky History

Jack and Nancy Farley Distinguished Visiting Scholar in History, Simon Fraser University

Paul Jasa Biological Systems Engineering/Extension

Harold and Kay Scholl Excellence in Conservation Award, Soil and Water Conservation Society

Dipra Jha Nutrition and Health Sciences

Doctor Honoris Causa, Kyiv Cooperative Institute of Business and Law, Ukraine

John Wiley & Sons Innovation in Teaching Award, International Council on Hotel. Restaurant and Institutional Education

Amit Jhala Agronomy and Horticulture

Award of Merit in Extension, Gamma Sigma Delta

Outstanding Associate Editor Award, Canadian Journal of Plant Science

Jeannette Eileen Jones Ethnic Studies/ History

Fellow, American Council of Learned Societies

Alice Kang Political Science/Ethnic Studies

Best Paper Award, European Journal of Politics and Gender

Wendy J. Katz Art, Art History and Design

Mellon Fellow, Reynolda House Museum of American Art, Wake Forest University, North Carolina

Casey R. Kelly Communication Studies

Karl R. Wallace Memorial Award, National Communication Association

Richard Leiter Schmid Law Library

Roy M. Mersky Spirit of Law Librarianship Award for Public Service, American Association of Law Libraries

Yijia Lin Finance

Co-editor, North American Actuarial Journal

Michael Lippman Classics and Religious Studies

Award for Excellence in Teaching of the Classics at the College Level, Society for Classical Studies

Amanda Morales Teaching, Learning, and Teacher Education

Fellow, American Association of Hispanics in Higher Education

Rodney Moxley Veterinary Medicine and Biomedical Sciences

Honorary Diplomate, American College of Veterinary Microbiologists

ThanhVu Nguven Computer Science and Engineering

Most Influential Paper Award, International Conference on Software Engineering

Chigozie Obioma English

Shortlist, Booker Prize for Fiction for *An Orchestra of Minorities,* The Booker Prize Foundation

Clyde Ogg Extension

Fellow Award, American Association of Pesticide Safety Educators.

Angela K. Pannier Biological Systems Engineering

2017 Presidential Early Career Awards for Scientists and Engineers, White House Office of Science and Technology Policy

Ellen Paparozzi Agronomy and Horticulture

Pi Alpha Xi Fellow, American Society for Horticultural Science

Peng Peng Special Education and Communication Disorders

2018 Early Career Award for Contributions to Research, International Dyslexia Association

Suzette Person Computer Science and Engineering

Test of Time Award, ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering

Al Peterson Mathematics

Bernd Aulbach Prize, International Society of Difference Equations

Laura Poppo Management

Dan and Mary Lou Schendel Best Paper Prize, Strategic Management Society

Yi Oian Electrical and Computer Engineering

Fellow, Institute of Electrical and Electronics Engineers (IEEE)

Distinguished Technical Achievement Recognition Award, IEEE Technical Committee on Green Communications and Computing

Outstanding Service Award, IEEE Communications and Information Security Technical Committee

Editor-in-chief. IEEE Wireless Communications

Gil Renberg Classics and Religious Studies

Charles J. Goodwin Award of Merit, Society for Classical Studies

James Schnable Agronomy and Horticulture

Early Career Scientist Award, North American Plant Phenotyping Network

Wendy Smith Cent

Center for Science, Mathematics and Computer Education

Don Miller Distinguished Service Award, Nebraska Association of Teachers of Mathematics

Francisco Souto Art, Art History and Design

Individual Artist Fellowship in Visual Arts, Nebraska Arts Council

Marilyne Stains Chemistry

Presidential Early Career Award for Scientists and Engineers, National Science Foundation

Rising Star Award, American Chemical Society Women Chemists Committee

Joe Starita

Journalism and Mass Communications

Sower Award in the Humanities, Humanities Nebraska

Jav Storz

School of Biological Sciences

Fulbright Scholarship Award, Argentina, Council for International Exchange of Scholars

Rvan P. Sullivan

Law

Pro Bono Leader Award, American Bar Association

Colleen Syron

Art. Art History and Design

Honorable Mention, Poster Design, Graphis Design Annual 2020

Honorable Mention, Online Advertising, Neptune Award for Excellence in Marine Marketing Communications, Marine Marketers of America

Silver Medal, Best Poster, American Institute for Graphic Arts

Kim Todd

Agronomy and Horticulture

Arborvitae Award, Lauritzen Gardens

Richard Torraco

Educational Administration

Elwood F. Holton III Research Excellence Award, *Human Resource Development Review*

Can Vuran

Computer Science and Engineering

Top 10 Most Downloaded Articles, *Ad Hoc Networks Journal* (with Suat Irmak, Biological Systems Engineering, Rigoberto Wong and Abdul Salam)

