

### HURA Grant Recipients, 2016-2017

Student	Project Title	Faculty Mentor	Faculty Department
<b>2016-2017 Projects</b>			
Connor Auge	<b>Turbulence and Star Formation in Interacting Galaxies</b>	Lisa Chien	Physics and Astronomy
Kathryn (Kate) Barkley	<b>Genetic Characterization of Seagrass in the Saipan Lagoon and its Effect on Community Diversity</b>	Russell Benford	Biology
Heather Centner	<b>Investigating Plague in Madagascar's Capital after 17 years of No Reported Cases</b>	David Wagner	Biomedical Science
Kevin Gochenour	<b>From Primordial Lagoon to Self-replacating DNA: Analyzing a Proposed Precursor of Modern Nucleobases</b>	Gerrick Lindberg	Geology
Emily Haworth	<b>Milkweeds for Monarchs Arizona</b>	Rich Hofstetter	Environ & Sustainability Studies
Peter Herron	<b>A Comparison of Fremont Cottonwood (<i>Populus fremontii</i>) Fungal Endophytes in High and Low Stress Areas near Joshua Tree National Park</b>	Catherine Gehring	Environmental Sciences
Adam Hoffmann	<b>Justifying Talc as a Suitable Marker to Search for Biologic Activity</b>	David Elliott	Geology
Micah Ingwersen	<b>Modeling Pre-treatment Hydrologic Responses in Middle Sycamore Watersheds</b>	Abe Springer	Environmental Geology
Ashley Jones	<b>Detecting Nrf2 Signaling using Transmission Electron Microscopy</b>	Tinna Traustadottir	Microbiology
Amanda Ketting-Olivier	<b>Tracing the Disruption of the Little Colorado River by Past Eruptions of the San Francisco Volcanic Field</b>	Nancy Riggs	Geology
Lindsay Klooster	<b>Gender Differences in Resistance to Oxidative Stress</b>	Tinna Traustadottir	Biomedical Science
Ryan Lancione	<b>Understanding Interactions between Switchgrass and N-fixing Bacteria for Sustainable Biofuel Production</b>	Nancy Johnson	Microbiology
Christopher (Chris) McDonell	<b>Transtensional Faulting, Lake Mead, NV: Mapping of Fault Splays Associated with the Transition from Normal To Strike-Slip Faulting</b>	Ryan Porter	Geology
Heather Mead	<b>Investigating Differential Expression Utilized during the Fungal Morphogenesis of the Attenuated Strain of <i>Coccidioides posadasii</i></b>	Bridget Barker	Microbiology
Ramon Mendoza	<b>Removal of Salt From Sea Water using Carbon Dioxide</b>	Michael Lee	Chemistry

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Hayden Niehus	<b>Philebus 28a-30d and 55d-67d: Commentary on the Grammar and Vocabulary of Plato on God and the Good</b>	George Rudebusch	Philosophy
Trevor Pacion	<b>Uplift, Volcanism, and Mantle Flow of the Colorado Plateau</b>	Ryan Porter	Geology
Mariel Pomeroy	<b>Comparison of Genetic Diversity in Gunnison's Prairie Dogs Before and After the Introduction of Plague to North America</b>	Joseph Busch	Biology
Miles Scull	<b>Biosemiotics: The Account of Meaningful Communication in the Natural World</b>	Jeffrey Downard	Philosophy
Isaiah Self	<b>Innovative Cost-effective Strategy for Monitoring Zoonotic Diseases to Understand Their Prevalence in Nature</b>	Dawn Birdsell	Biomedical Science
Kiley Sheehan	<b>Chemical Signatures and Implications for the Provenance of the Green River Basin, Wyoming</b>	Michael Smith	Geology
Clotilde (Cloe) Sliva	<b>Comparison of Silicate Minerals from Unusual and Compositionally Extreme Igneous Rocks</b>	James Wittke	Geology
Kai Smith-Crain	<b>Ash Bed Analysis of Eocene Cordilleran Hinterland deposits</b>	Michael Smith	Geology
Alexandra (Alex) Tyra	<b>Let's Keep It Casual: Comparing Friends with Benefits Relationships to Platonic Friendships</b>	Meliksah Demir	Psychological Sciences
Daniel Van Gundy	<b>Post-Eruptive Explosive Hazards of Scoria Cone Volcanoes</b>	Nancy Riggs	Geology
Brandon VanBibber	<b>Perceptions of Teacher Autonomy in Charter Schools: A qualitative study</b>	Ishmael Munene	Biological Sciences/Secondary Ed
Patrick White	<b>The Future of Natural Regenerating Southwestern White Pines</b>	Kristen Waring	Forestry
Christopher (Chris) Whitney	<b>Predicting Muscle Force Output of Guinea Fowl During Gaits with Perturbations</b>	Kiisa Nishikawa	Computer Science
Christi Williams	<b>The Physiological Effects of Hydrocarbon and Noise on the Central Auditory Nervous System</b>	O'Neil Guthrie & William Culbertson	Speech Language and Technology
Brianna Zgurich	<b>Philebus 31a-55b: Commentary on the Grammar and Vocabulary of Plato on the Forms of Pleasure</b>	George Rudebusch	Philosophy