

# **UURAF 2022 First Place Winners**

*Revised April 21, 2022*

## ***Agriculture & Animal Science***

Agriculture & Animal Science Section 1 (Poster)

*Presenter Name:* Ellie Zebas

*Title:* Host Evaluation of Selected Oilseed Radishes as Cover Crops for Beet Cyst Nematode

Agriculture & Animal Science Section 2 (Poster)

*Presenter Name:* Carolina Pratas Glycerio de Freitas

*Title:* Relating Leaf Area Index to sorghum canopy traits

Agriculture & Animal Science Section 3 (Poster)

*Presenter Name:* Jordan Gembariski, Caden Opsommer, Bailey Walker

*Title:* The COVID Animal Fostering Boom: Ephemera or Chimera?

Agriculture & Animal Science Section 4 (Oral)

*Presenter Name:* Avery Tilley

*Title:* Detection of sparse species of special concern utilizing a multiplex edna approach: redbelt dace (*Clinostomus elongatus*) and brook trout (*Salvelinus fontinalis*) in the Ottawa National Forest

## ***Anthropology & Archeology***

Anthropology & Archeology Section 1 (Poster)

*Presenter Name:* Maegan Jankowski

*Title:* An Osteobiographical Analysis of Skeletal Remains and Beaded Artifact From Caesarea Maritima

Anthropology & Archeology Section 2 (Poster)

*Presenter Name:* Mariah Larr

*Title:* Analysis of Human Remains from the Caesarea Maritima archaeological site

Anthropology & Archeology Section 3 (Poster)

*Presenter Name:* Jason Pasikowski

*Title:* Genetic distance mapping of Caesaria Maritima using nonmetric traits of the human skull.

Anthropology & Archeology Section 4 (Oral)

*Presenter Name:* Ian Donahue

*Title:* MSU and the Jewish Community: a Student Ethnography in Uncertain Times

## ***Biochemistry & Molecular Biology***

Biochemistry & Molecular Biology Section 1 (Poster)

*Presenter Name:* Jessica Egleston

*Title:* Structural Comparison between Small Multidrug Resistance (SMR) Transporter Family Members through Molecular Dynamics Simulations

Biochemistry & Molecular Biology Section 2 (Poster)

*Presenter Name:* Jaylynn Jones

*Title:* Generating a bidirectional communication pathway between E.coli and Cyanobacteria

Biochemistry & Molecular Biology Section 3 (Poster)

*Presenter Name:* Jarrod Griffus

*Title:* Optimizing the Protein Solubility and Yield of CfACT1-6 and CfACT1-8

Biochemistry & Molecular Biology Section 4 (Oral)

*Presenter Name:* Drew Mitchell

*Title:* Bacterial Microcompartment Production in Arabidopsis thaliana: A Synthetic Approach

## ***Business***

Business Section 1 (Poster)

*Presenter Name:* Emma Catalina, Melissa Kreger, Courtney Palkowski

*Title:* Getting Michigan Companies Into International Markets: the MEGP Program

Business Section 2 (Poster)

*Presenter Name:* Jacob Surbrook

*Title:* DEI on Wall Street: Does the presence of a Chief Diversity Officer (CDO) yield greater stock returns?

## ***Cell Biology, Genetics & Genomics***

Cell Biology, Genetics & Genomics Section 1 (Poster)

*Presenter Name:* Carolyn Stults

*Title:* Disruption of a putative caspase site within DNA-PKcs results in increased resistance to DNA damaging agents.

Cell Biology, Genetics & Genomics Section 2 (Poster)

*Presenter Name:* Aya Latif

*Title:* Development and Characterization of a Novel RNF216 Conditional Knockout Model in Mouse Testes

Cell Biology, Genetics & Genomics Section 3 (Poster)

*Presenter Name:* Josie Kleve

*Title:* Toward a Gene Expression Profile for Palate Periderm

Cell Biology, Genetics & Genomics Section 4 (Poster)

*Presenter Name:* Anna Heath

*Title:* Tumorigenic potential of triclosan, an antimicrobial ingredient found in common household products.

