Graduate Student Poster Session

Sponsored by NUtech Ventures

UNL Research Fair
April 14-15, 2015

Office of Research and Economic Development and Office of Graduate Studies
University of Nebraska–Lincoln
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.
## 2015 Graduate Student Poster Session Participants

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# 2015 Graduate Research Conference

**Poster Session**  
April 14, 2015  
3:30 - 5:00 p.m.  
Nebraska Union

## Arts and Humanities

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<td>1</td>
<td>Daniel Clausen</td>
<td>English</td>
<td><em>Moby-Dick: The Whale as Oil</em></td>
<td>Tom Lynch</td>
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<td>Melissa King</td>
<td>Music</td>
<td><em>Up With Gravity: A New Method for Self-Study of The Alexander Technique</em></td>
<td>John Bailey</td>
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<td>Lynda Laird</td>
<td>Music</td>
<td><em>Choir Member Empathy and Attitudes Toward Disability: A Preliminary Mixed Methods Exploration of an Inclusive, Intergenerational Choral Music Experience</em></td>
<td>Rhonda Fuelberth</td>
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## Education

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<td>5</td>
<td>Anh Do, Shen Qin, Sarah Taylor</td>
<td>Child, Youth and Family Studies</td>
<td><em>Religious Influences on Key Qualities to a Successful Marriage: A World Values Study</em></td>
<td>Yan Ruth Xia</td>
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<td>Aileen Garcia</td>
<td>Child, Youth and Family Studies</td>
<td><em>Relations among Filipino Mothers’ Time Spent Playing with their Children and Children’s Prosocial Behavior and Academic Performance</em></td>
<td>Maria Rosario de Guzman</td>
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<td>7</td>
<td>Car Mun Kok</td>
<td>Child, Youth and Family Studies</td>
<td><em>The Family Mealtime Study: Parental Socialization During Family Mealtimes</em></td>
<td>Julia Torquati</td>
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</tbody>
</table>
8  **Amanda Prokasky, Molly Holmes, Carly Champagne**  
Child, Youth and Family Studies  
*Asking the right questions can give a bigger picture of toddler sleep*  
Advisor: Victoria Molfese

9  **Nathan Taylor**  
Child, Youth and Family Studies  
*Attachment, conflict, and physiological recovery from couple conflict*  
Advisor: Richard Bischoff

10  **Carly Champagne**  
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*Young Children’s Implicit Beliefs about Intelligence*  
Advisor: Kathleen Rudasill

11  **Lanyan Ding**  
Educational Psychology  
*The Effects of Peer Relationship, Gender, and Drinking Purposes in Alcohol Flushing Reaction in China*  
Advisor: Eric Buhs

12  **Scott Frohn, Ibrahim Acar, Sam Perez**  
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*Teacher Sensitivity and the Link between Difficult Temperament and Childhood Social Adjustment*  
Advisor: Kathleen Moritz Rudasill

13  **Yage Guo**  
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*Cross-cultural comparison of the Principal Perceptions and school factors affecting students’ achievement in mathematical literacy: Based on the multilevel analysis of PISA 2012*  
Advisor: Kurt Geisinger

14  **Meredith Hope**  
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*The impact of school attachment and religious engagement on victimized adolescents’ adjustment*  
Advisor: Eric Buhs

15  **Kenji Madison**  
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16  **Jayden Nord, Scott Frohn, Amanda Prokasky**  
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17 Steven Svoboda
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18 Elizabeth Timberlake
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19 Andrew White
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20 Mingying Zheng
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21 Najia Zulfiqar
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22 Alaina Bassett
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Advisor: Julie Honaker

23 Jessie Patterson, Anna Bullerman
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Examining Effects of Fatigue Following Physical Exertion on Dynamic Visual Acuity Test in Athletes
Advisor: Julie Honaker

24 Diana Weissbeck
Special Education and Communication Disorders
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Advisor: Stephen Boney

25 Qizhen Deng
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Advisor: Guy Trainin
26 Lyrica Lucas  
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Advisor: Elizabeth Lewis

85 Rick Marlatt  
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Advisor: Kathleen Wilson

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Advisor: Elizabeth Lewis

86 Guieswende Rouamba  
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Advisor: Mario Scalora

30 Lixin Ren  
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Advisor: Carolyn Pope Edwards

31 Brandi Woodell  
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Advisor: Christina Falci
Madhav Bhatta  
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*Seeding rate, genotype, and nitrogen effect on yield and end-use quality of winter wheat*  
Advisor: Teshome Regassa

