

UURAF 2022 First Place Winners

Revised April 12, 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 KAg_2SbS_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

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 VO₂max 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: Code-Switching within the LGBTQ+ Community

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