# August 3rd, 2023: Directory of Undergraduate Student Presenters

## Posters 1-105 in Centennial Room

<table>
<thead>
<tr>
<th>Biomedical Engineering REU</th>
<th>Crop-to-Food REU (Cont.)</th>
<th>Lasers &amp; Optics REU</th>
<th>Nebraska Center for Materials and Nanoscience &amp; Young Nebraska Scientists High School Interns</th>
<th>Sustainability of Horizontal Currents REU</th>
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<td>155</td>
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</tbody>
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## Applied Phenotyping REU

<table>
<thead>
<tr>
<th>Applied Phenotyping REU</th>
<th>Crop-to-Food REU (Cont.)</th>
<th>Lasers &amp; Optics REU</th>
<th>Nebraska Center for Materials and Nanoscience &amp; Young Nebraska Scientists High School Interns</th>
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## Visit the symposium webpage by scanning the QR code below to take the directory with you!
Abbegail Bowers
Research Group: Nebraska Center for Energy Sciences Research
Poster Location: 145
Poster Title: Structural Changes and Dislocations of Rare-Earth Ferric Oxide Thin Films
Adviser: Xiaoshan Xu

Abigail Schroeder
Research Group: Other
Poster Location: 140
Poster Title: Norfolk Integrated Waste-Energy Framework
Adviser: David Gosselin

Addyson Calfee
Research Group: UCARE
Poster Location: 102
Poster Title: Peroxide-substituted Peptides as a New Class of Protease Inhibitors
Adviser: Patrick Dussault

Aditya Prathapa
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 189
Poster Title: Mapping the Quantum Potential
Adviser: Herman Batelaan

Adriana Ruiz Ortiz
Research Group: Nebraska Summer Research Program
Poster Location: 59
Poster Title: Quantification of Lipids in Exophiala viscous 03-3 WT, E. viscous pks1, and Saccharomyces cerevisiae for a Potential use in Biofuel Production
Adviser: Wayne Riekhof

Aislinn Varela
Research Group: Nebraska Summer Research Program
Poster Location: 113
Poster Title: 3D Printed Graphene-Biopolymer Aerogels for PFAS Remediation
Adviser: Nirupam Aich

Alejandra Sanchez Sanchez
Research Group: Nebraska Summer Research Program
Poster Location: 138
Poster Title: Environmental Engineering: A Students’ Use of Monitoring: A Comparison of Start and End-of-Semester
Adviser: Grace Panther, Heidi Diefes-Dux
Alison Klein
Research Group: National Nanotechnology Coordinated Infrastructure Research Experience for Teachers
Poster Location: 193
Poster Title: Lanthanide Adatoms on Graphene: Promising Spin Qubit Materials
Adviser: Aleksander Wysocki

Allison Conzemius
Research Group: UCARE
Poster Location: 103
Poster Title: Developing a set of geophysical maps to track the Yellowstone hotspot
Adviser: Irina Filina

Amara Reichert
Research Group: Nebraska Summer Research Program
Poster Location: 99
Poster Title: High-Throughput Analysis of Soybean Photosynthetic Capacity via Leaf Hyperspectral Data and Machine Learning
Adviser: Yufeng Ge

Amaya Street
Research Group: Nebraska Summer Research Program
Poster Location: 73
Poster Title: A General Trend of Emission Stokes Shift in Lead-Halide Perovskites
Adviser: Yinsheng Guo

Amelia Schwensen
Research Group: UCARE
Poster Location: 19
Poster Title: Vagrancy Vaugness? Habeas challenges to vagrancy policing in Douglas County, 1890-1925
Adviser: Katrina Jagodinsky

Andrew Pick
Research Group: Nebraska Summer Research Program
Poster Location: 57
Poster Title: Analysis of Photosynthetic Lipid Transport using Split-TurboID
Adviser: Rebecca Roston

Angela Gil
Research Group: Nebraska Summer Research Program
Poster Location: 115
Poster Title: Effects of Temperature on Metal Recovery from Spent Lithium-Ion Battery using the Microbiome in Corn Silage
Adviser: Xu Li

Archita Raj
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 183
Poster Title: Effect of 3 Color Choice on Visual Discrimination in Zebrafish
Adviser: Ryan Wong

Asher Ralphs
Research Group: Nebraska Summer Research Program
Poster Location: 61
Poster Title: Using an In-house Enzyme to Set Both Stereocenters for the Taxotere Family of Anti-Cancer Drugs
Adviser: David Berkowitz

Ashlyn Westerfield
Research Group: Nebraska Summer Research Program
Poster Location: 86
Poster Title: Synthesis of Covalent Allosteric Peptide Inhibitors
Adviser: James W. Checco

Assiatou Bah
Research Group: Nebraska Summer Research Program
Poster Location: 158
Poster Title: An exploration of student's understanding of ultraviolet-visible spectroscopy
Adviser: Alena Moon

Avery Campbell
Research Group: Nebraska Summer Research Program
Poster Location: 64
Poster Title: Streptavidin Silica Microcolumns for Analyzing Biopharmaceuticals
Adviser: David S Hage

Bakir Al-Ameri
Research Group: Nebraska Center for Energy Sciences Research
Poster Location: 143
Poster Title: Power Generation via Thermionic Electron Emission
Adviser: Mohammad Ghashami

Ben Aaron
Research Group: Nebraska Summer Research Program
Poster Location: 107
Poster Title: Analyzing Equity in EV Charging Station Access for Rural Areas
Adviser: Jason Hawkins

Benjamin Adams
Research Group: Nebraska Summer Research Program
Poster Location: 121
Poster Title: Artificial GPS in Indoor Testing of Unmanned Aircraft Systems
Adviser: Justin Bradley