Niegel La Borde  
Agronomy and Horticulture  
*Identification of Early Season Cold Tolerance QTLs*  
Advisor: Ismail Dweikat

Margarita Marroquin-Guzman  
Agronomy and Horticulture  
*GATA-dependent glutamine metabolism links cAMP/ cPKA- and TOR-signaling pathways to drive appressorium formation by Magnaporthe oryzae*  
Advisor: Richard Wilson

Leah Ruff  
Agronomy and Horticulture  
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Advisor: George Graef

Kanokwan Teingtham  
Agronomy and Horticulture  
*Identification and Mapping of Biomass-Related QTLs in Sweet Sorghum*  
Advisor: Ismail Dweikat

Amy Desaulniers  
Animal Science  
*Production of a GnRHR-II Knockdown Swine Line*  
Advisor: Brett White

Jennifer Catlett  
Biochemistry  
*Interspecies Electron Transfer within the Human Gut*  
Advisor: Nicole Buan

George Grady  
Biochemistry  
*Manipulation of UDP-Glucose Dehydrogenase (UGDH) Structure and Function by Small-Molecule Regulation and Unnatural Amino Acid Photocrosslinking*  
Advisor: Melanie Simpson

Hae Jin Kim, Tara Nazarenus  
Biochemistry  
*Implementation of Synthetic Biology for Next-Generation Biofuel Crop Improvement*  
Advisor: Edgar Cahoon

Michelle Palmer  
Biochemistry  
*Structural and Functional Characterization of the Novel Glutathione Degrading Enzyme ChaC1*  
Advisor: Joseph Barycki
41 Maria Florez-Cuadros  
Enteromology  
Automated sensor of cattle behavior in stable fly infestations  
Advisor: David Taylor

42 Suresh Varsani  
Enteromology  
MIR1 dependent maize defense against aphids  
Advisor: Joe Louis

43 Mei Lu  
Food Science and Technology  
Immunological and Proteomic Analysis of Proteins from Three Soybean Lines Were Tested to Identify Proteins Commonly Bound by IgE from Sensitized Subjects  
Advisor: Richard Goodman

44 Shreya Sahasrabudhe  
Food Science and Technology  
Development of Small-Scale Bench-Top Method for Corn Quality Analysis  
Advisor: David Jackson

45 Ashley Cleveland, Amanda Robine, Rachel Sinley, Kelsey Strehlow, Mia Wood  
Nutrition and Health Sciences  
Vegetable Consumption and the Smarter Lunchroom Movement  
Advisor: Zainab Rida

46 Elisha Hall  
Nutrition and Health Sciences  
Self-Efficacy is Associated with Healthy Eating Behaviors for Fifth Grade Students  
Advisors: Weiwen Chai and Julie Albrecht

47 Inhae Kang  
Nutrition and Health Sciences  
Ellagic acid supplementation attenuates sucrose-induced obesity and metabolic complications in C57BL/6 mice  
Advisor: Soonkyu Chung

48 Kathryn Painter, Kyla Richardson, Dustin Stegen, Katie Jones  
Nutrition and Health Sciences  
National School Breakfast Week Marketing Intervention  
Advisor: Linda Boeckner

49 Adarsh Gupta  
Plant Pathology  
Viral suppressors of RNA silencing in Wheat mosaic virus (WMoV)  
Advisors: Satyanarayana Tatineni and Gary Hein
50  Raquel Rocha  
Plant Pathology  
*Magnaporthe oryzae: Links between fungal glucose metabolism and pathogenicity*  
Advisor: Richard Wilson

51  Alissa Anderson  
School of Biological Sciences  
The Benefits of Tying up Your Mate  
Advisor: Eileen Hebets

52  Maggi Sliwinski  
School of Natural Resources  
*Does a Variety of Grazing Systems Across Multiple Ranches Result in Greater Landscape Heterogeneity in the Nebraska Sandhills?*  
Advisor: Larkin Powell

53  Govardhan Rathnaiah  
School of Veterinary Medicine and Biomedical Sciences  
*Comparative analysis of IS1096- and Himar1- derived transposon insertion sites in Mycobacterium avium subsp. paratuberculosis*  
Advisor: Raul Barletta

Nebraska Center for Energy Sciences Research

54  Jared Aldridge, Sean Carr  
Biochemistry  
*Conversion of CO2 and carbonates to methane and (bio)isoprene*  
Advisor: Nicole Buan

