Undergraduate Student Poster Session

UNL Research Fair
April 14-15, 2015

Office of Research and Economic Development and Office of Graduate Studies
University of Nebraska–Lincoln
Special thanks to the Pepsi Endowment Committee for their generous support of the UCARE Program.

On the Cover: The cover photo shows the target chamber of the University of Nebraska-Lincoln’s Diocles Laser. The burst of light results from laser light interacting with nitrogen gas, which produces an electron beam. Using this powerful, compact laser, UNL Extreme Light Laboratory scientists discovered a way to vastly shrink the space needed to produce synchrotron X-rays, expanding the potential uses for these high-quality X-rays. This major breakthrough and the opening of a collaborative laser lab that houses a new specialty laser called Archimedes are advancing UNL’s capabilities in laser science, a longtime research strength.
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2015 Undergraduate Research Conference
Poster Session
April 15, 2015
3:30 - 5:00 p.m.
Nebraska Union

Arts and Humanities

1. Ruth Barankevich  
   Major: Interior Design  
   Research Area: Architecture  
   History of Tomorrow  
   Research Advisor: Peter Olshavksy

2. Dana McIntyre  
   Major: Art  
   Research Area: Architecture  
   The Arts and Crafts Movement in London, England  
   Research Advisor: Peter Olshavsky

3. Kaylyn Neverve  
   Major: Landscape Architecture  
   Research Area: Architecture  
   Concrete Habitat  
   Research Advisor: Sarah Thomas Karle

4. Charles Weak  
   Major: Architecture  
   Research Area: Architecture  
   Investigative Mapping  
   Research Advisor: Brian Kelly

5. Emma deVries  
   Majors: Art and Anthropology  
   Research Area: Art and Art History  
   Cross-Generational Museum: Engaging Audiences in the 21st Century  
   Research Advisor: Sandra Williams

6. Kourtney Klein  
   Major: Classics and Religious Studies  
   Research Area: Classics and Religious Studies  
   Influence of the Early UNL Classics Department  
   Research Advisor: Mary Ellen Ducey

7. Michaela Montgomery  
   Major: Religious Studies  
   Research Area: Classics and Religious Studies  
   Transcribing Medieval Latin Manuscripts  
   Research Advisor: Stephen Lahey
8 Kirsten Clawson  
Major: English  
Research Area: English  
*Digital Literary Archives and Electronic Publishing in the Twenty-first Century*  
Research Advisor: Kenneth Price  

9 Alex Kinnaman  
Major: English  
Research Area: English  
*Cultural Hegemony of American Indian Youth: An Examination of Student Publications at Carlisle Indian Boarding School*  
Research Advisor: Amanda Gailey  

85 Jessica Vazquez, Dominic Lincoln, Daniel McEowen  
Majors: English, Spanish, and Film Studies  
Research Area: English  
*The Revolutionary Moment of 1968 and its Aftermath*  
Research Advisor: Marco Abel  

10 Joshua Doeden  
Majors: German, Global Studies, and Political Science  
Research Area: Modern Languages and Literature  
*Foreign Vocabulary in the 21st Century*  
Research Advisor: Christina Branter  

11 Adoni Faxas  
Majors: Latin American Studies and Business Management  
Research Area: Modern Languages and Literature  
*Family Letters: an Analysis of the Personal Correspondence of a Mexican American Family in Western Colorado and Eastern Nebraska in the First Half of the 20th Century*  
Research Advisor: María Isabel Velázquez  

12 Bryan Howard  
Major: English  
Research Area: Theatre Arts & Film  
*Clytemnestra's Revenge: The Female Avenger in Contemporary Film*  
Research Advisor: Ian Borden  

Education  

13 Lee Kreimer  
Majors: Global Studies and Spanish  
Research Area: Child, Youth and Family Studies  
*Family and Motherhood Among Female Sex Workers in Mumbai*  
Research Advisor: Rochelle Dalla  

14 Halle Miller  
Major: Nutrition Science  
Research Area: Child, Youth and Family Studies  
*Parental Efficacy in Parents of Preschool Children with Identified Needs*  
Research Advisor: Lisa Knoche
15 Rebekah Whitham  
Major: Secondary Education  
Research Area: Child, Youth and Family Studies  
*Impact of Professional Development on Inquiry Skills Demonstration*  
Research Advisor: Gina Kunz

16 Chelsea Kubicek, Madison Healy, Logan Husa  
Research Area: Special Education and Communication Disorders  
*Predictions of Infant Communication Risk Before 12 Months: ISCBS Group Outcomes at 3 Years*  
Research Advisor: Cynthia Cress