Judy Walker

Mathematics

Fellow, Association for Women in Mathematics

Robert "Bob" Wilhelm

Office of Research and Economic Development

Fellow, National Academy of Inventors

Tyler Williams

Extension

Achievement Award, National Association of County Agricultural Agents

David Wishart

Geography

Nonfiction Reference Award Winner, 2018 Book Awards Competition, Nebraska Center for the Book

Adrian Wisnicki

English/Center for Digital Research in the Humanities

Seal from Committee on Scholarly Editions for Livingstone's Manuscripts in South Africa (1843-1872), Modern Language Association

Seal from Committee on Scholarly Editions for Livingstone's 1870 Field Diary and Select 1870-1871 Manuscripts, Modern Language Association

Charles Wortmann

Agronomy and Horticulture

International Agronomy Award, American Society of Agronomy

Brenda Wristen

Glenn Korff School of Music

Outstanding Music Alumna, Lubbock Christian University

Janos Zemoleni

Nutrition and Health Sciences

Osborne and Mendel Award 2019, American Society for Nutrition

Xiao Cheng Zeng

Chemistry

Fellow, Materials Research Society

Glossary of Federal Agency Abbreviations

				EPA	Environn	nental Protectio
	DHS	Department of Homeland Security		EPSCoR	Establish	ned Program to
	DHHS	Department of Health and Human Services		IMLS	Institute	of Museum an
		ACF	Administration for Children and Families	NASA	National	l Aeronautics a
		CDC NIOSH	Centers for Disease Control National Institute for Occupational Safety	NCHRP	National	Cooperative H
		MOSH	and Health	NEA		l Endowment fo
		SAMHSA	Substance Abuse and Mental Health	NEH		I Endowment fo
			Services Administration	NIH		Institutes of H
	DOC	Departm NIST NOAA	ent of Commerce National Institute of Standards and Technology National Oceanic and Atmospheric Administration	INIT	FIC NCI NHLBI	Fogarty Inter National Can National Hea
	DoD	Departm AFOSR	ent of Defense Air Force Office of Scientific Research		NIAAA	National Inst
		ARO DTRA	Army Research Office Defense Threat Reduction Agency		NIAID	National Inst Infectious Dis
		DURIP	Defense University Research Instrumentation Program		NIBIB	National Inst and Bioengin
		MDA MURI	Missile Defense Agency Multidisciplinary University Research Initiatives		NICHD	National Inst Human Deve
		ONR	Office of Naval Research		NIDA	National Inst
		SERDP	Strategic Environmental Research and Development Program		NIDCD	National Inst Communicati
		STRATCOM	U.S. Strategic Command		NIDDK	National Inst
1	DOE	Departm	ent of Energy			Kidney Disea
		ARPA-E NETL	Advanced Research Projects Agency-Energy National Energy Technology Laboratory		NIGMS NIMH	National Inst National Inst
	DOI	Departm	ent of Interior	NSF	National	Science Found
		FWS	Fish and Wildlife Service	USAID	United S	tates Agency fo
		GS NPS	Geological Survey National Park Service	USDA	United S	tates Departm Agriculture a
	DOJ	Departm NIJ	ent of Justice National Institute of Justice		ARS Agricultural F	
	DOT	Departm FHWA FRA PHMSA	ent of Transportation Federal Highway Administration Federal Railroad Administration Pipeline and Hazardous Materials Safety Administration		FS NASS NIFA NRCS OCE	Forestry Serv National Agr National Inst Natural Reso Office of the

ED Department of Education IES Institute of Education Sciences Environmental Protection Agency ГDΛ o Stimulate Competitive Research nd Library Services and Space Administration Highway Research Program for the Arts for the Humanities Health ernational Center incer Institute eart, Lung and Blood Institute stitute on Alcohol Abuse titute on Allergy and iseases titute of Biomedical Imaging stitute of Child Health and elopment stitute on Drug Abuse stitute on Deafness and ition Disorders stitute of Diabetes, Digestive and stitute on General Medical Sciences stitute of Mental Health dation for International Development ment of Agriculture and Food Research Initiative Research Service utrition Service vice ricultural Statistics Service



Every effort has been made to verify the accuracy and completeness of submissions. Faculty, department chairs and heads and the deans were invited to submit entries online regarding published books, national and international recognitions and creative works in the fine and performing arts and architecture. Information on major sponsored program awards was gathered by the Office of Sponsored Programs. Reports on license agreements were produced by NUtech Ventures.

The University of Nebraska does not discriminate based upon any protected status. See go.unl.edu/nondiscrimination. ©2019, The Board of Regents of the University of Nebraska. All rights reserved.

