

UNDERGRADUATE RESEARCH GRANT AWARDS – FALL 2024

Department	Student	Faculty Sponsor	Project Title
Anthropology, Art History, Classics, Philosophy & Religion	<b>Natalia Ramirez</b>	Suzie Kim	<i>Trans-Pacific Connections: Unveiling Cultural Exchange through Baroque Folding Screens of Japan and Mexico</i>
Anthropology, Art History, Classics, Philosophy & Religion	<b>Jamie Vuong</b>	Suzie Kim	<i>MARAAS 2024 Conference Presentation Comparing parasitism and resistance to flow in two populations of <i>Elimia virginica</i></i>
Biological Sciences	<b>Morgan Hicok</b>	Abbie Tomba	<i>Effects of Coexistence Between Green Sunfish and Redbreast Sunfish</i>
Biological Sciences	<b>Daniel Martinez</b>	Bradley Lamphere	<i>Amphibian Research</i>
Biological Sciences	<b>Marquessa Rillamas</b>	Bradley Lamphere	<i>Stream fish Populations in Hazel Run</i>
Biological Sciences	<b>Aiden Shell</b>	Bradley Lamphere	<i>Microglial activation in Alzheimer's Disease: Effect of receptor specific antagonists</i>
Biological Sciences	<b>Kristy Bagley, Mikyas Telahun, Meah Katz</b>	Deborah O'Dell	<i>The role of proinflammatory molecules in activating GSK3b in cortical neurons</i>
Biological Sciences	<b>Natalie Baca</b>	Deborah O'Dell	<i>The effects of PFUnDA exposure on the thyroid hormone axis in Medaka</i>
Biological Sciences	<b>Ashlynn Peszko</b>	Dianne Baker	<i>The effects of PFOS exposure on zebrafish dopaminergic neurodevelopment</i>
Biological Sciences	<b>Ally Fletcher</b>	Dianne Baker	<i>Irisin's effect on Myotonic Dystrophy disease progression in <i>Drosophila melanogaster</i></i>
Biological Sciences	<b>Bonnie Butler</b>	Ginny Morriss	<i>Irisin's effect on Myotonic Dystrophy disease progression in <i>Drosophila melanogaster</i></i>
Biological Sciences	<b>Delaney Humphrey</b>	Ginny Morriss	<i>Knockdown of myoglianin and its effects of skeletal muscle growth in myotonic dystrophy</i>
Biological Sciences	<b>Eleni Kepler</b>	Ginny Morriss	<i>Observing the mechanistic link between Tumor Suppressor Gene reactivation and the anti-proliferative effects in straved breast cancer cell</i>
Biological Sciences	<b>Loren Delgadillo</b>	Laura Sipe	<i>MsrB3 Confers Resistance to the Breast Cancer Chemotherapy 5-Flourouracil</i>
Biological Sciences	<b>Rachel Walker</b>	Laura Sipe	<i>Methionine restriction primes cancer cells for death</i>
Biological Sciences	<b>Briza Valdes Llamas</b>	Laura Sipe	<i>Phthalate-Induced Spatial Memory Impairment, Neurogenesis, Disruption, and Blood-Brain Barrier Alterations in Murine Models</i>
Biological Sciences	<b>Sasha Murphy</b>	Parrish Waters	<i>The role of GLP-1 in the positive effects of environmental enrichment on learning and memory</i>
Biological Sciences	<b>Christopher Anderson and Alexis Miller</b>	Parrish Waters	<i>Social Stress Choice in Male CD-1 Mice</i>
Biological Sciences	<b>Gabriela Valle</b>	Parrish Waters	<i>Social Stress Effects on Central Dopamine Systems and Hedonic Behavior</i>
Biological Sciences	<b>Caroline Turner</b>	Parrish Waters	<i>Exploring Synergistic Phage-Antibiotic Combination Therapies for the Treatment of Antimicrobial Resistance in Bacillus Pathogens</i>
Biological Sciences	<b>Michael Combs, Rebecca Cherian, Natalie Fox</b>	Swati Agrawal	<i>Exploring Synergistic Phage-Antibiotic Combination Therapies for the Treatment of Antimicrobial Resistance in Bacillus Pathogens</i>
Biological Sciences	<b>Michael Combs, Rebecca Cherian, Natalie Fox</b>	Swati Agrawal	<i>Enhanced RNAi lab for Genetics</i>
Biological Sciences	<b>Stephanie Bailey</b>	Theresa Grana	