17 Claire Mollak  
Major: Speech-Language Pathology and Audiology  
Research Area: Special Education and Communication Disorders  
*The Role of Cognition in Saccade Testing*  
Research Advisor: Julie Honkaker

18 Kelsey Moreland, Jadee White  
Research Area: Special Education and Communication Disorders  
*Structures: Teaching 4th and 5th Grade Struggling Readers About Expository Text*  
Research Advisor: Michael Hebert

19 Anna Petersen  
Major: Speech-Language Pathology and Audiology  
Research Area: Special Education and Communication Disorders  
*The Getting Ready Project: A Descriptive Study of Parent-Reported Home Activities and Behaviors in One and Two-Parent Households*  
Research Advisor: Christine Marvin

20 Chelsey Wehrmann  
Major: Speech-Language Pathology and Audiology  
Research Area: Special Education and Communication Disorders  
*The Getting Ready Project: A Descriptive Study of Parent-Reported Home Activities and Behaviors in English-Speaking and Spanish-Speaking Homes*  
Research Advisor: Christine Marvin

21 Shannon Feagin  
Major: Elementary Education  
Research Area: Teaching, Learning and Teacher Education  
*Pre-service Teacher Knowledge of Learning Technologies*  
Research Advisor: Krista Adams

22 Emily Manning  
Major: Family and Consumer Science Education  
Research Area: Teaching, Learning and Teacher Education  
*FCS Teachers as Experts*  
Research Advisor: Edmund Hamann
23  Michael Castle  
  Major: Agricultural Economics  
  Research Area: Agricultural Economics  
  *Analysis of Precision Technology and Data Usage in Nebraska Agriculture*  
  Research Advisor: Brad Lubben

24  Danielle Buschkoetter  
  Major: Communication Studies  
  Research Area: Community and Regional Planning  
  *Lincoln Community Assessment Project*  
  Research Advisor: Yunwoo Nam

25  Brian Barmettler  
  Major: History and Political Science  
  Research Area: History  
  *On His Own: Alvin Johnson’s Rescue Efforts for Jewish Refugees, 1938-1945*  
  Research Advisor: Gerald Steinacher

26  Melani Hagge  
  Majors: History and Classical Languages  
  Research Area: History  
  *Digital Analysis of Dependency Syntax: Literary Features of Greek Murder Orations*  
  Research Advisor: Vanessa Gorman

27  Andrew Singleton  
  Major: History  
  Research Area: History  
  *Re-Investigation of Ideological Colonial America*  
  Research Advisor: James Coltrain

28  Stuart Uram  
  Major: Landscape Architecture  
  Research Area: Landscape Architecture  
  *Sustainable Green Roof Media*  
  Research Advisor: Richard Sutton

29  Marissa Curtiss  
  Majors: English and Economics  
  Research Area: Law  
  *Barriers to Care: Transgender Individuals and Access to Medical Care*  
  Research Advisor: Beth Burkstrand

30  Melissa Baker  
  Major: Psychology  
  Research Area: Political Science  
  *Uncertainty, Threat and Changes in Executive Function*  
  Research Advisor: Ingrid Haas
Alexandria Curttright  
Major: Political Science  
Research Area: Political Science  
*A Comparison of Lone Wolf Terrorism in the USA and Israel*  
Research Advisor: Kevin Smith

Alyssa Meyer  
Major: Nutrition Science  
Research Area: Political Science  
*Perceived Threat Associated with Police Officers and Black Men Predicts Support for Policing Policy Reform*  
Research Advisor: Ingrid Haas

Kianna Moore  
Majors: Political Science, French, and Global Studies  
Research Area: Political Science  
*From the Other Side of the Border: Public Opinion in Mexico Regarding American Politics*  
Research Advisor: Sergio Wals

Sarah O’Neill  
Majors: Political Science and Global Studies  
Research Area: Political Science  
*Examining the Impact of the International Criminal Court*  
Research Advisor: Courtney Hillebrecht

Abigail Ashby  
Major: Psychology  
Research Area: Psychology  
*Understanding Mood and Anxiety Disorders: Differences in Predictability and Risk Factors of Depression and Trait Anxiety*  
Research Advisor: Calvin Garbin

Logan Beutler  
Major: Psychology  
Research Area: Psychology  
*Does emotion regulation mediate a relationship between TPH2 (rs4570623) genotype and political orientation?*  
Research Advisor: Scott Stoltenberg

Courtney Brasee  
Major: Psychology  
Research Area: Psychology  
*Eyewitness memory using eye tracking*  
Research Advisor: Brian Bornstein