Cell Biology, Genetics & Genomics Section 5 (Oral)

*Presenter Name:* Katherine Lauro

*Title:* Engineering Extracellular Vesicles as IGF-1 Gene Delivery Vehicles for Type 1 Diabetes

Cell Biology, Genetics & Genomics Section 6 (Oral)

*Presenter Name:* Grant Bruninga

*Title:* Microsatellite Genotyping of Lake Herring

## ***Communication Arts & Sciences***

Communication Arts & Sciences Section 1 (Poster)

*Presenter Name:* Kayla Arafat, Jenna Fisher, Kori Kloostra, Cameron Martin, Erika Mueller, Olivia Parker

*Title:* Issues in Reliable and Valid Transcription of Stuttered Speech Using CLAN

Communication Arts & Sciences Section 2 (Oral)

*Presenter Name:* Nicoline Bradford, Grace Cyporyn, Julius Patto, Jennifer Rousseau

*Title:* Street Teams and Lansing Art Gallery

Communication Arts & Sciences Section 3 (Film)

*Presenter Name:* Panathip Chimrak, Juhua Huang, Apichaya Thaneerat, Claudia Lim, Nadiah Mohamed Hasnol

*Title:* Why Won't They Write Grammatically?

## ***Criminal Justice & Legal Studies***

Criminal Justice & Legal Studies Section 1 (Poster)

*Presenter Name:* Maddie Allen

*Title:* Are More Protective Factors Or Factor Groupings Associated With Fewer Future Court Petitions Among Adjudicated Youth?

## ***Diversity & Interdisciplinary Studies***

Diversity & Interdisciplinary Studies Section 1 (Poster)

*Presenter Name:* Lexi Nadolsky, Arika Hawkins

*Title:* Out of Sight, Out of Mind: Epistemic Exclusion of People of Color Across STEM disciplines

## ***Education***

Education Section 1 (Poster)

*Presenter Name:* Sam Bourgeois, Ellie Friedman

*Title:* Assessing Writing in Children Who Use African American English: The Impact of a Culturally Responsive Scoring Approach in Grades 3-4

## ***Engineering, Computer Science & Mathematics***

Engineering, Computer Science & Mathematics Section 1 (Poster)

*Presenter Name:* Allison Huckins

*Title:* Soybean-Derived Photopolymer Resins: Characterization of Surface and Bulk Properties

Engineering, Computer Science & Mathematics Section 2 (Poster)

*Presenter Name:* Bonnie Stolt

*Title:* Origins of Ultralow Thermal Conductivity in  $\text{KAg}_2\text{SbS}_4$

Engineering, Computer Science & Mathematics Section 3 (Poster)

*Presenter Name:* Emily Kelly

*Title:* Thumb Motion: A New View

Engineering, Computer Science & Mathematics Section 4 (Oral)

*Presenter Name:* Julia Zera, Areebah Mahdia

*Title:* Patterns in the Reciprocals of Primes

Engineering, Computer Science & Mathematics Section 5 (Oral)

*Presenter Name:* Andrew Mcdonald

*Title:* Beyond Point Prediction: Capturing Zero-Inflated & Heavy-Tailed Spatiotemporal Data with Deep Extreme Mixture Models

## ***Environmental Science & Natural Resources***

Environmental Science & Natural Resources Section 1 (Poster)

*Presenter Name:* Vincent Marinelli

*Title:* Quantifying Fouling and Cleaning Cycles on Membrane Surface Chemistry

Environmental Science & Natural Resources Section 2 (Poster)

*Presenter Name:* Aaron Sullivan

*Title:* Hot on the trail: Utilization of Radio Telemetry to track and manage invasive Red Swamp Crayfish in Michigan

Environmental Science & Natural Resources Section 3 (Poster)

*Presenter Name:* Phyllis Feldpausch, Hunter Hansen

*Title:* MSU Water-Level Sensors in Oakland County

## ***Epidemiology & Public Health***

Epidemiology & Public Health Section 1 (Poster)

*Presenter Name:* Zahra Ahmad

*Title:* Use-of-Force Policy Transparency: Michigan Sheriff and Police Departments

Epidemiology & Public Health Section 2 (Poster)

*Presenter Name:* Amulya Vankayalapati

*Title:* Assessment of Heavy Metal Contamination in Gardens of a Michigan Community with Lead Water Contamination

Epidemiology & Public Health Section 3 (Poster)

*Presenter Name:* Sydney Bush, Atef Choudhury, Sanjanasri Pothuraju, Blake Potvin

*Title:* Virus Adhesion to Fomites in Healthcare Settings: Masks, Biomedical Materials, and Other Indoor Surfaces

Epidemiology & Public Health Section 4 (Oral)