Benjamin Hammons
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 181
Poster Title: Cryogenic Nitrogen Vacancy Widefield Microscopy
Adviser: Abdelghani Laraoui

Bernadette Traina
Research Group: Nebraska Summer Research Program
Poster Location: 83
Poster Title: Combinatorial Genetic Strategies for Enhanced Astaxanthin Production in Camelina
Adviser: Edgar B. Cahoon

Bhoomi Modi
Research Group: UCARE
Poster Location: 41
Poster Title: Investigation of natural variation in Non-photochemical quenching in Soybean
Adviser: Katarzyna Glowacka

Blake Johnson
Research Group: UCARE
Poster Location: 171
Poster Title: Controlled, Precise Tightening of Bolts to Enable the Systematic Measurement of Surface Strains
Adviser: Keegan Moore

Braden Olson
Research Group: Nebraska Summer Research Program
Poster Location: 112
Poster Title: Utilization of Polypropylene to Enhance Mechanical Performance of High-RAP Asphalt Mixtures with Soybean Oil
Adviser: Jamilla Teixeira

Bradley Dice
Research Group: Nebraska Summer Research Program
Poster Location: 66
Poster Title: Synthesis of Cr2TiC2Tx MXene for Hydrogen Evolution Reaction
Adviser: Alexander Sinitskii

Brandon Groves
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 179
Poster Title: Investigation of Perpendicular Magnetic Anisotropy with CoFeB Ferromagnetic Thin Films
Adviser: Shireen Adenwalla

Brooke James
Research Group: UCARE
Poster Location: 167
Poster Title: Electronic Nose  
Adviser: Eric Markvicka

Brooklynn Blackwell  
Research Group: Nebraska Summer Research Program  
Poster Location: 108  
Poster Title: Casual Drivers of Flood-Induced Water Quality Issues in Nebraska  
Adviser: Tirthankar Roy

Bryce Herrington  
Research Group: Nebraska Center for Energy Sciences Research  
Poster Location: 155  
Poster Title: Electronic transport properties of Fe(qsal)_2-TNCQ molecular magnets  
Adviser: Robert Streubel

Caden Connealy  
Research Group: UCARE  
Poster Location: 34  
Poster Title: Reduced glycine-GGA OTS codon usage in West Nile Virus confers greater resistance to mutagenesis  
Adviser: Nicole Sexton

Caden Pak  
Research Group: Nebraska Summer Research Program  
Poster Location: 118  
Poster Title: Wearable Ultrasound Patch: Mass- Spring Matching Layer  
Adviser: Eric Markvicka

Caidan Moore  
Research Group: Nebraska Summer Research Program  
Poster Location: 165  
Poster Title: Data Analysis Methods For Gas Phase Ultrafast Electron Diffraction  
Adviser: Martin Centurion

Callan Schroder  
Research Group: UCARE  
Poster Location: 90  
Poster Title: To Determine the Biological Interactions of Stabilin-Ligand Binding Complexes  
Adviser: Edward Harris

Carlos Bucio  
Research Group: Nebraska Summer Research Program  
Poster Location: 51  
Poster Title: Innovations in Sorghum Bioenergy: Unlocking Unconventional Fatty Acids for Aviation  
Adviser: Ed Cahoon, Kiyoul Park

Carsyn Loncke
Research Group: UCARE
Poster Location: 5
Poster Title: How Lincoln Became a Well Known Refugee City
Adviser: Emira Ibrahimpasic

Cassandra Voigt
Research Group: UCARE
Poster Location: 105
Poster Title: Analysis of Artificial Blood, Gunshot Residue, and Fiber Transfer in a Simulated Mass Shooting Scenario
Adviser: Charles Murrieta

Chanasei Ziemann
Research Group: UCARE
Poster Location: 50
Poster Title: A Comparative Transcriptome Analysis in Mice Susceptible to Zika Virus-Mediated Paralysis
Adviser: Luwen Zhang

Chelsea Hanway
Research Group: UCARE
Poster Location: 8
Poster Title: Wakara Remains
Adviser: Max Mueller

Chinmoy Dev
Research Group: Nebraska Summer Research Program
Poster Location: 109
Poster Title: Innovative Tornado Wind Characterization via Remotely Sensed Tree Damage
Adviser: Richard L. Wood

Chloe Yoder
Research Group: Nebraska Summer Research Program
Poster Location: 114
Poster Title: Evaluating Nebraska's Technical Capacity to Treat PFAS in Drinking Water
Adviser: Kaycie Lane

Christina Manna
Research Group: Nebraska Summer Research Program
Poster Location: 46
Poster Title: Micromanaging Midges: Utilization of Stem Removal in the Soybean Gall Midge Colony
Adviser: Justin McMechan

Christina Xu
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 190
Poster Title: Evaluating Large Language Models in Solving Math Word Problems
Adviser: Hamid Bagheri, Lisong Xu

Christine Humphrey
Research Group: Nebraska Summer Research Program
Poster Location: 117
Poster Title: Investigating the Uptake of Outer Membrane Vesicles by Human Commensal Bacteria in the Gut
Adviser: Angela Pannier

Cirilo Mejia
Research Group: Nebraska Summer Research Program
Poster Location: 116
Poster Title: Unraveling the Interplay between Microstructure and Mechanical Properties in Wire Arc Additively Manufactured ER70S-6
Adviser: Jeffrey Shield

Cole Hammett
Research Group: Nebraska Summer Research Program
Poster Location: 98
Poster Title: The Effect of Drought Conditions on the Development of Solid-Stemmed Wheat
Adviser: Katherine Frels