Kaylor Caldwell  
Major: Psychology  
Research Area: Psychology  
*The Effect of Environment on Consent to Search Decisions*  
Research Advisor: Eve Brank
38 Andrea Clark, Megan Manheim  
Research Area: Psychology  
Gender is associated with diet preoccupation but CNR1 (rs2180619) genotype is not  
Research Advisor: Scott Stoltenberg

39 Ellen Dudley  
Major: Psychology  
Research Area: Psychology  
A Vicious Cycle Between Alcohol, Objectification, and Violence: Effects of Alcohol Beverage Presence on Men’s Objectification and Dehumanization of Women  
Research Advisor: Sarah Gervais

40 Arianna Dye  
Majors: Psychology and Spanish  
Research Area: Psychology  
Mind the Gap: Relationships Between Stereotype Threat, Mindfulness, and Women’s Math Performance  
Research Advisor: Calvin Garbin

41 Sydney Gaylor  
Major: Psychology  
Research Area: Psychology  
Motivations for Employment Based Exclusion  
Research Advisor: Cynthia Willis-Esqueda

42 Denae Giles  
Major: Psychology  
Research Area: Psychology  
Predicting Loneliness Across Genders: A Path Analysis  
Research Advisor: Cal Garbin

43 Kassie Guenther  
Major: Psychology  
Research Area: Psychology  
Asthma as a Predictor of School Dropout Rates and Poor Peer Relations in Youth in Residential Care  
Research Advisor: Timothy Nelson

44 Marco Gullickson  
Major: Psychology  
Research Area: Psychology  
How Do Women “Balance” Objectification? The Effects of Body Sentiment and Valence of the Objectification Experience on Source Sentiment  
Research Advisor: Sarah Gervais

45 Ryan Kirkpatrick  
Major: Psychology  
Research Area: Psychology  
False memories and motivation: What is lost when we prioritize information?  
Research Advisor: Robert Belli
46 Jordan Kugler, Terrence Huit, Hanna Grandgenett
Research Area: Psychology
The Role of Peer and Parental Relationships on Internalizing Symptom Presentation Following Child Sexual Abuse
Research Advisor: David Hansen

47 Samantha Lauf
Major: Psychology
Research Area: Psychology
Predicting Political Involvement through Demographics, General Involvement and Political Interest
Research Advisor: Calvin Garbin

48 Joanne Lin
Major: Biochemistry
Research Area: Psychology
Aripiprazole Sensitization: From Adolescence to Adulthood in the Conditioned Avoidance Response Model
Research Advisor: Ming Li

49 Andrew McGrath
Major: Psychology
Research Area: Psychology
Experimental Procedures Associated with a Telehealth Alcohol Intervention
Research Advisor: Dennis McChargue

50 Andrew McGrath
Major: Psychology
Research Area: Psychology
Easing the Transition to College: New College Students and Trait Anxiety
Research Advisor: Cal Garbin

51 Andrea Meinders
Major: Psychology
Research Area: Psychology
Sex differences in working memory of college athletes: An electrophysiological study
Research Advisor: Dennis Molfese

52 Jennifer Milliman
Major: Psychology
Research Area: Psychology
The Effects of Blame-Based Health Policy
Research Advisor: Eve Brank

53 Alia Noetzel
Major: Psychology
Research Area: Psychology
Childhood trauma, but not FKBP5 rs1360780 genotype, is associated with behavioral disengagement
Research Advisor: Scott Stoltenberg
54 Carmen Ochoa, Danielle Schutz  
Major: Psychology  
Research Area: Psychology  
Experience of childhood trauma moderates the association between OPRM1 (rs1799971) genotype and risky drinking  
Research Advisor: Scott Stoltenberg

55 Alex O’Donnell, Shannon Cooney  
Research Area: Psychology  
Determining Correlates Between False Memory Paradigms: Does the DRM and Picture-Word Source Monitoring Task Predict Imagination and Observation Inflation?  
Research Advisor: Robert Belli

56 Amber Olson, Kayla Hoechner, Jennifer Bosn, Emily Franzen  
Research Area: Psychology  
Development of Categorical Biases in Spatial Recall and Recognition Memory  
Research Advisor: Anne Schutte

57 Olivia Reinert-Gehman  
Major: Psychology  
Research Area: Psychology  
The Effect of Visual Task on Eye Fixation  
Research Advisor: Mike Dodd

58 Marisa Ruwe, Zachary Kwapnoski  
Research Area: Psychology  
Parental Monitoring Moderates the Association Between SLC6A4 (5-HTTLPR rs25531) Genotype and Alcohol Problems  
Research Advisor: Marisa Ruwe

59 Holly Smith, Tyler Stading  
Research Area: Psychology  
Does Gender Moderate OXTR and AVPR Genotype Effects on Aggression?  
Research Advisor: Scott Stoltenberg