55  Tyler Johnson, Deepak Rudrappa  
Biological Sciences  
*Co-synthesis of bioenergy proteins: Path towards sustainable energy production*  
Advisor: Paul Blum

56  Christopher Marin  
Chemistry  
*Valorization of Carbon Dioxide to Organic Carbonates with Cerium Oxide*  
Advisor: Barry Chin Li Cheung

57  Elena Echeverria Mora  
Physics and Astronomy  
*Neutron Detection Signatures at Zero Bias in Novel Semiconducting Boron Carbide Containing Pyridine Polymers*  
Advisors: Peter Dowben and Axel Enders

58  Tsz Him Lo  
Biological Systems Engineering  
*Preliminary Quantification of Variable Rate Irrigation’s Benefits*  
Advisor: Derek Heeren
59 Keith Miller  
Biological Systems Engineering  
*Managing Available Water Differences With Increasing Levels of Variable Rate Irrigation*  
Advisor: Joe Luck

60 Ting Dai  
Electrical and Computer Engineering  
*Optimal Bidding Strategy of a Strategic Wind Power Producer in the Short-Term Market*  
Advisor: Wei Qiao

61 Yanjun Fang  
Mechanical and Materials Engineering  
*High-Gain and Low-Driving-Voltage Photodetectors Based on Organolead Triiodide Perovskites*  
Advisor: Jinsong Huang

62 Corey Kruse  
Mechanical and Materials Engineering  
*Heat Transfer Applications of Metallic Femtosecond Laser Processed Surfaces: Pool Boiling and Self-Propelled Droplets*  
Advisor: Sidy Ndao

63 Qi Wang  
Mechanical and Materials Engineering  
*Doped Hole Transport Layer for Efficiency Enhancement in Planar Heterojunction Organolead Trihalide Perovskite Solar Cells*  
Advisor: Jinsong Huang

64 Zhengguo Xiao  
Mechanical and Materials Engineering  
*Increasing the Charge Diffusion Length of CH3NH3PbI3 to Beyond 1 µm by Solvent Annealing*  
Advisor: Jinsong Huang

### Engineering

65 Aaron Engel  
Biological Systems Engineering  
*Ultrasound Elastography: Imaging the Mechanical Properties of Soft Tissues*  
Advisor: Gregory Bashford

66 Benjamin Hage, Mohammed Alwatban  
Biological Systems Engineering  
*Functional Transcranial Doppler Ultrasound for Measurement of Hemispheric Lateralization during Two Visuospatial Tasks and Comparison with Visual Gaze Dynamics*  
Advisor: Gregory Bashford

67 Amy Mantz  
Biological Systems Engineering  
*Improving Nonviral Gene Delivery with Nanostructured Thin Film Surfaces*  
Advisor: Angela Pannier
68 Steve Hayward
Chemical and Biomolecular Engineering
Targeted Delivery of MicroRNA by Engineered Lipid Nanoparticles for the Treatment of HER2 Positive Metastatic Breast Cancer
Advisor: Srivatsan Kidambi

69 Vaishaali Natarajan
Chemical and Biomolecular Engineering
Liver Tissue Engineering: The Role of Substrate Stiffness on Cellular Fate
Advisor: Srivatsan Kidambi

70 Benjamin Pavlik
Chemical and Biomolecular Engineering
Internalization of C. botulinum C2HI Domain 4 is Dependent upon Neuronal Differentiation
Advisors: Kevin Van Cott and Paul Blum

88 Wenjian Zheng
Chemical and Biomolecular Engineering
Morphology of block ionomer regulates its electromechanical performance as applied in ionic polymer-metal composites
Advisor: Chris Cornelius

71 Darshan Baral
Civil Engineering
Investigation of contamination sources in small urban creek using microbial source tracking and isotopic analysis
Advisor: Bruce Dvorak

72 Lauren Hauser
Civil Engineering
Evaluating Air Emissions from Solid Waste Refuse Trucks
Advisor: Elizabeth Jones

73 Negin Kanani zadeh
Civil Engineering
Using Birefringence Imaging Technique to Detect the Deposition of Titanium Dioxide Nanoparticles onto Rough Surfaces
Advisor: Yusong li

74 Yutian Lei
Civil Engineering
Study of rapid screening of testosterone in water using direct analysis in real time mass spectrometry
Advisor: Tian Zhang