*Presenter Name:* Megha Pratapwar

*Title:* Exposure from per- and polyfluoroalkyl substances in infants through human milk

## ***Film & Digital Media***

Film & Digital Media Section 2 (Film)

*Presenter Name:* Daniel Pena, Heather Kulkis

*Title:* Minus One

## ***Global & Area Studies***

Global & Area Studies Section 1 (Poster)

*Presenter Name:* Matt Sutton

*Title:* Diversity & Inclusion in the Workplace: Practices & Strategies between France and the US

Global & Area Studies Section 2 (Oral)

*Presenter Name:* Gabby Nelson

*Title:* From Hidden Slum to Sprawling City: The Resilience of Ciudad Neza, Mexico since the 1940s

## ***Health Sciences***

Health Sciences Section 1 (Poster)

*Presenter Name:* Michael Kaven

*Title:* Vitamin D as cofactor for neurodevelopment and cognitive function

Health Sciences Section 2 (Poster)

*Presenter Name:* Kaily Kao

*Title:* Testing for Foodborne Pathogens Using E. coli O157 Biosensor

Health Sciences Section 3 (Oral)

*Presenter Name:* Lydia Kapeller

*Title:* Validation of the eyeTelemed IOPvet indentation tonometer for use in dogs

## ***History, Political Science & Economics***

History, Political Science & Economics Section 1 (Poster)

*Presenter Name:* Jack Carlson

*Title:* Toward A Moderate Antislavery Politics: Free Soil Democrats and the Making of the Free Soil Party

History, Political Science & Economics Section 3 (Oral)

*Presenter Name:* Abbie Barnum

*Title:* The Role of New York Newspapers in Perpetuating Islamophobic Stereotypes

## ***Humanities***

Humanities Section 1 (Oral)

*Presenter Name:* Berkley Sorrells

*Title:* Documenting Community: 19th Century Signature Quilts as Material Culture

Humanities Section 2 (Oral)

*Presenter Name:* Celeste Rubino, Rachel Eyre

*Title:* Establishing a Multimedia & Archival Hub for the RCAH Center for Poetry

## ***Integrative & Organismal Biology***

Integrative & Organismal Biology Section 1 (Poster)

*Presenter Name:* Heather Sayles

*Title:* The Influence of Cooperative Breeding Strategies on Reproductive Health in the Meerkat

Integrative & Organismal Biology Section 2 (Poster)

*Presenter Name:* Daniel Do

*Title:* Hatching enzyme evolution and expression in spotted gar, a model organism for vertebrate evolutionary developmental genomics

## ***Kinesiology***

Kinesiology Section 1 (Poster)

*Presenter Name:* Albertas Klugas, Nathan Sprick

*Title:* Body Composition and VO<sub>2</sub>max of Individuals with and without Anterior Cruciate Ligament Reconstruction

## ***Linguistics, Languages & Speech***

Linguistics, Languages & Speech Section 1 (Poster)

*Presenter Name:* Sarah Knappenberger

*Title:* The Effect of Priming on Speech Production

## ***Microbiology, Immunology & Infectious Disease***

Microbiology, Immunology & Infectious Disease Section 1 (Poster)

*Presenter Name:* Krishna Gogineni

*Title:* Developing RNA interference - based sex sorting system for mosquitoes

Microbiology, Immunology & Infectious Disease Section 2 (Poster)

*Presenter Name:* Dylan Luce

*Title:* Enterobacter Desiccation Resistance and Persistence on Fomites

## ***Neuroscience***

Neuroscience Section 1 (Poster)

*Presenter Name:* Olivia Dodson

*Title:* Investigating the Role of Neuromedin S in the Ventral Tegmental Area in Morphine Behaviors

Neuroscience Section 2 (Poster)

*Presenter Name:* Claire Jones

*Title:* Identifying the inhibitory circuit elements mediating motor integration in deep layers of somatosensory cortex

Neuroscience Section 3 (Poster)

*Presenter Name:* Toria Fex

*Title:* Characterizing midbrain dopamine projections to insular cortex in disrupted-in-schizophrenia-1 mice

Neuroscience Section 4 (Poster)

*Presenter Name:* Ariana Zimmerman

*Title:* Intrinsic properties and synaptic activity of striatal spiny projection neurons in a mouse model of autism

Neuroscience Section 5 (Oral)

*Presenter Name:* Hari Ramakrishnan

*Title:* Adenosine Receptor Antagonist Reduces Chemotherapy Side Effects in Mice Such as Cisplatin-Induced Kidney Toxicity and Painful Neuropathy