60 Elia Soto  
Majors: Psychology and Biochemistry  
Research Area: Psychology  
Using ERP to Assess Executive Control and Basic Cognitive Skills in Typically Developing Young Children and Those at Risk for ADHD  
Research Advisor: Jennifer Mize Nelson

61 Raegan Thomas  
Major: Psychology  
Research Area: Psychology  
State Anxiety: Internal and External Predictors  
Research Advisor: Calvin Garbin
62 Kaitlin Kueny  
Major: Biochemistry  
Research Area: Sociology  
*Peer Influence on Risk Taking*  
Research Advisor: Jacob Cheadle

63 Vicki Liu  
Major: Biochemistry  
Research Area: Sociology  
*When Pro-Diversity Media Backfires: Threats to Social Power or Majority Status Increase Implicit Racial Bias*  
Research Advisor: Jacob Cheadle

64 Daniel Schaefer  
Major: Sociology  
Research Area: Sociology  
*A Network Analysis Approach To Understanding Behavioral Profiles*  
Research Advisor: Jacob Cheadle

65 Casey Schwee  
Major: Psychology  
Research Area: Sociology  
*Increased Activation of LPC and FN400 Due to Triadic Closures in Social Networks*  
Research Advisor: Jacob Cheadle

66 Amanda Timm  
Majors: Sociology and Psychology  
Research Area: Sociology  
*Having a Lasting Impact: The Effects of Interviewer Errors on Data Quality*  
Research Advisors: Kristen Olson and Jolene Smyth

Agricultural and Life Sciences

67 Kevin Hanna  
Major: Microbiology  
Research Area: Agronomy and Horticulture  
*Elucidating Sub 1A-Mediated Submergence Tolerance using Transgenic Approaches*  
Research Advisor: Harkamal Walia

68 Shelby Gardine  
Major: Animal Science  
Research Area: Animal Science  
*Digestibility and Nutrients of Corn Residue*  
Research Advisor: Terry Klopfenstein

69 Morgan Kaiser  
Major: Animal Science  
Research Area: Animal Science  
*Cecum Cannulated Pig Model to Investigate the Human Microbiota Through Inter-Species Transfer of Gut Microbiota From Humans to Pigs*  
Research Advisor: Samodha Fernando
87 Mary Klosterman  
Major: Biological Sciences  
Research Area: Animal Science  
*Gut Microbe and Mammal Host Comparison and Co-evolution*  
Research Advisor: Samodha Fernando

80 Maci Lienemann  
Major: Animal Science  
Research Area: Animal Science  
*Functional Genomics Investigation of Coat Color in Domestic Yaks*  
Research Advisor: Jessica Petersen

71 Cameron Menard  
Major: Animal Science  
Research Area: Animal Science  
*Production of Transgenic Mice Harboring Splice Variants of the GnRH-II Receptor Gene*  
Research Advisor: Brett White

88 Makala Muller  
Major: Animal Science  
Research Area: Animal Science  
*Characterization of microbial community structure during Salmonella shedding in beef cattle*  
Research Advisor: Samodha Fernando

72 Kelsey Timme  
Major: Animal Science  
Research Area: Animal Science  
*Effects of a High Fat Diet on Ovarian Gene Expression and Follicle Growth of C57BL/6 Mice*  
Research Advisor: Jennifer Wood

73 Eleanor Wagner  
Major: Animal Science  
Research Area: Animal Science  
*Corn Residue Digestibility*  
Research Advisor: Jim MacDonald

74 Sara Christianson  
Major: Biochemistry  
Research Area: Biochemistry  
*Role of protease Oma1 in mitochondria-nucleus stress communication*  
Research Advisor: Oleh Khalimonchuk

75 Amanda Hare, Emma Blank  
Research Area: Biochemistry  
*Gibson Assembly for Cloning Mouse and Rat HARE*  
Research Advisor: Edward Harris

76 Haley Haskett  
Major: Biochemistry  
Research Area: Biochemistry  
*AtDJ1C Interacting Proteins in Chloroplast Biogenesis*  
Research Advisor: Julie Stone
77 Paolla Linhares  
Major: Chemical Engineering  
Research Area: Biochemistry  
*Characterization of Saccharomyces cerevisiae Knockout Strains in Fatty Acid Transport and Traffick*  
Research Advisor: Jing Zhang

78 Justin Oltman  
Major: Biochemistry  
Research Area: Biochemistry  
*Acid Dehydration as Method to Quantitate Algal Starch*  
Research Advisor: Paul Black

79 Boqiang Tu  
Major: Biochemistry  
Research Area: Biochemistry  
*Transcriptome Analysis of Chlamydomonas reinhardtii Treated with Lipid-inducing Small Molecules*  
Research Advisor: Concetta DiRusso

