

University Undergraduate Research & Arts Forum 2021 - First Place Awards

Category	Sec	Type	Presenter(s)	Title
Agriculture & Animal Science	1	Oral	Renee Harbowy	Purported Insulin Modulators Do Not Alter Glycemic and Insulinemic Response When Corn is Fed to Mature Horses
Agriculture & Animal Science	2	Oral	Autumn McLane-Svoboda	The effect of shiftwork on behavior and circadian rhythms in reproductive tissues.
Agriculture & Animal Science	3	Poster	Crystal Nelson	Detection of Phytophthora from Michigan Rivers
Agriculture & Animal Science	4	Poster	Brenden Kelly	Improving Irrigation Water Use Efficiency Using Sensor Technology
Anthropology & Archeology	1	Oral	Isabella Green	Autism in Indigenous Communities
Anthropology & Archeology	2	Poster	Savannah Holcombe	Quantifying Sexual Dimorphism in Scapular Morphology
Biochemistry & Molecular Biology	1	Oral	Trevor Dalrymple	Developing a Protocol for Lipid Extraction and Quantification for <i>Bombus impatiens</i>
Biochemistry & Molecular Biology	2	Poster	Benjamin West	The Effect of Calcium on Mitochondrial Ultrastructure and Function
Biochemistry & Molecular Biology	3	Poster	Liz Christensen	Identification of transcription factors regulating acylsugar biosynthesis in the glandular trichomes of tomato
Biochemistry & Molecular Biology	4	Poster	Kate Adams-Boone	Investigating the role of TCAB1 in telomerase assembly

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Business	1	Poster	Rachel Wu	Girl Power - How Female CEOs Can Change the Game
Business	2	Poster	Devin Burst	Comparing Performance of Female and Male Led Firms
Business	3	Poster	Ashley Yearwood	Stock Market Analysis Shows How Women CEOs Perform Compared to the Average
Business	4	Poster	Nikunj Agarwal	An analysis of the social media on CSR Activities
Cell Biology, Genetics & Genomics	1	Oral	Cameron Bennett	Functional Analysis of Endothelin Ligand Genes in the Development of the Zebrafish Neural Crest Cell Population
Cell Biology, Genetics & Genomics	2	Poster	Josie Kleve	A Literature Review of Periderm in Development and Disease
Cell Biology, Genetics & Genomics	3	Poster	May Shen	Uncovering the role of ER1 and RAC1 signaling in uterine gland branching
Cell Biology, Genetics & Genomics	4	Poster	Mitchell Borin	Oxybenzone increases proliferation in Trp53-null mammary tissues in conjunction with high fat diet
Cell Biology, Genetics & Genomics	5	Oral	Mackenzie Greene	FDA Approved Drug Bicalutamide Rescues Male Mice from Kennedy's Disease
Communication Arts & Sciences	1	Oral	Mariam Sayed	Fostering Societal Transformations in Attitudes Toward Neurodiverse Populations

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Category	Sec	Type	Presenter(s)	Title
Communication Arts & Sciences	2	Poster	Elena Cousino	Content Analysis of Opinion Pieces and Hard News Stories on the Coverage of Protests in 2020
Communication Arts & Sciences	3	Poster	Alexis Furkioti, Jack Rechsteiner	MI Diaries: The Development of a Research Project as a Brand
Communication Arts & Sciences	4	Poster	Kaylee Commet, Ellen Brooks, Libby Fernau, Kaitlin Gaynor	How Electronic Toys Impact the Quality of Parent Language Input Provided to Young Children with and without Autism
Criminal Justice & Legal Studies	1	Oral	Margaret Amshay	Breaking the Glass Ceiling in the Top Criminology and Criminal Justice Doctoral Programs
Criminal Justice & Legal Studies	2	Poster	Clare Chie	The Effect of Protective Factors on Gang Involvement, Substance Abuse, and Recidivism Among Court - Involved Youth
Digital Humanities	1	Oral	Jacob Phillips, Nikita Nambiar, Jacob Okulewicz, Allison Simpson, Milena Sinistaj, Carly Wholihan	Aesthetic Divergence: Graphing the Distinct Differences in (Dis)pleasing Highlighting data
Digital Humanities	2	Oral	Akanksha Kapur, Jacob Okulewicz, Tushya Mehta	Creativity in the Time of COVID-19: Art as a Tool for Combating Inequity and Injustice
Diversity & Interdisciplinary Studies	1	Oral	Melissa Checo	Promoting diversity, equity, and inclusion within U.S. geography departments through an evaluation of demographics and measures in place to promote openness.
Diversity & Interdisciplinary Studies	2	Poster	Kim Guerra, Alissa Hakim	Building Inclusivity in Virtual Spaces: RCAH Sister Circle Mentoring Program's Transition from In-person to Online
Education	1	Oral	Erykah Benson, Ren Mueller, Nathaniel Penning, Mikayla Ward	An Incomplete History: A Visual Analysis on Cultural Themes in History Textbooks

