

Current and Past Undergraduate Research Grant Awardees - College of the Sciences

2018-2019 Undergraduate Research Grant Recipients – **This year's awardees**

Student	Faculty Mentor	Project Title	Department
Shelby Hamblen	Hope Amason	In the Face of Change: Impacts of Landscape Change in Well-Established Groups in Roslyn, Washington	Anthropology
Robert Ring	Anne Johansen	Method Development for Determining Sources of Nitrate in Environmental Samples Using Isotope Ratio Mass Spectrometry	Chemistry

2017-2018 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
Kels Caskey	Anthony Diaz	Effects of a Ca ²⁺ and Sr ²⁺ on the Optical Properties of YBO ₃ Doped with Eu ³⁺	Chemistry
Aiden Chissus	Mary Poulson	The Effect of Environmental Stress on Genetically Unique Strains of Sunflower (<i>Helianthus annuus</i>) as determined through measurement of photosynthesis	Biology
Eamonn Clarke	Tim Sorey	Development of a low-cost instrument for tap water lead analysis	Chemistry
Amanda Ladner	April Binder	Investigations of Hormone-Linked Metabolic Changes in a Mouse Model of PCOS	Biology
Laura Steiner	Anthony Diaz	Effects of a Ca ²⁺ and Sr ²⁺ on the Optical Properties of YBO ₃ Doped with Eu ³⁺	Chemistry
Michaella Swinhart	Anthony Diaz	Effects of a Ca ²⁺ and Sr ²⁺ on the Optical Properties of YBO ₃ Doped with Eu ³⁺	Chemistry
Nick Werner	April Binder	Investigations of Hormone-Linked Metabolic Changes in a Mouse Model of PCOS	Biology

2016-2017 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
Susana Camacho	Todd Kroll	Using Yeast Two-Hybrid to Test the Interactions of Emx2 with QKI-5, QKI-6, and QKI-7	Chemistry
David Farr	Alison Scoville	Development of Software for Genome Sequence Analysis	Biological Sciences
Jake Funkhouser	Jessica Mayhew	UA Captive Chimpanzee Society: Social Structure and Dominance Hierarchy Analyses at Chimpanzee Sanctuary Northwest	Anthropology
Micah Kipple	Carey Gazis	Surface Hydrothermal Activity at Mickey Hot Springs Oregon	Geological Sciences
Nick Poprawski	Megan Walsh	Reconstructing Wildfire History at Twin Lake, Oregon, Using Macroscopic Charcoal Analysis	Geography

2016 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
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Steven Isaak	Jesse James	An evaluation of the circumplex religious orientation inventory (CRIO)	Psychology
Edward Magner	Levente Fabry	Towards the synthesis of 1-(2-benzyl-3-azaborine-1-yl)ethanone, a potential HIV-1 protease inhibitor	Chemistry
Antonio Moreno	JoAnn Peters	Development of procedures to detect the presence of cellulose and cellulose acetate	Chemistry
Katherine Norris	Levente Fabry	Towards the synthesis of 1-methyl-3-diisopropylamine-1,3-azaborine, a novel 1,3-azaborine, as a potential HIV-1 protease inhibitor	Chemistry

2015 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
Brianda Cardenas	Blaise Dondji	Evaluation of the anthelmintic activity of plant extracts on the hookworm <i>Ancylosotma ceylanicum</i>	Biological Sciences
Grant Clifton	Megan Walsh	Fire history of Lemnasky Lake, Eastern Cascades, Washington	Geography
Alex Handley	P. Whitney Swain	Production and testing of possible antimicrobial agents from breakdown products of lasalocid A	Chemistry
Collin Meharg	Anne Johansen	Method development for analysis of organic acids in wine and juice	Chemistry
Hailey Reese	Alison Scoville	Vertical migration of <i>Daphnia melanica</i> in response to <i>Ambystoma gracile</i> karomones	Biological Sciences
Parker Wilson	P. Whitney Swain	Production and testing of possible antimicrobial agents from breakdown products of lasalocid A	Chemistry

2014 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
Grant Clifton	Lori Sheeran	Rank and sex bias of infant-directed aggression among Tibetan macaques (<i>Macaca thibetana</i>)	Primate Behavior and Ecology
Kaitlin Koppinger	Blaise Dondji	Assessment of anthelmintic activity of plant extract fractions on the hookworm <i>Ancylostoma ceylanicum</i>	Biological Sciences
Jen McClure	Timothy Sorey	Remote environmental monitoring system for sustainable water management of hay production in Washington state	Chemistry
Jocelyn McCornack	Blaise Dondji	Assessment of anthelmintic activity of plant extract fractions on the hookworm <i>Ancylostoma ceylanicum</i>	Biological Sciences
Joshua Wilson	Wendy Bohrson	Analyzing compositional trends in plagioclase crystals erupted from Mt. Etna: Is increased explosivity dominated by crustal addition or mantle recharge?	Geological Sciences
Eric Winterstein	Gil Belofsky	Chromatographic isolation and spectroscopic determination of secondary metabolites of <i>Dalea ornata</i> (<i>Fabaceae</i>)	Chemistry