80 Katherine Connell  
Majors: Biological Sciences and German  
Research Area: Biological Sciences  
*T follicular cells in secondary lymphatic tissues of SIV-infected Rhesus macaques*  
Research Advisor: Qingsheng Li

81 Jaquelin Garcia  
Major: Biochemistry  
Research Area: Biological Sciences  
*Phospholipid Uptake in Saccharomyces cerevisiae*  
Research Advisor: Wayne Riekhof

82 Riley Giesler  
Major: Biochemistry  
Research Area: Biological Sciences  
*Expression and Isolation of dCTP Deaminase*  
Research Advisor: Catherine Chia

83 Matthew Hahn  
Major: Veterinary Science  
Research Area: Biological Sciences  
*The Effects of Sex on Song Discrimination By Nestling Sparrows*  
Research Advisor: Daizaburo Shizuka

84 Elizabeth Hruska  
UNMC College of Nursing  
Research Area: Biological Sciences  
*Optimization of Differentiation in Mouse N2A cells*  
Research Advisor: Paul Blum

90 Zachary Kwapnoski  
Major: Biochemistry  
Research Area: Biological Sciences  
*Epstein-Barr Virus Switches in Latency*  
Research Advisor: Luwen Zhang
91 Collin Mach  
Major: Microbiology  
Research Area: Biological Sciences  
Archaeal Vesicles Promote Survival in Oligotrophic Environments  
Research Advisor: Paul Blum

92 Yizi Mao  
Major: Biological Sciences  
Research Area: Biological Sciences  
Computational Model of B Cell Receptor IgM Introduced B Cell Signaling Inside B Cells by the Cell Collective  
Research Advisor: Yizi Mao

93 Alicia Rogers  
Major: Biological Sciences  
Research Area: Biological Sciences  
Understanding the Role of Antibodies on Kaposi’s Sarcoma-Associated Herpesvirus Replication in Recently Infected Zambian Children  
Research Advisor: Charles Wood

94 Abigail Wegehaupt  
Majors: Biological Sciences and German  
Research Area: Biological Sciences  
Female assessment of the reliability of male mating signals in Gryllus lineaticeps  
Research Advisor: William Wagner

95 Courtney Brozek  
Major: Dietetics  
Research Area: Food Science and Technology  
Determination of Optimal Extraction Methods for Phenolic Compounds from Cranberry Beans using Response Surface Methodology  
Research Advisor: Vicki Schlegel

96 Xinyao Wei  
Major: Food Science and Technology  
Research Area: Food Science and Technology  
Effect of Salt Content and Moisture on Dielectric Properties of Mashed Potato  
Research Advisor: Jeyamkondan Subbiah

97 Katherine Lagerstrom  
Major: Microbiology  
Research Area: Microbiology  
The Involvement of Calmodulin in Plant Immunity to Pseudomonas syringae  
Research Advisor: Jim Alfano

98 Colin Chatterton  
Major: Environmental Restoration Science  
Research Area: Natural Resource Sciences  
Modeling the 3D Influence of Slow-Release Oxidant Candles  
Research Advisor: Steven Comfort
99 Catherine Finkenbiner  
Major: Water Science  
Research Area: Natural Resource Sciences  
Advancing the Cosmic-ray Neutron Method  
Research Advisor: Trenton Franz

100 Jessica Powell  
Major: Water Science  
Research Area: Natural Resource Sciences  
Using Oxidative Removal Techniques to Remediate Androgenic Waters  
Research Advisor: Steve Comfort

101 Carolyn Reiland-Smith  
Major: Fisheries and Wildlife  
Research Area: Natural Resource Sciences  
Comparison of Tail Regeneration in Hemidactylus  
Research Advisor: Dennis Ferraro

102 Jenna Schweiss, Rebecca Grosskurth, Whitney Drahota  
Research Area: Natural Resource Sciences  
Uncovering Barriers to Sustainable Behavior  
Research Advisor: Lisa Pennisi

103 Sarah Spier  
Major: Fisheries and Wildlife and Environmental Studies  
Research Area: Natural Resource Sciences  
The Effect of Urbanization on the Anti-predator Response of Fox Squirrels  
Research Advisor: TJ Fontaine

104 Morgan Mallisee  
UNMC College of Nursing  
Research Area: Nursing  
Using Mixed Methods to Understand Exercise Adherence in a Sample of Standard Care Heart Failure Patients  
Research Advisor: Kathy Duncan