75 Yong Qi
Civil Engineering
Sorption distribution of testosterone among Non-Dispersed Soil Particles Of Different Size Fractions
Advisor: Tian Zhang
76 Jonathan Sallach  
Civil Engineering  
Factors that Influence the Uptake of Antibiotics in Lettuce after Wastewater Irrigation  
Advisor: Shannon Bartelt-Hunt

77 Yun Zhang  
Civil Engineering  
Impact of sediment on agrichemical fate and bioavailability to aquatic organisms  
Advisor: Shannon Bartelt-Hunt

78 Zahra Jabbarani Torghabeh  
Durham School of Architectural Engineering and Construction  
Descriptive Analysis of Physical Discomfort Experienced during Work Capacity Testing  
Advisor: Terry Stentz

79 Houtan Jebelli  
Durham School of Architectural Engineering and Construction  
Assessing Stability of Construction Workers Using Wearable Wireless Sensor Networks  
Advisor: Changbum Ahn

80 Krishna Kisi  
Durham School of Architectural Engineering and Construction  
Estimating Optimal Labor Productivity: A Two Prong Strategy  
Advisor: Terence Foster

81 Joonhee Lee  
Durham School of Architectural Engineering and Construction  
Threshold estimation for noise-induced annoyance by tones from building mechanical noises  
Advisor: Lily Wang

82 Sogand Mohammadhasanzadeh  
Durham School of Architectural Engineering and Construction  
Project Delivery Performance  
Advisor: Behzad Esmaeili

83 Hamed Nabizadeh Rafsanjani  
Durham School of Architectural Engineering and Construction  
Profiling Occupants’ Energy Consuming Behavior Patterns in Commercial Buildings  
Advisor: Changbum Ahn

84 Adrian Lara  
Computer Science and Engineering  
SDN-based Inter-domain Routing with Cut-through Switching for the MobilityFirst Future Internet Architecture  
Advisor: Byrav Ramamurthy
90 Chad Briley
Electrical and Computer Engineering
Anisotropic Plasmon Resonances in Nanostructured Thin Films: An Optical Model Approach
Advisor: Mathias Schubert

91 Alexander Boosalis
Electrical and Computer Engineering
Dielectric Functions of Graphene and HOPG
Advisor: Mathias Schubert

92 Elham Foruzan
Electrical and Computer Engineering
Electricity price forecasting using Machine Learning Methods
Advisor: Sohrab Asgarpoor

93 Milad Kahrobaee
Electrical and Computer Engineering
Optimum Renewable Generation Capacities in a Microgrid
Advisor: Sohrab Asgarpoor

94 Kamran Keramatnejad
Electrical and Computer Engineering
Skin effect mitigation in laser processed multi-walled Carbon nanotube/Cu conductors
Advisor: Yongfeng Lu

95 Sean Knight
Electrical and Computer Engineering
Cavity-enhanced optical Hall effect in two-dimensional free charge carrier gases detected at terahertz frequencies
Advisor: Mathias Schubert

96 Dan Liang
Electrical and Computer Engineering
Optical anisotropy of porous polymer film with inverse slanted nanocolumnar structure revealed via generalized spectroscopic ellipsometry
Advisor: Eva Schubert

97 Yao Lu
Electrical and Computer Engineering
Sensitivity enhancement of ambient mass spectrometry assisted by a continuous wave laser
Advisor: Yongfeng Lu

98 Cong Ma
Electrical and Computer Engineering
Design Optimization of a Linear Generator with Dual Halbach Array for Human Motion Energy Harvesting
Advisor: Liyan Qu

99 Alyssa Mock
Electrical and Computer Engineering
Enhanced Temperature Stability of Slanted Columnar Thin Films by ALD Overcoating
Advisor: Eva Schubert
100 Darin Peev  
Electrical and Computer Engineering  
3D-Nanostructure Ultrathin-Layer Birefringence Imaging Chromatography  
Advisor: Mathias Schubert

101 Hossein Rabiee Golgir  
Electrical and Computer Engineering  
Low Temperature Growth of GaN Through Vibrational Excitation of Ammonia  
Advisor: Yongfeng Lu

102 Derek Sekora  
Electrical and Computer Engineering  
Electrochemical Reduction of Methylene Blue Immobilized on Highly Ordered 3-Dimensional Nanostructured Surfaces Studied by in-situ EC, QCM-D and Generalized Spectroscopic Ellipsometry  
Advisor: Eva Schubert

103 Ze Wang  
Electrical and Computer Engineering  
Frequency-Domain Transient Temperature Estimation and Aging Analysis for Weak Points of IGBT Modules  
Advisor: Wei Qiao