2013 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
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James Brown	Steve Hackenberger	Radiocarbon dating of bioapatite from calcine bone: the Bray Archaeological Site, Pierce County WA	Anthropology
Taggart Butterfield	Dan Beck	Thermal biology and habitat use of juvenile northern pacific rattlesnakes	Biological Sciences
Kaitlin Koppinger	Blaise Dondji	Assessment of anthelmintic activity of the hookworm <i>Ancylostoma ceylanicum</i>	Biological Sciences
Yan Yee Lillian Luk	Megan Walsh	Fire history of ponderosa pine forest in the eastern Cascades, Washington	Geography
Anne Parfitt	Pat McCutcheon	Chemical sourcing of obsidian lithic fragments from the Grissom Site (45KT301) to study intra-site and inter-site source variability	Anthropology
Jillian Shafer	Cody Stoddard	Ecology of crime in Seattle: drug market intervention assessment	Law and Justice

2012 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
Jacob Buchanan	Stephen Chamberland	Complete synthesis of phidianidine A and B	Chemistry
Alan McNolty	Mary Poulson	Selection of cold-tolerant <i>Arthrospira platensis</i> strains by way of cold-shock treatments	Biological Sciences
Stephanie Moesch	Blaise Dondji	The impact of interleukin-5 neutralization in hookworm infection	Biological Sciences
Michael Mullen	Todd Kroll	Confirming neocortical proteins that interact with the transcription factor Sp8	Chemistry
James Siegenthaler	Stephen Chamberland	Total synthesis of a urea analogue of clavatadine A	Chemistry

2011 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
Andrea Faulkner	Levente Fabry	Synthesis of boronated amino acid analogs: precursors for potential HIV-1 protease inhibitors	Chemistry
Sara Healas	Jason Irwin	Altitudinal variation of freeze tolerance in the pacific chorus frog, <i>Pseudacris regilla</i>	Biological Sciences
Julia Jennings	Levente Fabry	Synthesis of a precursor to 1,3 azaborine as a potential HIV-1 protease inhibitor	Chemistry
Angela McFadden	Linda Raubeson	Comparison of genomic mapping methods	Biological Sciences
Ryanne Mueller	James Johnson	Evaluating alternative genes for DNA barcoding in <i>Saprolegnia</i>	Biological Sciences
John Schreiber	Levente Fabry	Total synthesis of novel boronated amino acid analogues as potential inhibitors of HIV-1 protease	Chemistry

2010 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
Amanda Berndt	Blaise Dondji	Nitric Oxide as Mediator of Hookworm Infection	Biological Sciences
Matthew McCammant	Levente Fabry	Synthesis of 3-mercapto-2,4-diphenylbutanamide as a potential inhibitor of Anthrax Lethal Factor	Chemistry
Stephanie Moesch	Blaise Dondji	The Role of Interleukin-5 in Hookworm Infection	Biological Sciences

2009 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
Steven Chrisman	Lucinda Carnell	Genetic analysis of electrotaxis behavior in <i>C. elegans</i>	Biological Sciences
Jeff Dermond	Jeffrey Lee	Vorticity analysis in the Snake Range: Examining mid-crustal ductile deformation patterns in eastern Nevada	Geological Sciences
Annika Nieber	James Johnson	Yeast as a model organism for determining the toxic effects of atmospheric particulate matter of various sizes	Biological Sciences
Lee Ream	Levente Fabry	Synthesis of three novel cyclic 1,3-azaborine HIV-1 protease inhibitors	Chemistry

2008 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
Christopher B. Abdul-Wahid	James Schwing	Construction of a distributed computer cluster	Computer Science

2007 Undergraduate Research Grant Recipients

Student	Faculty Mentor	Project Title	Department
Christopher Badi' Abdul-Wahid	Levente Fabry	In silico study of plasmodium falciparum proteases plasmepsin II and IV: prediction of biological activity of newly designed inhibitors	Chemistry
Susan Belmont	Steven Wagner	Amphibian diversity and abundance in a lowland tropical forest region in northern Costa Rica	Biological Sciences
Brittany J. Best	Anne Johansen	Method development with high pressure liquid chromatography for the detection and qualification of submicromolar concentrations of methanesulfinic acid	Chemistry
Christopher Gaulke	Jason Irwin	Mechanisms of mortality of <i>Batrachochytrium dendrobatidis</i> in amphibians	Biological Sciences