105 Elizabeth Ripa  
UNMC College of Nursing  
Research Area: Nursing  
A Pilot Study Comparing Self-reported Exercise to Objective Measures in Patients with Heart Failure Participating in the HEART Camp Trial  
Research Advisor: Kathy Duncan

106 Rachel Huston  
Majors: Nutrition Science and Pre-Chiropractic  
Research Area: Athletic Performance  
Coulda, shoulda, woulda?: A correlational study of mental toughness and regrets in athletes  
Research Advisor: Leilani Madrigal
107 Brenda Berns  
Major: Nutrition, Exercise, and Health Sciences  
Research Area: Nutrition and Health Sciences  
*Impact of Nutrition Interventions among College Students: A Literature Review*  
Research Advisor: Lisa Franzen-Castle

108 Noel Bruner  
Major: Nutrition Science  
Research Area: Nutrition and Health Sciences  
*Acetate Metabolism and Lipid Disorder*  
Research Advisor: Regis Moreau

109 Leslie Evans  
Major: Dietetics  
Research Area: Nutrition and Health Sciences  
*Native Americans and Fruit and Vegetable Intake*  
Research Advisor: Julie Albrecht

110 Kallie Heath  
Major: Dietetics  
Research Area: Nutrition and Health Sciences  
*So much food, so little time: How healthy are your dining options on and near campus?*  
Research Advisor: Lisa Franzen-Castle

111 Jessie Miller  
Majors: Nutrition Science and Pre-Medicine  
Research Area: Nutrition and Health Sciences  
*Muscle Size and Strength Responses after Four Weeks of 80% versus 30% 1RM Resistance Training to Failure*  
Research Advisor: Joel Cramer

112 Candace Sorden  
Major: Dietetics  
Research Area: Nutrition and Health Sciences  
*Convenience Stores On and Off Campus: Where are the Healthier Options?*  
Research Advisor: Lisa Franzen-Castle

113 Noelle Yeo  
Major: Nutrition, Exercise, and Health Science  
Research Area: Nutrition and Health Sciences  
*Differences in Acute Muscle Swelling of the Rectus Femoris and Vastus Lateralis after Three Sets to Failure at 80% versus 30% 1RM Resistance Exercise*  
Research Advisor: Joel Cramer

114 Kathryn Cornwell  
Major: Biochemistry  
Research Area: Plant Pathology  
*Investigating nutrient acquisition by the rice blast fungus Magnaporthe oryzae during infection*  
Research Advisor: Richard Wilson
115 Vinicius Garnica
Major: Agronomy
Research Area: Plant Pathology
Effect of Foliar Insecticides on Soybean Cyst Nematode (Heterodera glycines) Reproduction
Research Advisor: Loren Giesler

116 Charles Solomon
Major: Microbiology
Research Area: Plant Pathology
Cloning the type III effector gene inventory from the bacterial soybean pathogen Pseudomonas syringae pv. glycinea
Research Advisor: Jim Alfano

117 Fatimah Barnawi
Major: Chemical Engineering
Research Area: Veterinary Medicine and Biomedical Sciences
Isolation and Characterization of Mycobacterium smegmatis murI Mutants Suggest the Existence of a New Pathway of D-glutamate Biosynthesis
Research Advisor: Raul Barlletta

118 Jiahui Li
Majors: Biological Sciences and Biochemistry
Research Area: Veterinary Medicine and Biomedical Sciences
Neuroscience Parkinson Disease
Research Advisor: Rodrigo Franco Cruz

119 Meghan O’Callaghan
Major: Veterinary Science
Research Area: Veterinary Medicine and Biomedical Sciences
2014 Calving Distribution Pilot Study
Research Advisor: Dale Grotelueschen

120 Ashley Stelling
Major: Biological Sciences
Research Area: Virology
Immunogenicity of the Novel Biomaterials Protein Resilin
Research Advisor: Deborah Brown

Engineering

121 Dana Anderson
Major: Architectural Engineering
Research Area: Architectural Engineering
Structural Frame Analysis of a Roman Temple Façade
Research Advisor: Ece Erdogmus

122 Brenna Boyd
Major: Architectural Engineering
Research Area: Architectural Engineering
Evaluation of Crowd Noise at College Hockey Games
Research Advisor: Lily Wang
123 Ellie Ahlquist, Mason Spilinek, Madison Burger
Research Area: Biological Systems Engineering
*In Vivo Testing of Noninvasive ICP Monitoring Methodology*
Research Advisor: Greg Bashford

124 Jared Beyersdorf
Major: Biological Systems Engineering
Research Area: Biological Systems Engineering
*High Throughput Screening of Pharmacological Agents for Ability to Modify Nonviral Gene Delivery in Mammalian Cells*
Research Advisor: Angela Pannier