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Category	Sec	Type	Presenter(s)	Title
Education	2	Poster	Sam Bourgeois, Ellie Friedman	The Paradoxical Relationship Between the Development of Writing Accuracy and Complexity in Grades 3-10
Education	3	Poster	Joao Gurgel	Social Network Analysis on Discussion Board Interactions
Engineering, Computer Science & Mathematics	1	Oral	Andrew McDonald	Multi-robot Learning and Coverage with Heterogeneous Sensing Information
Engineering, Computer Science & Mathematics	2	Oral	Madelyn Jeffrey, Jack Anderson, Nikit Parakh	Manipulating Abelian Sandpiles to Model Disease Spread
Engineering, Computer Science & Mathematics	3	Poster	Emma Dester	Extraction and Detection of Foodborne Pathogens with a DNA Biosensor
Engineering, Computer Science & Mathematics	4	Poster	Lindsey Hassel	Considering the Sustainability of Wastewater Treatment by Land Application as Opposed to Treatment in a Plant
Engineering, Computer Science & Mathematics	5	Poster	Katie Albus	Machine Learning Approach for Classifying Hand Gestures
Engineering, Computer Science & Mathematics	6	Poster	Sloan Kanat	Body Movements Expressed During Sitting and Standing Computer Tasks
Environmental Science & Natural Resources	1	Oral	Maria Berry	Identifying Signals of Septic Contamination in Groundwater Microbial Communities of the Grand Traverse Bay Watershed
Environmental Science & Natural Resources	2	Poster	Katie Joles, Taylor Schellmat	Organic Farming's Effect on Wildlife Abundance and Diversity

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Environmental Science & Natural Resources	3	Poster	Evan Morton	Material Grocery Bag Inquiry: Does Availability Impact Consumer Choice
Epidemiology & Public Health	1	Poster	Kase Nelson	Assessment of Consumer Flour Thermal Treatments on the Reduction of Salmonella
Epidemiology & Public Health	2	Poster	Wesley Bird	GWAS analysis on SNPs affecting gout patients
Film & Digital Media	1	Showcase	Dylan Kissel	Media Helping Families
Film & Digital Media	2	Showcase	Nala Davis, Cherished Kirkland	Twin Pandemics
Health Sciences	1	Oral	Joan Sirigiri	An Ignored Pandemic: Racial/Ethnic Mortality Rates and COVID-19
Health Sciences	2	Poster	Kendall Piper	Physical Activity and Sedentary Screen Time among Underserved Adolescents
Health Sciences	3	Poster	Marissa Cortright, Eleni Varelas	Mapping key ethical issues surrounding electroceutical treatments for depression
Health Sciences	4	Poster	Jordan Fransik	A systematic Review of the effect of Mindfulness-based Interventions on Body fat Distribution
History, Political Science & Economics	1	Oral	Lia Bergin, Karina Canning, Ruby Congleton-Giancaspro, Harika Gatla, Maya Manuel	History and Testimony in the Digital Age: Studying Holocaust Survivors. Panel 1

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History, Political Science & Economics	2	Oral	Natalie Del Vecchio	Comparing Survey Responses of Democratic and Republican Campaign Consultants
History, Political Science & Economics	3	Oral	Kristin Mertz	Preserving Human Rights: An Analysis of the Fight to End Conversion Therapy
History, Political Science & Economics	4	Poster	Kelsey Reichert, Justin Fernando, Lilli Meng	Personality Trait Estimation of Supreme Court Shortlisters
Human Society & Relationships	1	Poster	Alanna Desibour	Parent Perceptions of Intimate Relationship Experiences of Adults within Intellectual Disabilities: Comparisons with Typically Developing Siblings
Humanities	1	Oral	Berkley Sorrells	Stitched Together: Documenting the Vibrancy of Black Bottom Detroit Communities through Redwork Quilting
Integrative & Organismal Biology	1	Oral	Elie Huez	Role of the Ventral Pallidum in the Regulation of Social Play Behavior in Juvenile Rats
Integrative & Organismal Biology	2	Poster	Soumya Chennupati	Examining the Influence of Different Microbiota Compositions on Male Mouse Bone Density and Architecture using Microcomputed Tomography
Integrative & Organismal Biology	3	Poster	Minali Bhatt, Erik Ralston	Using species' traits to improve extinction risk assessments
Integrative & Organismal Biology	4	Oral	Kadie Bernstein	Geographic, Landscape, and Sex Variation in Adult Blow Fly Microbiomes: Implications for Forensics
Kinesiology	1	Poster	Lila Drake-Flam, Zoe Morley	Gestational and Post-Gestational Diets in Mice With Controlled Exercise