Cole-Thomas Johnson
Research Group: Nebraska Summer Research Program
Poster Location: 124
Poster Title: Impact of Lighting Conditions on Object Tracking With Unmanned Surface Vehicles
Adviser: Justin Bradley

Connor Rudewick
Research Group: Nebraska Summer Research Program
Poster Location: 130
Poster Title: Comparative Study Between Rotary Auger and Hole Saw Soil Samplers
Adviser: Justin Bradley

Cooper Valentine
Research Group: Nebraska Summer Research Program
Poster Location: 85
Poster Title: Designing a Synthetic Signaling Pathway Using Hydrogels
Adviser: Stephen Morin

Cornell Daro
Research Group: Nebraska Summer Research Program
Poster Location: 60
Poster Title: Insights into Mechanical Properties of Pectin-hemp Biocomposites
Adviser: Barry Cheung

Courtney Guilbeaux
Research Group: Nebraska Summer Research Program
Poster Location: 89
Poster Title: Characterization of *E. coli* Mutant D439A
Adviser: Donald Becker

Daniel Denehy
Research Group: Nebraska Summer Research Program
Poster Location: 122
Poster Title: Who Put Their Soil Sampler On My Drone?
Adviser: Justin Bradley

Daysanit Rivera-Garcia
Research Group: Nebraska Summer Research Program
Poster Location: 56
Poster Title: Exploring the Role of Antioxidant Nanoparticles as a Potential Therapeutic Agent in the Battle Against Oxidative Stress and Astrocytic Damage in Traumatic Brain Injury
Adviser: Forrest Kievit

Dayton Gatewood
Research Group: Nebraska Summer Research Program
Poster Location: 52
Poster Title: Multi-Species Comparison of Mitochondrial Function in Green and Etiolated Plants
Adviser: Jeff Mower

Elaine Yu
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 188
Poster Title: Micromagnetic Monte Carlo Simulations of Disordered Materials
Adviser: Robert Streubel

Elana Arazi
Research Group: Nebraska Summer Research Program
Poster Location: 96
Poster Title: Expanding Lincoln Public School Gardens: To Grow a Better Tomorrow
Adviser: Terri Kim and Kim Todd

Elizeh Tarkian
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientist High School Interns
Poster Location: 187
Poster Title: Isolation and Characterization of Photosynthetic Pigments
Adviser: Rebecca Roston

Ella Wiggenhorn
Research Group: Nebraska Summer Research Program
Poster Location: 94
Poster Title: Epigraph Design of Human Influenza A Virus Neuraminidase Subtype 2 Vaccine
Adviser: Eric Weaver

Ellen Daugherty
Research Group: Nebraska Summer Research Program
Poster Location: 146
Poster Title: Effects of Annealing on Ferroelectric DC-MBI Films
Adviser: Xiaoshan Xu

Ellis Chen
Research Group: Nebraska Summer Research Program
Poster Location: 12
Poster Title: Habeas Corpus & Narcotics in Washington & Nebraska, 1882-1916
Adviser: Katrina Jagodinsky

Emilia Frey
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 178
Poster Title: Thin Film Deposition Using Nd:YAG Laser
Adviser: Xiaoshan Xu

Emily Hogg
Research Group: UCARE
Poster Location: 38
Poster Title: How Human Cytomegalovirus UL6 Interacts with the Cellular Genes QSOX1 and F2 to Control Proliferation and Disease
Adviser: Lindsey B. Crawford

Emma Cook
Research Group: Nebraska Summer Research Program
Poster Location: 65
Poster Title: Effects of Small Signaling Molecules on Lysobacter enzymogenes
Adviser: Liangcheng Du

Emma Kurtz
Research Group: Nebraska Center for Energy Sciences Research
Poster Location: 140
Poster Title: Norfolk Integrated Waste-Energy Framework
Adviser: David Gosselin

Enrique Stolz
Research Group: Nebraska Summer Research Program
Poster Location: 148
Poster Title: Application of Nitrogen vacancy centers in Spin wave imaging
Adviser: Abdelghani Laraoui

Esme Krohn
Research Group: Nebraska Summer Research Program
Poster Location: 16
Poster Title: "The Best Interests of the Child:" Parental Claims in Nebraska Child Custody Cases, 1877-1924
Adviser: Katrina Jagodinsky

Ethan Clinchard
Research Group: UCARE
Poster Location: 7
Poster Title: The Life and Legacy of Roy Long
Adviser: Beth Dotan

Ethan Van Winkle
Research Group: National Nanotechnology Coordinated Infrastructure Research Experience for Teachers
Poster Location: 192
Poster Title: Constructing an Economical Temperature Regulated UV-Vis Setup for Measuring the Antioxidant Activities of Chemicals
Adviser: Chin Li Cheung

Evan Bourke
Research Group: Nebraska Summer Research Program
Poster Location: 159
Poster Title: Developing Augmented Reality Demos for Use in Physics Education
Adviser: Kees Uiterwaal

Evelyn Reyes
Research Group: Nebraska Summer Research Program
Poster Location: 106
Poster Title: Microplastics And Antibiotics: Exploring Their Distribution and Impact In Surface Water
Adviser: Shannon Bartelt-Hunt

Francesca Mamani
Research Group: Nebraska Summer Research Program
Poster Location: 26
Poster Title: Perceptions of Economic Hardship and Aspirations for Higher Education of Rural Latino Adolescents
Adviser: Lorey Wheeler

Gabriel Pantusa
Research Group: Nebraska Summer Research Program
Poster Location: 87
Poster Title: Annotation of Adipocyte Lipid Factors
Adviser: Robert Powers