125 Julia Burchell
Major: Biological Systems Engineering
Research Area: Biological Systems Engineering
*Development of Sensor-based System for Greenhouse Plant Monitoring*
Research Advisor: Deepak Keshwani

126 Melissa Kesterson
Major: Mechanical Engineering
Research Area: Biological Systems Engineering
*Spray Droplet and Deposition Technology Assessment for Improving Pesticide Application*
Research Advisor: Joe Luck

127 Mallory Morton
Major: Biological Systems Engineering
Research Area: Biological Systems Engineering
*Effects of Extreme Hydrometeorological Events on Land Surface Hydrology in the Platte River Basin: Assessing Sources of Predictability*
Research Advisor: Francisco Munoz-Arriola

128 Daniel Rico
Major: Electrical Engineering
Research Area: Biological Systems Engineering
*Toward a Drought Seasonal Forecast in the Platte River Basin*
Research Advisor: Francisco Munoz-Arriola

129 Tiffany Riffle
Major: Biological Systems Engineering
Research Area: Biological Systems Engineering
*Classification of Weed Species using Computer Taxonomy and Machine Vision*
Research Advisor: George Meyer

130 David Francis
Major: Chemical Engineering
Research Area: Chemical and Biomolecular Engineering
*Engineering Lipid Nanoparticles to Target and Treat Metastatic Breast Cancer*
Research Advisor: Srivatsan Kidambi
131 Ryan Wood  
Major: Chemical Engineering  
Research Area: Chemical and Biomolecular Engineering  
*Transesterification of Triglycerides with Ethanol*  
Research Advisor: Hossein Noureddini

132 Hillary Stoll  
Major: Biological Systems Engineering  
Research Area: Civil Engineering  
*The Biocidal Capabilities of Graphene Oxide-Coated Filters for Treating Drinking Water*  
Research Advisor: Xu Li

133 Gregory Atkin  
Majors: Computer Science and Mathematics  
Research Area: Computer Science and Engineering  
*Applying Machine Learning to Improve Data Quality on the American Time Use Survey*  
Research Advisor: Leen-Kiat Soh

89 Maanas Varma Datla, Spencer Kulwicki  
Research Area: Computer Science and Engineering  
*Operationalizing Automatic Poem Identification in Archival Newspapers*  
Research Advisor: Leen-Kiat Soh

134 Jacob Greenwood  
Majors: Computer Engineering and Electrical Engineering  
Research Area: Computer Science and Engineering  
*Design of an Underwater Sensing System with Charging and Depth Adjustment Capabilities*  
Research Advisor: Carrick Detweiler

135 Spencer Landis  
Major: Computer Engineering  
Research Area: Computer Science and Engineering  
*Computer Vision Analysis of Platte Basin Timelapse Project*  
Research Advisor: Ashok Samal

136 Timothy Adams  
Major: Civil Engineering  
Research Area: Construction Engineering & Management  
*Construction Equipment Activity Recognition Using Smart Phone Technology*  
Research Advisor: Changbum Ahn

137 Adam Aldana  
Major: Mechanical Engineering  
Research Area: Mechanical and Materials Engineering  
*Patterned Morphology and Properties of Semicrystalline Polymers Through Local Temperature Control*  
Research Advisor: Lucia Fernandez-Ballester
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<th>ID</th>
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<td>140</td>
<td>Nathaniel Matz</td>
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<td>Than Nguyen</td>
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<td>Patrick Beardslee</td>
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<td>Michael Callahan</td>
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<td>Jiantao Guo</td>
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<td>Schuyler Chambers</td>
<td>Chemistry</td>
<td>Chemistry</td>
<td>Preparations of Fatty Acid Analogs Incorporating Reactive Peroxides</td>
<td>Patrick Dussault</td>
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146 Carly Faller  
Major: Biochemistry  
Research Area: Chemistry  
*Genetically incorporated vinyl sulfide for various bioorthogonal reactions*  
Research Advisor: Carly Faller

147 Xin Gao  
Major: Chemical Engineering  
Research Area: Chemistry  
*Physical and Chemical Properties of MnxSn1-xO2 Macro-scale Solid Solutions*  
Research Advisor: Marjorie Langell

148 Elli Kaufmann  
Major: Biochemistry  
Research Area: Chemistry  
*Free Fraction Analysis by Displacement Assay Based on High Performance Affinity Chromatography*  
Research Advisor: David Hage

149 William Lambert  
Major: Chemistry  
Research Area: Chemistry  
*The bioorthogonal click reaction of amphiphilic cyclobutenes and 1,2,4,5-tetrazines*  
Research Advisor: Patrick Dussault