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Linguistics, Languages & Speech	1	Oral	Maddie Hannon	Inter-dialectal perception of Spanish assibilated rhotic variants
Linguistics, Languages & Speech	2	Poster	Shubhangi Sharma	Investigating the use of distal prosody in speech segmentation in children
Microbiology, Immunology & Infectious Disease	1	Oral	Belinda Wilson	Contribution of songbirds in the maintenance of the tick vector, <i>Ixodes scapularis</i> , and the Lyme Disease pathogen, <i>Borrelia burgdorferi</i> , during breeding months in Michigan
Microbiology, Immunology & Infectious Disease	2	Oral	Parva Mashar	Investigating the susceptibility of new cell lines to freshwater strains of VHSV
Microbiology, Immunology & Infectious Disease	3	Poster	Lijie Han	Wolbachia based incompatible insect techniques and mosquito population control
Microbiology, Immunology & Infectious Disease	4	Poster	Andrew Ladd	The Removal of SARS-CoV-2 from Wastewater by Wastewater Treatment
Microbiology, Immunology & Infectious Disease	5	Poster	Mia Van Allen	Plasmid-mediated transfer of antibiotic resistance genes (ARGs) to commensal and multi-drug resistant bacteria
Neuroscience	1	Poster	Karli Monahan	Protective Role of Mast Cells in Inflammatory Pain
Neuroscience	2	Poster	Brooklynn Murray, Hayley Kuhn	Cocaine increases calreticulin via Delta-FosB in hippocampal projection neurons
Nutrition & Food Science	1	Oral	Eliot Haddad	Fecal Bacterial Communities Differ by Lactation Status in Post-Partum Women and Their Infants

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Nutrition & Food Science	2	Poster	Maddie Young	Dietary Habits Among Underserved 5th-7th Grade Adolescents
Nutrition & Food Science	3	Poster	Adrianna Kirby	Omega-3 fatty acid Docosahexaenoic Acid (DHA) Suppresses Cathepsin B Release, Cell Death, and Proinflammatory Cytokine/Chemokine Secretion in Alveolar Macrophage-like MPI cells
Physical Sciences	1	Oral	Adam Dockery	Data fitting of Scandium 41 and 45 Fluorescence Spectra for Nuclear Structure Studies
Physical Sciences	2	Oral	Jessica Ranshaw	Determining Neutron Background from Shadow Bar Data
Physical Sciences	3	Poster	Jenni Aubin	Compton Tracing in a Gamma Ray Tracking Detector Using a Manganese-52 Source
Physical Sciences	4	Poster	Kirsten Fentzke	Rare Intermediate Compositions of Continental Rift Lavas- Probes of Magma Differentiation during Continental Rupture
Physical Sciences	5	Poster	Drew Pype	Calculating the potential energy surface of ^{196}Pb
Plant Sciences	1	Poster	Kaylie Barton	BAP2 Functional Characterization in the Plant ER Stress Pathway
Psychology	1	Oral	Isabel John	Is Normalcy or Solidarity More Effective in Reducing Mental Health Stigma
Psychology	2	Poster	Grace Bonnema, Khushi Kapoor, Tushya Mehta, Jethro Sarmientoolivares	Narrative Processing of Music: How Culture Influences Our Perception of Music

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Psychology	3	Poster	Zeeba Ali	Movement Vigor in Individuals with Schizophrenia
Psychology	4	Poster	Alexandra Pawlaczyk, Mariana El-Tawil	How Personality Traits Affect Online Learning Perceptions
Psychology	5	Poster	Sharanya Subramaniam	The Influence of Experimenter Warmth and Competence on the Efficacy of Non-Deceptive Placebos in Reducing COVID-19 Related Stress
Social Science: General	1	Oral	Giavanna Haddock	AMPHIBIAN PET TRADE STAKEHOLDERS' OPINIONS, KNOWLEDGE, AND BEHAVIORS SURROUNDING DISEASE SPREAD
Social Science: General	2	Oral	Ryan Snider	A spatial analysis of the vulnerability of historical sites across the Great Lakes to high water level.
Social Science: General	3	Oral	Emily Saxon	Comparing Sexual Misconduct Prevention Methods Across AAU Schools: A Follow-Up Study
Social Science: General	4	Poster	Erin Kramer, Carson Biederman	QUALITATIVE ANALYSIS OF YOUTH EXPERIENCES UTILIZING MENTAL HEALTH LITERACY WEB RESOURCES FOR YOUNG PEOPLE WITH A PARENT OR FAMILY MEMBER WITH MENTAL ILLNESS
Sociology	1	Oral	Aditi Kulkarni	Female Indian Food Bloggers: An In-Depth Analysis of the Internet's Cultural Stars
Toxicology & Pharmacology	1	Oral	Alex Roy	GNAO1 Mutant Mice Display Cerebellar Defects Which May Explain Movement Disorders and Epilepsy
Visual & Performing Arts	1	Showcase	Mark Zummallen	Finding Narrative Satisfaction Through Interactive Performance