Gabriella Rizzo
Research Group: Nebraska Summer Research Program
Poster Location: 58
Poster Title: Methanogenesis from calcium carbonate in the presence of Martian regolith simulant and characterization of *Methanobacterium* sp. ACI
Adviser: Karrie Weber

**Gabrielle Hope**
Research Group: Nebraska Summer Research Program
Poster Location: 11
Poster Title: Habeas Corpus In Nebraska: A Statutory Review
Adviser: Katrina Jagodinsky

**Gonzalo Ortiz**
Research Group: Nebraska Summer Research Program
Poster Location: 151
Poster Title: Pinning and Depinning of Magnetic Domain Walls
Adviser: Shireen Adenwalla

**Grace Kevin-Aligah**
Research Group: Nebraska Summer Research Program
Poster Location: 15
Poster Title: Taking Refuge From Habeas in the Early 20th Century: Women's Efforts to Remain in the Omaha Salvation Army Rescue Home
Adviser: Katrina Jagodinsky

**Graciela Couret Morales**
Research Group: Nebraska Summer Research Program
Poster Location: 74
Poster Title: Investigating Potential Probiotics for Ability to Inhibit Clostridioides difficile Infection
Adviser: Dr. Jennifer Auchtung

**Gwenyth Coleman**
Research Group: Nebraska Summer Research Program
Poster Location: 33
Poster Title: Sugar and Plant Tissue Analysis of Pollinator Garden-Collected Mosquitoes
Adviser: Troy Anderson and Leslie Rault

**Hannah Allen**
Research Group: Nebraska Summer Research Program
Poster Location: 95
Poster Title: Cattle Upland Grazing Preferences in a Patch-Burn Grazing System
Adviser: Daniel Uden

**Hannah Nguyen**
Research Group: UCARE
Poster Location: 48
Poster Title: Effects of Point Mutations of Aspartate in the 91st position on the Enzyme Activity of Yeast Mitochondrial MDH
Adviser: Jing Zhang
Hannah Tang
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 186
Poster Title: Visualizing and processing pancreatic cancer images
Adviser: Hongfeng Yu

Henry Jones
Research Group: Nebraska Summer Research Program
Poster Location: 163
Poster Title: Simulating Ray Optics in Augmented Reality
Adviser: Herman Batelaan

Henry Michaelson
Research Group: Nebraska Summer Research Program
Poster Location: 127
Poster Title: Link Budget Design for UAV Networks in 5G and Beyond
Adviser: Shuai Nie

Hermione Lofton
Research Group: Geophysics Lab
Poster Location: 196
Poster Title: Developing a Scientific Database of the North Atlantic
Adviser: Irina Filina

India Watson
Research Group: Nebraska Summer Research Program
Poster Location: 30
Poster Title: Screening For Resistance in Sorghum Against Sugarcane Aphid Feeding
Adviser: Joe Louis

Isabella Phillips
Research Group: Nebraska Summer Research Program
Poster Location: 119
Poster Title: Methodology in Novel Object Recognition: Object and Arena Validation
Adviser: Forrest Kievit

Isabelle Childs
Research Group: Nebraska Summer Research Program
Poster Location: 13
Poster Title: Habeas at Home and Heart: Progressive Era Cases of Spousal Confinement to Nebraska's Psychiatric Hospitals
Adviser: Katrina Jagodinsky

Isabelle Juhler
Research Group: Nebraska Summer Research Program
Ivana Lopez
Research Group: Nebraska Summer Research Program
Poster Location: 111
Poster Title: Resilience of Agricultural Infrastructure to Windstorms: Center Pivot Irrigators
Adviser: Christine E. Wittich

Jacob Larsen
Research Group: UCARE
Poster Location: 195
Poster Title: Paper-based Platform for Enhanced Quantification of Extracellular Nitric Oxide Concentration Using Single-walled Carbon Nanotube Sensors
Adviser: Nicole Iverson

Jacquez Daniels
Research Group: Nebraska Summer Research Program
Poster Location: 44
Poster Title: Potential of Black Soldier Fly Larvae as a Biocontrol Agent for Stable Fly Larvae
Adviser: Gary Brewer

Jada Iwuoha
Research Group: Nebraska Summer Research Program
Poster Location: 110
Poster Title: Electric Vehicles Crashworthiness and Analysis of Collision Trends.
Adviser: Mojdeh Asadollahi Pajouh

Jarod Harris
Research Group: Nebraska Center for Energy Sciences Research
Poster Location: 142
Poster Title: Effect of Polymer Molecular Weight on CO2 Sorption Capacity in Supported Ionic Liquid Membranes
Adviser: Mona Bavarian

Jay Schneider
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 172
Poster Title: Trends in Extreme Heat Events Across Nebraska from 1981-2022
Adviser: Liang Chen

Jayden Schriner
Research Group: Nebraska Summer Research Program
Poster Location: 71
Poster Title: Optimization of Falling-Film Plasma Reactors for the Degradation of Organic Dyes
Adviser: Chin Li Cheung

Jennie Nguyen
Research Group: UCARE
Poster Location: 43
Poster Title: Stability and solubility of RBM7 protein in vitro
Adviser: Catherine Eichhorn

Jenny Olander
Research Group: UCARE
Poster Location: 169
Poster Title: Adaptive Optical Alignment System for In Situ & 3D Printing of Optical Waveplates for Terahertz
Adviser: Eva Schubert

Jess McThomas
Research Group: Nebraska Summer Research Program
Poster Location: 88
Poster Title: Understanding the Functional and Structural Mechanisms of WhiB1 in M. Tuberculosis
Adviser: Limei Zhang