150 Nhat Nguyen  
Major: Biochemistry  
Research Area: Chemistry  
*Bottom up Synthesis Graphene Nanoribbon*  
Research Advisor: Alexander Sinitkii

151 Hope Npimnee  
Majors: Biochemistry and Political Science  
Research Area: Chemistry  
*Protein Labeling Through the Use of a Photo-Controlled Bioorthogonal Chemical Reaction*  
Research Advisor: Jiantao Guo

152 Maria Podariu  
Major: Chemistry  
Research Area: Chemistry  
*Analysis of Free Drug Fractions in Human Serum by Ultrafast Affinity Extraction*  
Research Advisor: David Hage

153 Tyler Reeson  
Major: Chemistry  
Research Area: Chemistry  
*Design, Structure, and Photophysical Properties of Novel Octacarboxy Porphyrin Ligands based Metal Organic Frameworks*  
Research Advisor: Jian Zhang
Molly Undersander
Majors: Geology and Music
Research Area: Chemistry
Probing Question Order Effect in Chemistry Concept Inventories
Research Advisor: Marilyne Stains

Jessica Viegas
Major: Chemical Engineering
Research Area: Chemistry
Hydrothermal Synthesis and Crystal Growth of Nanostructured Cerium Oxide
Research Advisor: Barry Chin Li Cheung

Justin Elwonger
Major: Geology
Research Area: Earth and Atmospheric Sciences
Public Understanding of Risks Posed by Geologic Hazards
Research Advisor: Leilani Arthurs

Bailey Lathrop
Major: Geology
Research Area: Earth and Atmospheric Sciences
Effects of Ice Age Climate on the Evolution of Utah’s Canyons
Research Advisor: David Loope

Jacob Petr
Major: Meteorology-Climatology
Research Area: Earth and Atmospheric Sciences
Assessing Climate Change Impacts and Resiliency in the Greater Horn of Africa Utilizing the Community Capitals Framework
Research Advisor: Deborah Bathke

Alex Schueth
Major: Mechanical Engineering
Research Area: Earth and Atmospheric Sciences
An examination of systematic changes in the atmospheric boundary layer within thunderstorm outflows using in situ data recorded by an unmanned aircraft system
Research Advisor: Adam Houston

Jordan O’Neal, Austin Schulte
Research Area: Physics & Astronomy
Manipulation of Beams of Ultra-relativistic Electrons to Create Femtosecond X-ray Pulses
Research Advisor: Matthias Fuchs
Catie Finkenbiner  School of Natural Resources
Advisor: Trenton Franz
American Geophysical Union Student Paper
American Geophysical Union

Jennifer Milliman  Psychology
Advisor: Eve Brank
Sally W. Dixon Education Fund Scholarship
CONFERENCE PRESENTATIONS

Melissa Baker  
Advisor: Ingrid Haas  

Kaylor Caldwell  
Advisor: Eve Brank  

Celeste Labedz  
Advisor: German Prieto  

Jennifer Milliman  
Advisor: Eve Brank  

Amanda Timm  
Advisors: Kristen Olson, Jolene Smyth  
“Having a lasting impact: The effect of interviewer errors on data quality.” Presented at Midwest Association for Public Opinion Research (MAPOR), Chicago, IL: November 21-22, 2014

Molly Undersander  
Advisor: Marilyne Stains  
“Probing the Question Order Effect on Chemistry Concept Inventories.” Presented at 249th ACS National Meeting and Exposition, Denver, CO: March 22-26, 2015
CREATIVE ACTIVITY

Emma DeVries  Art & Art History
Advisor: Sandra Williams
Graphic designer and researcher, Learning Guides.
International Quilt Study Center and Museum, Lincoln, NE.
March 2015.

Michael Johnson  Art & Art History
Advisor: Sandra Williams
Writer and designer, A Cross-Generational Museum.
International Quilt Study Center and Museum, Lincoln, NE.
March 2015.
Jared Beyersdorf  Biological Systems Engineering
Advisor: Angela Pannier
Co-Author, with Timothy Martin, Dr. Beata Wysocki, Dr. Tadeusz Wysocki, and Dr. Angela Pannier (2014).
“Integrating Mitosis, Toxicity, and Transgene Expression in a Telecommunications Packet-Switched Network Model of Lipoplex-Mediated Gene Delivery.”
*Biotechnology and Bioengineering*, 111 (8).

Kathryn Cornwell  Plant Pathology
Advisor: Richard Wilson
“Plant defense suppression is mediated by a fungal sirtuin during rice infection by Magnaporthe oryzae.”
*Molecular Microbiology*. Doi: 10.1111/mmi.12743

Every effort has been made to verify the accuracy and completeness of submissions. We apologize for any omissions or errors in this report.