## ***Nutrition & Food Science***

Nutrition & Food Science Section 1 (Poster)

*Presenter Name:* Shreya Chavva, Meghana Karumuri

*Title:* Comparison of Antioxidant Content Between Various Supplements utilized during Grass-Finishing Beef on MI complex pasture

Nutrition & Food Science Section 2 (Oral)

*Presenter Name:* Viji Jambunathan

*Title:* Effects of grass-fed beef suet and liver supplementation on fatty acid profile of chicken eggs

## ***Physical Sciences***

Physical Sciences Section 1 (Poster)

*Presenter Name:* Josie Anderson

*Title:* Sediment Characterization of Martian Soil by the Phoenix Mars Lander

Physical Sciences Section 2 (Poster)

*Presenter Name:* Joseph Noonan

*Title:* A Multi-Factor Model for the Optical Transmission of Films for the Single Atom Microscope

Physical Sciences Section 3 (Poster)

*Presenter Name:* Lauren Gizinski

*Title:* Biokinetic modeling of alpha particle dose from parent decay of inhaled radon-211

Physical Sciences Section 4 (Poster)

*Presenter Name:* Kirsten Fentzke

*Title:* Probing the Magmatic Differentiation System of Mt. Kenya - Petrographic constraints from optical and electron beam analyses of crystals

Physical Sciences Section 5 (Oral)

*Presenter Name:* Mickey Mumby

*Title:* Understanding Collective Motion Inside a Nucleus

## ***Plant Sciences***

Plant Sciences Section 1 (Poster)

*Presenter Name:* Marlana DeClaire

*Title:* Drought Tolerance and Pathogen Resistance in Transgenic Williams 82 Soybeans

Plant Sciences Section 2 (Poster)

*Presenter Name:* Lille Cunic

*Title:* Identifying beneficial microbes in the Switchgrass rhizosphere

## ***Psychology***

Psychology Section 1 (Poster)

*Presenter Name:* Kyle Oliver, Frank Dolecki

*Title:* Speech understanding in difficult listening conditions

Psychology Section 2 (Poster)

*Presenter Name:* Emma Beaver

*Title:* Spectrum-Dependent Arousal in a Diurnal Rodent Model



Psychology Section 3 (Poster)

*Presenter Name:* Grace Bonnema, Sydney Logsdon, Tushya Mehta

*Title:* Narrative Processing of Music: How Culture Influences Our Perception of Music

Psychology Section 4 (Poster)

*Presenter Name:* Anna Forest, Ria Jain, Ayushi Patel, Abby Roberts, Jessica Skaff

*Title:* Reducing political differences via a closeness-building activity

Psychology Section 5 (Poster)

*Presenter Name:* Jessie Greatorex

*Title:* Examining the Social-Communication Outcomes for Medicaid Enrolled Children with Autism Spectrum Disorder Partaking in Parent-Mediated Intervention

Psychology Section 6 (Poster)

*Presenter Name:* Anusha Mamidipaka

*Title:* Contribution of lip reading to speech recognition in complex listening conditions

Psychology Section 7 (Oral)

*Presenter Name:* Gregory Marchal

*Title:* A Gamble of Life and Death: Ambiguity Aversion, Risk Preferences, and Parental Influenza Vaccination Decisions in Rural America

## ***Social Science: General***

Social Science: General Section 1 (Poster)

*Presenter Name:* Megan Lambrecht

*Title:* Agency, Support, and Empowerment of Sorority Women in Response to Sexual Violence

Social Science: General Section 2 (Poster)

*Presenter Name:* Madeline Leppek

*Title:* Paraeducator Training in Challenging Behavior

Social Science: General Section 3 (Oral)

*Presenter Name:* Joanna Myatt

*Title:* A Recipe for a More Equitable Restaurant Industry? The Role of Female Chefs in Shaping the Workplace

Social Science: General Section 4 (Oral)

*Presenter Name:* Max Martus

*Title:* England's Jews Before Expulsion: Despoiling a Diaspora

## ***Social Work***

Social Work Section 1 (Poster)

*Presenter Name:* Emily Cohen, Ava Fall, Noelle Rager

*Title:* Making Ends Meet: Differences in Neighborhood Child and Elder Care Resources in Detroit's Ethnic-Racial Communities in the Post-COVID Era

## ***Visual & Performing Arts***

Visual & Performing Arts Section 1 (Poster)