104 John Davidson  
Mechanical and Materials Engineering  
Soap Bubbles: Formation and Pinch-off  
Advisor: Sangjin Ryu

105 Ethan Davis  
Mechanical and Materials Engineering  
Characterization of Low Melting Point Metals for Applications in Thermal Energy Management  
Advisor: Sidy Ndao

106 Mahmoud Elzouka  
Mechanical and Materials Engineering  
Near-Field NanoThermoMechanical Memory: Near-field Heat Transfer Enabled Negative Differential Thermal Resistance and Thermal Latching  
Advisor: Sidy Ndao

107 Henry Ems  
Mechanical and Materials Engineering  
Microstructure-alone induced transition from hydrophilic to hydrophobic wetting state on Silicon  
Advisor: Sidy Ndao

108 Anton Hassebrook  
Mechanical and Materials Engineering  
Thermal Stability of Rare Earth Oxide Coated Superhydrophobic Microstructured Metallic Surfaces  
Advisor: George Gogos
89  Kazi Hossain  
Mechanical and Materials Engineering  
*A Work in Modular Robots : ModRED II*  
Advisor: Carl Nelson

109  Kevin Kreis  
Mechanical and Materials Engineering  
*Mesofluidic Study for Microbial Interactions with Plant Roots*  
Advisor: Sangjin Ryu

110  Donghee Lee  
Mechanical and Materials Engineering  
*Confocal Microscopy Indentation Method for Hydrogel*  
Advisor: Sangjin Ryu

111  Md Mahmudur Rahman  
Mechanical and Materials Engineering  
*Hydrodynamics of drop coalescence and it’s remarkable application in science and research*  
Advisor: Mehrdad Negahban

**Physical Sciences**

112  Maia Kelly  
Chemistry  
*Optimization of a Chemosensor for Rho-Associated Protein Kinase and its Application to Inhibitor Screening*  
Advisor: Cliff Stains

113  Lei Li  
Chemistry  
*Direct Simulation Evidence of Generation of Oxygen Vacancies at the Golden Cage Au16 and TiO2 (110) Interface for CO Oxidation*  
Advisor: Xiao Cheng Zeng

114  Seema Pande  
Chemistry  
*Structural Evolution of Gold Anion Clusters (size range 40 -50 atoms)*  
Advisor: Xiao Cheng Zeng

115  Abdelbaset Hamza  
Computer Science and Engineering  
*Free Space Optical Multicast Crossbar Switch with Non-Movable Switching Elements*  
Advisor: Jitender Deogun

116  Victoria Chraibi  
Earth and Atmospheric Sciences  
*Resilience of Aquatic Communities in Naturally Fishless Lakes to Fish Stocking in Yellowstone National Park*  
Advisor: Sherilyn Fritz
117  Christina Edholm  
Mathematics  
*Optimal Control of Diaprepes Root Weevil*  
Advisors: Richard Rebarber and Brigitte Tenhumberg

118  William Jamieson  
Mathematics  
*On the Nonlocal Poisson Problem with Variable Permissivity*  
Advisors: Petronela Radu and Adam Larios

119  Julia St. Goar  
Mathematics  
*A Right Focal Boundary Value Problem in Nabla Fractional Calculus*  
Advisor: Allan Peterson

120  Laura White  
Mathematics  
*Energy Decay Rates in Nonlocal Hyperbolic Diffusion*  
Advisor: Petronela Radu
Shi Cao  
Physics and Astronomy  
Advisor: Peter A. Dowben  
AVS 61st Dorothy M. and Earl S. Hoffman Travel Grant

Victoria Chraibi  
Earth and Atmospheric Sciences  
Advisor: Sherilyn Fritz  
Fulbright Canada-RBC Eco-Leadership  
Sponsor: Fulbright Canada, Royal Bank of Canada  
Student Research Grant  
Sponsor: Geological Society of America  
Ellis L. Yochelson Award  
Sponsor: The Paleontological Society

Daniel Clausen  
English  
Advisor: Tom Lynch  
German Book Office-New York Translation Workshop  
Sponsor: German Book Office-New York

Mahmoud Elzouka  
Mechanical & Materials Engineering  
Advisor: Sidy Ndao  
College of Engineering Poster Commendation Award, UNL Spring Research Fair 2014  
Sponsor: College of Engineering, University of Nebraska–Lincoln

Susana Geliga  
History  
Advisor: Margaret Jacobs  
2015 Othmer Fellowship  
Sponsor: University of Nebraska–Lincoln