Jessica Momanyi
Research Group: Nebraska Summer Research Program
Poster Location: 139
Poster Title: A Response to Crisis: Instructor Facilitation of Learning Communities as seen in Syllabi
Adviser: Grace Panther, Heidi Diefes-Dux

Joe Staab
Research Group: Nebraska Summer Research Program
Poster Location: 90
Poster Title: To Determine the Biological Interactions of Stabilin-Ligand Binding Complexes
Adviser: Edward Harris

Joiner Pfister
Research Group: UCARE
Poster Location: 152
Poster Title: Synthetic biology toolkit for Paraburkholderia sacchari to enhance native bioplastic production
Adviser: Rajib Saha

Jonah Reynolds
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 189
Poster Title: Plotting the De Broglie-Bohm Theory
Adviser: Herman Batelaan

Jonathan Wear
Research Group: Geophysics Lab
Poster Location: 196
Poster Title: Analyzing the crustal nature of the Norwegian margin from regional magnetic anomalies
Adviser: Irina Filina

Joseph Tighi
Research Group: UCARE
Poster Location: 153
Poster Title: Effects of Polypropylene Waste Plastic on the Mechanical Performance of Asphalt Concrete
Adviser: Jamilla Teixeira

Josephine Ivy
Research Group: UCARE
Poster Location: 3
Poster Title: Expanding Access to Outdoor Education Opportunities for Marginalized Communities in Central Nebraska
Adviser: Jenny Keshwani

Joy Duan
Research Group: Nebraska Summer Research Program
Poster Location: 77
Poster Title: Effects of sorghum fiber on disease severity in a T cell-driven mouse model of inflammatory bowel disease
Adviser: Amanda Ramer-Tait

Julia Domínguez
Research Group: Nebraska Summer Research Program
Poster Location: 22
Poster Title: Navigating within Change: Polyvictimization and Adaptive Social Networks as a Buffer to COVID-19 as Trauma
Adviser: Arthur R Andrews III

Julia Steffensmeier
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 185
Poster Title: Molecular Orientation and Water Uptake of Fuel Cell Ionomers
Adviser: Shudipto Dishari

Julian Auchtung
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 176
Poster Title: DLP Optimization of Porous Zirconia for Artificial Bone Fabrication
Adviser: Bai Cui

Justin Severson
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 174
Poster Title: Methods and Results of Actual Temperature Trends Across Nebraska
Adviser: Liang Chen

Kassandra Ramos
Research Group: Nebraska Summer Research Program
Poster Location: 92
Poster Title: Co-infection of herpes viruses with human papillomavirus among HIV-positive women in Tanzania
Adviser: Peter C. Angeletti

Keegan Nitsch
Research Group: Nebraska Center for Energy Sciences Research
Poster Location: 156
Poster Title: A Study on Electrocatalytic Nanoelectrode Using Local Electrochemistry
Adviser: Ravi F. Saraf

Khaleb Pafford
Research Group: Nebraska Center for Energy Sciences Research
Poster Location: 157
Poster Title: Nationwide Trends of Battery Electric Vehicle Crashes
Adviser: Cody Stolle

Kian Dannelly
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 173
Poster Title: Review About 3D Printing Methods
Adviser: Eva Schubert

Kota Aono
Research Group: Nebraska Summer Research Program
Poster Location: 54
Poster Title: Reconstructed skin dermal layers using 3D biofabrication for skin regeneration
Adviser: Ruiguo Yang

Kwesi Kumi
Research Group: Nebraska Summer Research Program
Poster Location: 79
Poster Title: Dissecting function of the gene model Gm20P that governs the soybean QTL cqSeed protein-003
Adviser: Tom Clemente

Kyle Lockwood
Research Group: Nebraska Summer Research Program
Poster Location: 70
Poster Title: High Pressure Manipulation of Molecular Interactions in Ferroelectric Polymers
Adviser: Yinsheng Guo

Kylie Nguyen
Research Group: UCARE
Poster Location: 48
Poster Title: Effects of Point Mutations of Aspartate in the 91st Position on the Enzyme Activity of Yeast Mitochondrial MDH.
Adviser: Jing Zhang

Kyra Martindale
Research Group: Nebraska Summer Research Program
Poster Location: 55
Poster Title: Additive Manufacturing of Functional Emulsions to Spatially Control Mechanical Properties
Adviser: Eric Markvicka

Laura Kirshenbaum
Research Group: UCARE
Poster Location: 40
Poster Title: Developing a Method to Increase the Dynamic Range of Gene Expression in Methanogens
Adviser: Nicole Buan

Laurene Lee
Research Group: UCARE
Poster Location: 4
Poster Title: Causes of Provocation: An Electoral Analysis
Adviser: Robert Schub

Lily Scholnik
Research Group: Nebraska Summer Research Program
Poster Location: 132
Poster Title: Variable Geometry Laparoscopic Instrument
Adviser: Carl Nelson

Lincoln Graham
Research Group: UCARE
Poster Location: 6
Poster Title: The Depths of the Digital Archives
Adviser: Robert Twomey

Linda Acho
Research Group: UCARE
Poster Location: 9
Poster Title: Investigating the Correlation Between: Oral and Cervical Cancers Coursed by Human Papilloma Virus (HPV) and the Role Of HIV/AIDS in Such Cases in Sub-Saharan Africa.
Adviser: Peter Angeletti

Linh Hua
Logan Hake
Research Group: UCARE
Poster Location: 36
Poster Title: Titers of PRRSV at Different Time Intervals
Adviser: Hiep Vu