*Presenter Name:* Maegan Jankowski

*Title:* The Societal View of Heterosexual Men and Theatre in the United States; A Retrospective From the Twentieth Century Onward

Visual & Performing Arts Section 2 (Oral)

*Presenter Name:* Emma Stoolmaker

*Title:* By her hand: an investigation of gender and class through the decorative (or fine?) arts in studio practice

Visual & Performing Arts Section 3 (Exhibit)

*Presenter Name:* Aaliyah Buell

*Title:* The Community Wellbeing Series: Maintaining Community through Empowerment, and Cultural Representation

Visual & Performing Arts Section 4 (Performance)

*Presenter Name:* Alex Vonhof

*Title:* "ENVIRONMENTS"

## ***Arts & Humanities (multidisciplinary, virtual)***

Arts & Humanities (multidisciplinary) Section 1 (Virtual Poster)

*Presenter Name:* Nishtha Kakar

*Title:* Evaluation of Vocal and Lifestyle of Adult's: Impact of Video-Chat Activities

Arts & Humanities (multidisciplinary) Section 2 (Virtual Poster)

*Presenter Name:* Justin Crouch, Katie Denzin, Anel Robinson

*Title:* Sins of Commission and Omission: Do images in high school history textbooks reflect the historical diversity of the American People?

Arts & Humanities (multidisciplinary) Section 3 (Virtual Poster)

*Presenter Name:* Jennie Boulus

*Title:* Development of a Coding Scheme to Assess Emotion Conversations between Mothers and Adolescent Typically Developing Siblings of Individuals with Autism Spectrum Disorder

Arts & Humanities (multidisciplinary) Section 4 (Virtual Poster)

*Presenter Name:* Orla Young

*Title:* Different Styles of Gymnastics Practice: Looking at the Effects on Performance & Well-Being

Arts & Humanities (multidisciplinary) Section 5 (Virtual Oral)

*Presenter Name:* Kadrianna Cohen

*Title:* Police Corruption In Jamaica: Little To Zero Accountability

Arts & Humanities (multidisciplinary) Section 6 (Virtual Oral)

*Presenter Name:* Weeam Guetari

*Title:* A Review of the Education of Syrian Refugee Children in America

Arts & Humanities (multidisciplinary) Section 7 (Virtual Oral)

*Presenter Name:* Zoe Rasico

*Title:* Rewriting the Western Story of Islam

Arts & Humanities (multidisciplinary) Section 8 (Virtual Oral)

*Presenter Name:* Hannah Morse

*Title:* Ottoman Empire Millet System

Arts & Humanities (multidisciplinary) Section 9 (Virtual Oral)

*Presenter Name:* Brandon Roberts

*Title:* Ottoman Empire Millet System

Arts & Humanities (multidisciplinary) Section 10 (Virtual Performance)

*Presenter Name:* Hugh Downs

*Title:* Music: An Early Jazz Musician's Journey Into Film Scoring

Arts & Humanities (multidisciplinary) Section 11 (Virtual Oral)

*Presenter Name:* Isabelle Fanning

*Title:* History and testimony in the digital age: studying holocaust survivors (Panel 1C)

## ***Science & Engineering (multidisciplinary, virtual)***

Science & Engineering (multidisciplinary) Section 1 (Virtual Poster)

*Presenter Name:* Mary Gardella

*Title:* Does light composition impact stress levels of shelter cats?

Science & Engineering (multidisciplinary) Section 2 (Virtual Poster)

*Presenter Name:* Merlinda Sewavi

*Title:* An induced pluripotent stem cell approach to study human post-infarction remodelling and heart regeneration

Science & Engineering (multidisciplinary) Section 3 (Virtual Poster)

*Presenter Name:* Pam Jones

*Title:* Listeriosis drives perturbations in the eicosanoid pathway

Science & Engineering (multidisciplinary) Section 4 (Virtual Poster)

*Presenter Name:* Sydney Burtovoy

*Title:* The Power of Pinto Bean Flour

Science & Engineering (multidisciplinary) Section 5 (Virtual Oral)

*Presenter Name:* Alissa Ball

*Title:* Biosorption of Heavy Metals by Fungi

Science & Engineering (multidisciplinary) Section 6 (Virtual Oral)

*Presenter Name:* Eliot Haddad

*Title:* Consumption of Whole Grain Wheat has Minimal Impact on Human Gut Microbial Diversity