UNDERGRADUATE RESEARCH GRANT AWARDS – FALL 2024

Biological Sciences	<b>Alegria Bautista</b>	Theresa Grana	<i>Advances in Worm DNA Sequencing</i>
Biological Sciences	<b>Lucca Muta, Emily Wills</b>	Theresa Grana	<i>Gene Function in Phage Larva</i>
	<b>Grayson Camp, Kiara Clark, Emma Goehner, Iaroslavna Kovalenko, Taylor Munger, Nelson Bonilla</b>	Nicole Crowder, Davis Oldham, Randall Reif, Sarah Smith	<i>Presentation of Chemistry Research at SERMACS</i>
Chemistry & Physics	<b>Taylor Munger</b>	Sarah Smith	<i>Development of 3D printed columns for click reactions</i>
Chemistry & Physics	<b>Emma Najdzionek</b>	Sarah Smith	<i>Quantification of Spice in Beer using High Performance Liquid Chromatography</i>
Computer Science	<b>Mackenzie Swain, Connor Hairfield</b>	Ian Finlayson	<i>Poster presentations for the CCSC Eastern Conference</i>
Earth & Environmental Services	<b>Eric Torres</b>	Ben Kisila	<i>Analysis of Sediment in Appalachian Mining Town</i>
Earth & Environmental Services	<b>Katie Burbridge</b>	Ben Kisila	<i>Spatiotemporal and bioaccumulation analysis of trace metal concentrations within sediment and dagger blade grass shrimp in Chincoteague Bay, USA</i>
Earth & Environmental Services	<b>David Nichols</b>	Ben Kisila	<i>Polycyclic Aromatic Hydrocarbons in Northern Virginia Waterways in Relation to Urbanization</i>
Earth & Environmental Services	<b>Audrey Turner, Lily Hoffman, Reagan Makfinsky, Natalie Anderson</b>	Melanie Szulczewski	<i>Pilot Environmental Justice Project: Correlating Soil Metals Concentrations and Soil Health with Socioeconomic Factors in Fredericksburg Soil Survey</i>
Earth & Environmental Services	<b>Jessica Oberlies, Ainsley Lord, Avery Duncan, Kate Green</b>	Pamela Grothe	<i>Using large skeletal architecture fossil corals to reconstruct central tropical Pacific climate</i>
Earth & Environmental Services	<b>Carter Bussey</b>	Sarah Morealli	<i>Thin Section Analysis of Breccias From Oasis Valley, Nevada</i>
Geography	<b>6 GEOG students - TBD</b>	Dan Bowen	<i>Participate in Geography Bowl – SEDAAG</i>
Historic Preservation	<b>Max Puckett</b>	Katherine Parker	<i>Stabilization and Survey of the Kemper Property Historic Resources</i>
History, American Studies & Sociology	<b>Zoe Hanrahan</b>	Nora Kim	<i>Life-style or Marriage Migrants? Western Women and Positioning Privilege in Asia</i>
Modern Languages & Literatures	<b>Wiley Prior</b>	Gonzalo Campos-Dintrans	<i>Indigenous Lexical Borrowings in the Spanish of Chile</i>
Music	<b>Daniel Paluh, Joe Haun, Nathaniel Harvey Jordyn Anderson, Mia Daniel, Hannah Shipp, Kelly Simms, Isabella Wilson</b>	Rebecca Callaway	<i>Electronic Instrument Design and Production</i>
Psychological Science		Laura Wilson	<i>Determinants of Mental Health Following Trauma</i>
Women's, Gender, and Sexuality Studies	<b>Zoey Young</b>	Kate Haffey	<i>Speaking My Body out of Intelligibility: Trans Identity and Theory in Contemporary American Poetry</i>