Lola Kouretas
Research Group: Nebraska Summer Research Program
Poster Location: 69
Poster Title: Synthesis of unnatural amino acids containing aryl diazonium groups
Adviser: James Checco

Lucas Kramer
Research Group: Nebraska Summer Research Program
Poster Location: 78
Poster Title: Impact of Genetic Mutation on Sweet Corn Crop Components
Adviser: David Holding

Luis Flores
Research Group: Nebraska Summer Research Program
Poster Location: 67
Poster Title: Aptamers Against Neuropeptide-Y for a Mouse Brain Neurochemical Sensor
Adviser: Luis Flores

Luyang Zhang
Research Group: Nebraska Summer Research Program
Poster Location: 100
Poster Title: A Quantitative Genetic Analysis of Sorghum Responses to High and Low Soil Nitrogen Application
Adviser: James Schnable

Lynnette Frey
Research Group: National Nanotechnology Coordinated Infrastructure Research Experience for Teachers
Poster Location: 191
Poster Title: Active Mixing for Dual Extrusion Ink Writing
Adviser: Eric Markvicka

Maalini Krishna
Research Group: Nebraska Summer Research Program
Poster Location: 164
Poster Title: Observation of Linear and Circular Dichroism in Ellipsometric Studies of Chiral Metallic Nanostructures
Adviser: Timothy Gay
Madelyn Milharcic  
Research Group: Nebraska Summer Research Program  
Poster Location: 136  
Poster Title: Complexion of the Complex: Engineering Course Environment Complexity Trends  
Adviser: Grace Panther

Maeve Allen  
Research Group: Nebraska Summer Research Program  
Poster Location: 20  
Poster Title: The Influence of Program Facilitators on the Personal and Queer Identity Development of Youth  
Adviser: Katie Edwards

Magaly Del Rello  
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns  
Poster Location: 175  
Poster Title: Two-Dimensional (2D) MoS2 Field Effect Transistor  
Adviser: Xia Hong

Magdalene Peklo  
Research Group: UCARE  
Poster Location: 170  
Poster Title: Investigating geometric and material properties of Arabidopsis thaliana guard cells  
Adviser: Joseph A. Turner

Maria Alvarado  
Research Group: Nebraska Summer Research Program  
Poster Location: 62  
Poster Title: Remediation of Polystyrene Nanoplastics in Aqueous Solutions Using Plasma-Activated Water  
Adviser: Chin Li Cheung

Marie Shaffer  
Research Group: Nebraska Summer Research Program  
Poster Location: 84  
Poster Title: Arabinoxylan Concentrations of Wheat with High Water Absorption  
Adviser: Devin Rose, Katherine Frels

Mason Chandler  
Research Group: Nebraska Summer Research Program  
Poster Location: 32  
Poster Title: Evaluation of Artificial Diets for Monarch Caterpillar Development  
Adviser: Ana Velez

Matthew Cvach  
Research Group: Nebraska Summer Research Program  
Poster Location: 135
Poster Title: Learning Management Systems (LMS) Feature Use in Core 2nd and 3rd Year Civil Engineering Courses
Adviser: Grace Panther, Heidi Diefes-Dux

Mauricio Velasco
Research Group: Nebraska Summer Research Program
Poster Location: 149
Poster Title: Analyzing Nanoparticle Properties on Hematite and Magnetite
Adviser: Abdelghani Laraoui

Maxwyll McConnell
Research Group: UCARE
Poster Location: 168
Poster Title: Graphene-Reinforced 316L Stainless Steel Prepared via Selective Laser Melting Additive Manufacturing
Adviser: Wen Qian

Megan Santamore
Research Group: Nebraska Summer Research Program
Poster Location: 131
Poster Title: Development of a Tungsten and Liquid Metal Based Matching Layer for Improved Signal Transmission within Wearable Transcranial Doppler Ultrasound Device
Adviser: Eric Markvicka

Melina Kostal
Research Group: UCARE
Poster Location: 1
Poster Title: Travel Study as a Vehicle of Teacher Preparation: A Design Research-Oriented Self Study
Adviser: Ted Hamann

Michael Wu
Research Group: Nebraska Summer Research Program
Poster Location: 137
Poster Title: Chart the course: Identifying the presence of technical and professional skills in engineering syllabi over time
Adviser: Grace Panther, Heidi Diefes-Dux

Mohamed Radalla
Research Group: Nebraska Summer Research Program
Poster Location: 129
Poster Title: DroneQuest: A Human-Drone Interaction Game for STEM Outreach
Adviser: Justin Bradley

Monae Davis
Research Group: Nebraska Summer Research Program
Poster Location: 76
Poster Title: Effect of Microbiota Accessible Carbohydrates Concentration on the Metabolism of the Gut Microbiota from Different Fecal Donors
Adviser: Jennifer Auchtung

Monica Calkins
Research Group: Nebraska Summer Research Program
Poster Location: 63
Poster Title: Synthesis of Nitroxide Amino Acid Spin-Label
Adviser: Andrzej Rajca

Morgan Madsen
Research Group: UCARE
Poster Location: 196
Poster Title: Summarizing Seismic Survey Results Over the Norwegian Margin
Adviser: Irina Filina

Morgan McCaskill
Research Group: Nebraska Summer Research Program
Poster Location: 126
Poster Title: Implementing Tracking Abilities for Sensor Retrieval in USVs Using Computer Vision
Adviser: Justin Bradley

Myles Sam
Research Group: Nebraska Summer Research Program
Poster Location: 82
Poster Title: Effect of tannins on the ability of Faecalibacterium prausnitzii to colonize mice harboring a human gut microbiome
Adviser: Amanda Ramer-Tait

