



# August 3<sup>rd</sup>, 2023: Directory of Undergraduate Student Presenters

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## Poster Details – Alphabetical by First Name

### 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 viscosa* 03-3 WT, *E. viscosa* 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 Vagueness? 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 Cr<sub>2</sub>TiC<sub>2</sub>T<sub>x</sub> 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)<sub>2</sub>-TCNQ 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 Ibrahimasic

### 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  
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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

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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  
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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  
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Poster Title: Micromagnetic Monte Carlo Simulations of Disordered Materials  
Adviser: Robert Streubel

### Elana Arazi

Research Group: Nebraska Summer Research Program  
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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

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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

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Poster Title: Developing Augmented Reality Demos for Use in Physics Education

Adviser: Kees Uiterwaal

### Evelyn Reyes

Research Group: Nebraska Summer Research Program

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Poster Title: Microplastics And Antibiotics: Exploring Their Distribution and Impact In Surface Water

Adviser: Shannon Bartelt-Hunt

### Franccesca Mamani

Research Group: Nebraska Summer Research Program

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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

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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

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Poster Title: Habeas Corpus In Nebraska: A Statutory Review

Adviser: Katrina Jagodinsky

### Gonzalo Ortiz

Research Group: Nebraska Summer Research Program

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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

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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

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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

Poster Location: 91

Poster Title: Impacts of Host Environment on West Nile Virus Replication

Adviser: Nicole R. Sexton

### 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 CO<sub>2</sub> 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 Dominguez

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

Research Group: UCARE

Poster Location: 39

Poster Title: Determine the residues of SRSF2 involved in 7SK RNA binding

Adviser: Catherine Eichhorn

### 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) MoS<sub>2</sub> 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 O<sub>2</sub> 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)O<sub>3</sub> top gated ReS<sub>2</sub>

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

### **Paeon 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 O<sub>2</sub> 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 CO<sub>2</sub> 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-Hamed

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.

Adviser: Ilya Kravchenko

### **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