

HURA Grant Recipients, 2017-2018

Student	Project Title	Faculty Mentor	Faculty Department
2017-2018 Projects			
Jessica Aerts	Finding Underground Treasures: The Information Gained From Seismic Arrays	Ryan Porter	Geology
Gillian Brailsford	The Molecular Examination of the Hybridization of Northern and Gilded Flicker	Russell Benford	Biological Science
Holly Buban	A Global Map of Martian Volcanic Landforms	Lisa Skinner	Geology
Austin Dikeman	Tracking Escherichia coli Infections of the Endangered New Mexico Meadow Jumping Mouse (<i>Zapus hudsonius luteus</i>)	Faith Walker	Biological Science; French
Sydney Eck	Measuring Sarcomere Lengths during Tetanic and Twitch Stimulation	Kiisa Nishikawa	Biomedical Science
Logan Gonzales	Longer Term Effects of Jackstrawing on Aspen Regeneration and Large Ungulate Presence on the Schultz Fire, Coconino National Forest, AZ	David Huffman	Environmental Science
Sarah (S. Emily) Grams	The Influence of Soil Depth and Grazing Practices on the Quantity and Quality of Soil Carbon in Semi-arid Rangelands	Nancy Johnson	Environmental Studies; Global Sustainability emphasis
Tristan Hess	Project Shelter	Melissa Santana	Interior Design
Shelby Hutton	Developing a DNA-based Assay to Characterize Insecticide Resistance in the Oriental Rat Flea (<i>Xenopsylla cheopis</i>), an Important Plague Vector in Madagascar	Joseph Busch	Biological Science
Morgan Jones	Genetic Analysis of a Chuckwalla Population on South Mountain, Arizona	Russell Benford	Biological Science
Janus Kozdon	Identification of Variable Dust Depositions in Elysium Planitia, Mars	Christopher Edwards	Geology
Taylor Lambrigger	Identifying the Unidentifiable: Using Isotopic Analysis to Develop Biological Histories in Forensic Cases from Flagstaff, Arizona	Corina Kellner	Anthropology; Biology
Emelia Lawrence	Milkweeds for Monarchs	Richard Hofstetter	Biological Science; Chemistry minor
Jose Marmolejo	Mapping and Structural Analysis of the Las Vegas Valley Shear Zone, Nevada	Paul Umhoefer	Geology; International Affairs

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Evan Mee	Characterization of Glandular Trichome Exudate on Yellow Monkeyflower (<i>Mimulus guttatus</i>)	Liza Holeski	Biological Science
Hayden Niehus	Plato's Refutation of Empiricism: Commentary on the Grammar and Vocabulary of Theaetetus: 151e-183c	George Rudebusch	Philosophy
Amalee Nunnally	Are Soils and Waterways in Flagstaff, AZ, Important Reservoirs for <i>Clostridium difficile</i>?	Paul Keim	Microbiology
Étude O'Neel-Judy	Nanomotors Driven by Light	John Gibbs	Physics; Mathematics
Kacie Pajkos	O₂ Depletion along Thaw Gradient using Carbon Isotope Ratios in Soil DNA	Egbert Schwartz	Biological Science
Vivian Phu	Drawing Upon Cultural and Ethnic Awareness: A Visual Autobiography of a First-Generation Chinese-American	Pamela Stephens	Art Education
Angela Rincon	A Study of a North American Freshwater Sponge Living in the Rio de Flag	Stephen Shuster	Biological Science
Dan Rivera	Predicting Patient Response to Treatment of Crouch Gait with a Winding Filament Muscle Model	Zachary Lerner	Mechanical Engineering
Tanner Rosenberg	Computing Maximal Sorting Length of Signed Permutations in Terms of Reversals	Dana Ernst	Mathematics/P ysics
Seth Sheer	Differences in Drought Tolerance of <i>Pinus strobiformis</i> (Southwestern white pine) from Various Provenances	Kristen Waring	Forestry; Criminology & Criminal Justice
Siana Turner	Germination of <i>Ligusticum porteri</i> using Cold Stratification and Gibberellic Acid	David Huffman	Forestry
Daniel Valencia	"Ace in the Hole" Advanced Materials for Solar Cell Applications	Stephanie Hurst	Biochemistry
Ziyan Wu	Development and Update of Rainfall and Runoff Intensity-Duration-Frequency Curves for Arizona State Counties in Response to Climate Change	Amin Mohebbi	Environmental Engineering
Aaron Young	Measurement of Groundwater Recharge in the Upper Lake Mary Watershed using Repeat Microgravity and Chloride Mass Balance	Abe Springer	Geology