Natalie Kotlin
Research Group: Nebraska Summer Research Program
Poster Location: 68
Poster Title: Determining Pharmaceutical Waste in the Environment
Adviser: David S. Hage

Nicholas Wayman
Research Group: UCARE
Poster Location: 120
Poster Title: Catalysts for O2 Reduction on Gas-Diffusion Layer
Adviser: Siamak Nejati

Nikole Salas
Research Group: Nebraska Summer Research Program
Poster Location: 81
Poster Title: Utilizing Camelina Seed Mucilage Based Bioaerogels as a Novel Thickening Agent in 3-D Food Printing
Adviser: Ozan Ciftci
Nina Raghavan
Research Group: Nebraska Summer Research Program
Poster Location: 147
Poster Title: Fabrication and characterisation of nonvolatile ferroelectric field effect transistors with free standing Pb(Zr,Ti)O3 top gated ReS2
Adviser: Xia Hong

Nolan Pettit
Research Group: Nebraska Summer Research Program
Poster Location: 128
Poster Title: Interference Modeling and Mitigation Strategies for UAV Communications in 5G Networks
Adviser: Shuai Nie

Ojusvi Gudi
Research Group: Nebraska Summer Research Program
Poster Location: 123
Poster Title: Pymavswarm: Enabling Efficient Swarm Control
Adviser: Justin Bradley

Paean Luby
Research Group: Nebraska Summer Research Program
Poster Location: 125
Poster Title: Comparing Object Detection Algorithms for Energy-Constrained Human-Following Robots
Adviser: Justin Bradley, Brittany Duncan, Dung Hoang Tran

Patricia Parish
Research Group: UCARE
Poster Location: 2
Poster Title: Exploring Self-Efficacy Through Self-Study
Adviser: Kara Viesca

Patrick Brien
Research Group: Nebraska Summer Research Program
Poster Location: 160
Poster Title: Laser effect on Gallium Arsenide Conductivity
Adviser: Herman Batelaan

Patrick Gutierrez
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 180
Poster Title: Electrochemistry: Fundamentals and Applications of Catalysis
Adviser: Siamak Nejati

Patrick Hayden
Research Group: Nebraska Summer Research Program
Poster Location: 162
Poster Title: Directional Emissivity with Angled Structures Produced via Femtosecond Laser Surface Processing
Adviser: Craig Zuhlke

Quentin Walker
Research Group: Nebraska Summer Research Program
Poster Location: 133
Poster Title: Optimizing Transducer Placement of a Wearable Ultrasound Device for Measuring Cerebral Blood Flow
Adviser: Greg Bashford

Rachamim Zamek
Research Group: UCARE
Poster Location: 154
Poster Title: Impacts of Bridge Infrastructure Ownership on Flood Resilience.
Adviser: Christine Wittich

Rachel Tuma
Research Group: Nebraska Summer Research Program
Poster Location: 28
Poster Title: Unmasking Silence: Exploring Identity and Social Perceptions in Transgender Sexual Assault Disclosure
Adviser: Lorey Wheeler

Rane Parr
Research Group: Nebraska Summer Research Program
Poster Location: 97
Poster Title: Unveiling the Benefits: Long-Term Impacts Of Cover Crops On Soil Health In No-Till Corn-Soybean-Wheat Systems
Adviser: S. Carolina Cordova

Reese Yeatman
Research Group: Nebraska Summer Research Program
Poster Location: 47
Poster Title: The Benefits of Black Soldier Flies: The Effects of Hermetia illucens on Soil Microbiota
Adviser: Georgina Bingham

Rianna Morrone
Research Group: Nebraska Summer Research Program
Poster Location: 27
Poster Title: Reporting Physical Abuse in the U.S.
Adviser: Arthur R Andrews III

Ryan Herman
Research Group: UCARE
Poster Location: 37
Poster Title: Adaptations of Interferon Regulatory Factors 5 and 6
Adviser: Ryan Herman

Ryan Humeniuk
Research Group: Nebraska Summer Research Program
Poster Location: 23
Poster Title: Delta 8? In My State? It's More Likely Than You Think: An Overview of Who is Using Delta 8 THC in Nebraska
Adviser: Patrick Habecker

Ryleigh Grove
Research Group: UCARE
Poster Location: 35
Poster Title: Automatic Visual Recognition of Native Nebraskan Snakes
Adviser: James Schnable

Ryley Hall
Research Group: Nebraska Summer Research Program
Poster Location: 45
Poster Title: Parasitic Wasps on Milkweed
Adviser: Tom Weissling

Saicharith Vaitla
Research Group: UCARE
Poster Location: 134
Poster Title: An Empirical Study on How Developers Detect Defects in UML Class Diagrams
Adviser: Bonita Sharif

Sam Spencer
Research Group: UCARE
Poster Location: 49
Poster Title: Using Environmental DNA Techniques Towards the Conservation of an Endangered Species
Adviser: Thomas Powers

Sam Koebernick
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 182
Poster Title: Investigating the effects of Laser Shock Peening in the porosity of additively manufactured polymers
Adviser: Li Tan

Samuel Peterson
Research Group: UCARE
Poster Location: 120
Poster Title: Catalysts for O2 Reduction on Gas Diffusion Layer
Adviser: Siamak Nejati
Sandy Nguyen  
Research Group: Nebraska Summer Research Program  
Poster Location: 53  
Poster Title: Exploring a Predicted Mitochondrial CO2 Recapture Mechanism in the Alga Chlamydomonas  
Adviser: Heriberto Cerutti

