

## College of Science and Mathematics Fall 2022 Student Research Awards



Each year, the College of Science and Mathematics provides support for undergraduate and graduate student research through the COSM Student Research Award program. The program provides up to \$2,000 of research support for student stipends, purchase supplies and equipment, and assist with travels experiences

Depart.	Student	Faculty Mentor	Budget	Project Title
Math	Avery Campbell, Melanie Little, Gavin McIntosh	Bryant Wyatt	\$4,000	Modeling Supraventricular Tachycardia Using Dynamic Computer-Generated Left Atrium
Math	Dashon Mitchell	Christopher Mitchell	\$2,000	A Mathematical model of Various Treatments for Onchocerciasis and Loa-Loa
Math	Derek Hopkins	Christopher Mitchell	\$2,000	Applying Bayesian Statistical Methods to Onchocerciasis and other Classical Disease Models
Math	Vianey Rangel	Scott Cook	\$2,000	Modeling Election Voting Outcomes using Bayesian Statistics
Biol	Aimee Byington	Victoria Chraibi	\$641	Desiccation Tolerance of Freshwater Epizoic Diatoms: the influence of aerial exposure length
Biol	Alanna Joplin	Russell Pfau	\$1,805	Genetics Assessment of Subspecies within the Crawfish Frog ( <i>Lithobates areolatus</i> ) using Nuclear Genetic Markers
Biol	Ashley Reytor Plasencia	Russell Pfau	\$1,805	Genetics Assessment of Subspecies within the Crawfish Frog ( <i>Lithobates areolatus</i> ) using mitochondrial DNA sequencing
Biol	Love Leigh Sansom	Harold Rathburn	\$1,914	Examining prospective Cas4 protein activity of Gene 67 from the bacteriophage Ario
Biol	Skylar Terrell	Harold Rathburn	\$1,753	Isolation and Analysis of <i>Sesbania vesicaria</i> trypsin inhibitor protein
Biol	Aeron Pennington	Dustin Edwards	\$2,000	Identifying Genes Involved in Superinfection Immunity and Protein-Protein Interactions of Cluster K Mycobacteriophage Pixie
CHGP	Alyssa Kohler	Rajani Srinivasan	\$2,000	Efficacy of a Plant-Derived Polymeric Drug Delivery System Used to Deliver Antibiotics to Produce Cytotoxic Effects of Bacteria