Elisha Hall  
Nutritional Science & Dietetics  
Advisors: Weiwen Chai, Julie Albrecht  
Jeanne Vierke Yeutter Fellowship  
Dr. Marie E. Knickrehm Scholarship  
Transdisciplinary Childhood Obesity Prevention Graduate Student Research Support Grant  
David H. & Anne E. Larrick Memorial Travel Fund

Lyrica Lucas  
Teaching, Learning and Teacher Education  
Advisor: Elizabeth B. Lewis  
Paul and Edith Babson Fellowship

Alyssa Mock  
Electrical Engineering  
Advisor: Eva Schubert  
Milton E Mohr Fellowship

Johnica Morrow  
School of Natural Resources  
Advisor: Karl Reinhard  
Southwestern Association of Parasitologists Graduate Student Research Grant  
Sponsor: Southwestern Association of Parasitologists
Office of Graduate Studies Travel Fellowship
Sponsor: University of Nebraska–Lincoln Office of Graduate Studies

Institute of Agriculture and Natural Resources Global Engagement
Sponsor: University of Nebraska–Lincoln Institute of Agriculture and Natural Resources

Jessie Patterson
Special Education and Communication Disorders
Advisor: Julie A. Honaker

Vestibular Student Investigator
Sponsor: American Academy of Audiology Foundation

New Century Scholars Doctoral Scholarship
Sponsor: American Speech-Language and Hearing Foundation

Othmer Fellowship
Sponsor: University of Nebraska–Lincoln Graduate College

Student Travel Award Reimbursement (STAR)
Sponsor: American Academy of Audiology

Matthew Peppers
Earth and Atmospheric Sciences
Advisor: Caroline Burberry

AAPG Grants-in-Aid & GSA Research Grant Award

Rachel Schmitz
Sociology
Advisor: Kimberly Tyler

Cheryl Applegate Instructor Award
Sponsor: University of Nebraska–Lincoln Department of Sociology

Department of Sociology Graduate Student Paper Award
Sponsor: University of Nebraska–Lincoln Department of Sociology

Alice Frost Howard Fellowship
Sponsor: University of Nebraska–Lincoln Department of Sociology

Joyce Hertzler Award
Sponsor: University of Nebraska–Lincoln Department of Sociology

Fayaz Sofi
Civil Engineering
Advisor: Joshua S. Steelman

International Road Federation (IRF) Fellowship Grant - 2016
Sponsor: International Road Education Foundation (IREF)

Zachary Stewart
Agronomy and Horticulture
Advisor: Charles Shapiro

Future Leaders in Science Award
Sponsor: American Society of Agronomy, Crop Science Society of America and Soil Science Society of America

North Central Extension-Industry Soil Fertility Outstanding Graduate Research Award
Sponsor: International Plant Nutrition Institute
Johnica Morrow
School of Natural Resources
Advisor: Karl Reinhard

Zahoor Ganie
Agronomy and Horticulture
Advisor: Amit Jhala
Chapter “Integrated Weed Management in Corn” in *Recent Advances in Weed Management.* New York: Springer.
Mohammed Alwatban  Biological Systems Engineering
Advisor: Greg Bashford
“Transcranial Doppler Assessment of Cerebral Blood Flow Velocity During Visuospatial Tasks.” Presented at Nebraska Neuroscience Symposium, Omaha, NE: September 25, 2014

Darshan Baral  Civil Engineering
Advisors: Bruce Dvorak, Xu Li
“Investigation of contamination sources in small urban creek using microbial source tracking and isotopic analysis.” Presented at 2015 World Environmental & Water Resources Congress, Austin, TX: May 17-21, 2015

Parminder Chahal  Agronomy and Horticulture
Advisor: Amit J. Jhala

“Effect of Soybean Pre- and Post-Emergence Herbicides on Glyphosate, Glufosinate, and Imidazolinone Resistant Volunteer Corn.” Presented at Annual Meeting of the North Central Weed Science Society, Columbus, OH: December 9-12, 2013


“Factors Affecting the Germination and Emergence of Glyphosate-Resistant Hybrid and Volunteer Corn (Zea mays L.).” Presented at Annual Meeting of the North Central Weed Science Society, Minneapolis, MN: December 1-4, 2014