Santiago Zuniga  
Research Group: Nebraska Summer Research Program  
Poster Location: 18  
Poster Title: Financial Crimes Revealed by Habeas Corpus in Nebraska 1885-1924  
Adviser: Katrina Jagodinsky, William G. Thomas

Sergio Ambriz  
Research Group: Nebraska Summer Research Program  
Poster Location: 150  
Poster Title: Synthesis and Mechanical Properties of 2D Perovskites  
Adviser: Yanan (Laura) Wang

Shawna Itakura  
Research Group: Nebraska Summer Research Program  
Poster Location: 24  
Poster Title: How do Messages About Genital Hygiene Influence Sexual Health In College Age Women?  
Adviser: Tierney Lorenz

Sherman Cravens  
Research Group: Nebraska Summer Research Program  
Poster Location: 75  
Poster Title: There's More To It Than Astronaut Ice Cream!: An exploration into the process of freeze drying, necessary equipment, and the potential impact freeze drying can have on the 21st century diet and home.  
Adviser: Mary Grace Danao

Shrey Agarwal  
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns  
Poster Location: 190  
Poster Title: Evaluating Large Language Models in Solving Math Word Problems  
Adviser: Hamid Bagheri, Lisong Xu

Silvia Foss  
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns  
Poster Location: 177  
Poster Title: Characterization of Aptamers for Neuropeptide Y  
Adviser: Rebecca Lai

SJ Kim  
Research Group: Nebraska Summer Research Program
Poster Location: 25
Poster Title: Identifying Mischievous Responses in Online Survey of LGBTQIA2S+ Youth
Adviser: Katie Edwards

Sofia Ayala
Research Group: Nebraska Summer Research Program
Poster Location: 31
Poster Title: Role of fall armyworm frass in modulating sorghum defenses
Adviser: Joe Louis

Sofia Sarroub-Le Sueur
Research Group: Nebraska Center for Materials and Nanoscience and Young Nebraska Scientists High School Interns
Poster Location: 184
Poster Title: First Principles Investigation of Properties of Pt-water Interfaces
Adviser: Vitaly Alexandrov

Somi Mbaukwu
Research Group: Nebraska Summer Research Program
Poster Location: 17
Poster Title: "The "Human Dog Pound:" Omaha Women's Detention Home & Habeas in the Progressive Era
Adviser: Katrina Jagodinsky

Sophia Hayes
Research Group: Nebraska Summer Research Program
Poster Location: 14
Poster Title: "Purely Eugenic" : Habeas Corpus & Resisting Sterilization in Nebraska, 1915 -1924
Adviser: Katrina Jagodinsky

Spencer Cooper-Ohm
Research Group: Nebraska Summer Research Program
Poster Location: 21
Poster Title: Factors Associated with Gaps in Naloxone Knowledge: Evidence from a 2022 Great Plains Survey
Adviser: Patrick Habecker

Sukaina Al-Hamedi
Research Group: UCARE
Poster Location: 10
Poster Title: Optimization of Two Peroxidase Activity Assays to Determine Pro-Inflammatory Activities of Innate Immune Cell Populations
Adviser: Amanda Ramer-Tait

Tatiana Startseva
Research Group: UCARE
Poster Location: 104
Poster Title: Simultaneous calibration of antenna locations and n(z) for the Radio Neutrino Observatory in Greenland.
Taylor Pettit
Research Group: Nebraska Summer Research Program
Poster Location: 166
Poster Title: Glancing Angle Deposited All Dielectric Distorted L-Shape ‘Boomerang’ Metamaterial Platforms: A New Route for Molecular Sensing
Adviser: Eva Franke-Schubert

Thomas Butler
Research Group: Nebraska Summer Research Program
Poster Location: 161
Poster Title: Saturation of Fluorescein in Ultrafast Laser Pulses
Adviser: Cornelis Uiterwaal

Tori Vondra
Research Group: Nebraska Summer Research Program
Poster Location: 93
Poster Title: Amyloid Precursor Protein Regulates c-fos Expression in Zika Virus-Mediated Paralysis
Adviser: Luwen Zhang

Trinity Jackson
Research Group: Nebraska Summer Research Program
Poster Location: 101
Poster Title: Evaluation of Lettuce Productivity and Quality
Adviser: Yeyin Shi

Truman Stoller
Research Group: Nebraska Center for Energy Sciences Research
Poster Location: 144
Poster Title: Flow Boiling with Femtosecond Laser Processed Surfaces and Dielectric Working Fluid
Adviser: George Gogos

Vanessa Njoku
Research Group: Nebraska Summer Research Program
Poster Location: 80
Poster Title: Production of Enriched Vigna unguiculata (Black-eyed beans) Milk and Physiochemical Profile Evaluation
Adviser: Devin Rose

ViolaMay Simwanza
Research Group: Nebraska Summer Research Program
Poster Location: 72
Poster Title: Peroxide Reactivity with an Iron(II)-Borane Complex
Adviser: Patrick H. Dussault

Wes Sliger
Research Group: National Nanotechnology Coordinated Infrastructure Research Experience for Teachers
Poster Location: 194
Poster Title: Laser Shock Peening Effects on Additively Manufactured Polymers
Adviser: Li Tan

Wyatt Morse
Research Group: UCARE
Poster Location: 42
Poster Title: Observing a possible volatile signaling phenomenon in Chlorella Sorokiniana.
Adviser: Wayne Riekhof

Yuhki Ueda
Research Group: Nebraska Summer Research Program
Poster Location: 29
Poster Title: The Pathway from Preschool Emotion Socialization to Adolescent Psychopathology: The Mediating Effect of Preadolescent Emotion Regulation
Adviser: Timothy Nelson