Daniel Clausen  English
Advisor: Tom Lynch
“Old Roots for New Agrarianism: Buffalo Bird Woman’s Garden and Native Agriculture.” Presented at Annual Conference of the Western Literature Association, Victoria, British Columbia, Canada: November 4-8, 2014
Amy Desaulniers  Animal Science
Advisor: Brett White
“LH independent testosterone production is mediated by the interaction between GnRH-II and its receptor in the boar testis.” Presented at Society for the Study of Reproduction, Grand Rapids, MI: July 19-23, 2014

“Production of a gonadotropin-releasing hormone II receptor knockdown swine line.” Presented at International Embryo Transfer Society Annual Meeting, Reno, NV: January 11-14, 2014

Mahmoud Elzouka  Mechanical & Materials Engineering
Advisor: Mahmoud Elzouka
“Modeling of Near-Field Concentrated Solar Thermophotovoltaic Microsystem.” Presented at International Mechanical Engineering Congress & Exposition, Montreal, Quebec, Canada: November 14-20, 2014

Tony Foreman  History
Advisor: Gerald Steinacher

Zahoor Ganie  Agronomy and Horticulture
Advisor: Amit J. Jhala

Aileen Garcia  Child, Youth and Family Studies

Santiago Gimenez Ocano  Computer Science and Engineering
Advisor: Byrav Ramamurthy

Benjamin Hage  Chemistry
Advisor: David S. Hage

Benjamin Hage  Biological Systems Engineering
Advisor: Greg Bashford
“Transcranial Doppler Assessment of Cerebral Blood Flow Velocity During Visuospatial Tasks.” Presented at Nebraska Neuroscience Symposium, Omaha, NE: September 25, 2014
Elisha Hall  
**Nutritional Science & Dietetics**
Advisors: Weiwen Chai, Julie Albrecht
“Evaluation of nutrition and physical activity curricula based on the social cognitive theory.” Presented at Nebraska Academy of Nutrition and Dietetics Annual Conference, Omaha, NE: April 9-11, 2014

“A Mixed Methods Study of the Effectiveness of an After-School Cooking Club Curriculum for Middle School Students.” Presented at Society of Nutrition Education and Behavior Annual Conference, Milwaukee, WI: June 28-July 1, 2014


Abdelbaset Hamza  
**Computer Science and Engineering**
Advisors: Jitender S. Deogun, Dennis R. Alexander
“Free Space Optical Multicast Crossbar Switch with Non-Movable Switching Elements.” Presented at Photonic Networks and Devices, San Diego, CA: July 13-17, 2014

“Free space optical data center architecture design with fully connected racks.” Presented at 2014 IEEE Global Communications Conference (GLOBECOM ’14), Austin, TX: Dec. 8-12, 2014

Meredith Hope  
**Educational Psychology**
Advisor: Eric Buhs

Zahra Jabbarani Torghabeh  
**Durham School of Architectural Engineering and Construction**
Advisor: Terry Stentz
“Demonstration of Work Performance Metrics in Ironworkers Using the ERGOS Sapphire TM Work Simulation System.” Presented at ASC (Associated School of Construction), Texas A&M University, College Station, TX: April 22-25, 2015

“Pilot Study Results of Body Part Discomfort during an Ironworker Physical Capacity Test Using the ERGOS Sapphire TM Work Simulation System.” Presented at ASC (Associated School of Construction), Texas A&M University, College Station, TX: April 22-25, 2015

Adrian Lara  
**Computer Science and Engineering**
Advisor: Byrav Ramamurthy
Rick Marlatt  Teaching, Learning and Teacher Education  
Advisors: Kathleen Wilson, Lauren Gatti  
“Gaming and Reading: A Sinister Bond.” Presented at Nebraska Educational Technology Association, Kearney, NE: September, 2014  

Johnica Morrow  School of Natural Resources  
Advisor: Karl Reinhard  
“Taphonomic Considerations of a Whipworm Infection in a Mummy from the Dominican Church of the Holy Spirit, Vilnius, Lithuania.” Presented at Rocky Mountain Conference of Parasitologists, Ogallala, NE: September 4-6, 2014  
“Parasitology in an Archaeological Context: Analysis of Medieval Burials in Nivelles, Belgium.” Presented at Southwestern Association of Parasitologists, Lake Texhoma, OK: April 10-12, 2014  
“The Biology and Identification of the Coccidia (Apicomplexa) of Turtles of the World.” Presented at Southwestern Association of Parasitologists, Lake Texhoma, OK: April 10-12, 2014  
“Parasitology in an Archaeological Context: Analysis of Medieval Burials in Nivelles, Belgium.” Presented at Rocky Mountain Conference of Parasitologists, Ogallala, NE: September 4-6, 2014  
“A Case of Geohelminthiasis in a Mummy from the Dominican Church of the Holy Spirit, Vilnius, Lithuania.” Presented at Southwestern Association of Parasitologists, Lake Texhoma, OK: April 10-12, 2014  

Hamed Nabizadeh Rafsanjani  Construction Management  
“The Use of Linear Regression to Estimate the Actual Hourly Production of a Wheel-Type Loader in Construction Projects.” Presented at ASCE-ICSDCE 2012, Fort Worth, TX: 2012  
“Bucket with Flexible Width for Hoe.” Presented at CEU Conference, Tehran, Iran: 2014  

Ruvini Pathirana  School of Biological Sciences  
Advisor: Kenneth W. Nickerson  
“Roles of FMS1 (orf19.4589) and CBP1 (orf19.7323) genes in the de novo beta-alanine synthesis pathway from polyamines in Candida albicans.” Presented at Yeast Genetics Meeting, Genetics Society of America, University of Washington, Seattle, WA: July 29 - August 3, 2014
Jessie Patterson  
Special Education and Communication Disorders  
Advisor: Julie A. Honaker  
“Modified Head-Shake Posturography: Sensitivity and Specificity.” Presented at American Balance Society, Scottsdale, AZ: March 5, 2014

Rachel Schmitz  
Sociology  
Advisor: Kimberly Tyler  
“Homeless Young People’s Gendered Experiences of Caregiver Rejection.” Presented at Midwest Sociological Association Annual Meeting, Omaha, NE: April 3-6, 2014


“Transcending Gender: Men’s Experiences Taking Women’s and Gender Studies Courses.” Presented at Midwest Sociological Association Annual Meeting, Omaha, NE: April 3-6, 2014

Ze Wang  
Electrical Engineering  
Advisor: Wei Qiao  

Pan Yi  
Computer Science and Engineering  
“Provisioning Virtualized Cloud Services in IP/MPLS-over-EON Network.” Presented at Optical Network Design and Modeling, Pisa, Italy: May 11-14, 2015
CREATIVE ACTIVITY

Mahmoud Elzouka  Mechanical & Materials Engineering
Inventor, Near-Field Thermal Memories. NUTech, Lincoln, NE. 2014.

Rick Marlatt  Teaching, Learning and Teacher Education
Advisors: Kathleen Wilson, Lauren Gatti
Poet, "Carl Sandburg and the Sunburnt West". World Theatre, Kearney, NE. April 2015.

Johnica Morrow  Natural Resources
Advisor: Karl Reinhard

Darin Peev  Electrical and Computer Engineering
Advisor: Mathias Schubert
Scientist, External Review. EPSCoR RII Track 1 External Review - poster presentations, Lincoln, NE. August 2014.
Scientist, Dark-Field Transmission Imaging of Surfactant Adsorption to Slanted Ti Nanorods. Nebraska EPSCoR RII Track 1 Grant - poster presentations, Lincoln, NE. August 2013.
Scientist, 3D-Nanostructure Ultrathin-Layer Birefringence Imaging Chromatography. 9TH WORKSHOP ELLIPSOMETRY, University of Twente, Enschede, The Netherlands. February 2015.
Parminder Chahal  Agronomy and Horticulture  Advisor: Amit J. Jhala  

Carly Champagne  Educational Psychology  Advisor: Kathleen M. Rudasill  

Victoria Chraibi  Earth and Atmospheric Sciences  Advisor: Sherilyn Fritz  


Mahmoud Elzouka  Mechanical & Materials Engineering  Advisor: Sidy Ndao  


Johnica Morrow  School of Natural Resources  Advisor: Karl Reinhard  

Hamed Nabizadeh Rafsanjani  Construction Management

Jessie Patterson  Special Education and Communication Disorders
Advisor: Julie A. Honaker

Jessie Patterson  Special Education and Communication Disorders

Jessie Patterson  Special Education and Communication Disorders

Rachel Schmitz  Sociology
Advisor: Kimberly Tyler

Rachel Schmitz  Sociology
Co-Author, with Dr. Kristin S. Scherrer and Dr. Emily Kazyak. Getting Bi in the Family: Bisexual People’s Disclosure Strategies Within the Family. *Journal of Marriage and Family*.

Antover Tuliao  Psychology
Advisor: Dennis E. McChargue

Antover Tuliao  Psychology

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