

**ARTS AND SCIENCES
AUTUMN SEMESTER 2018
UNDERGRADUATE RESEARCH SCHOLARSHIP COMPETITION**

RECIPIENTS OF \$6000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Natalie Dalea, English Literature, *Syncretisms: The New Mestiza*, Professor Dr. Karen Winstead

Stephen Gant, Physics, *2D Material Modeling with Density Functional Theory: Applications in Scanning Tunneling Microscopy*, Professor Dr. Jay Gupta

Rachel Williams, Economics, World Politics, *Renewable Energy Credit Spillovers: Choosing Winners and Losers*, Professor Dr. Dan Levin

Dennis Yang, Chemistry, *Studies Towards the Resurrection of Aged Acetylcholine esterase with Quinone Methide Precursors.*, Professor Dr. Christopher Callam

RECIPIENTS OF \$5000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Alexander Crum, Neuroscience, *The Role of MG53 In Neuromuscular Junction Transmission and Motor Unit Connectivity in Aged Mice*, Professor Dr. W. David Arnold, MD

Maeve Scully, Geography, *Visual Methods Of Geographic Analysis Of Gentrification In Columbus, Ohio*, Professor Dr. Darla Munroe

Kerry Stevens, Chinese, International Studies, *Recognizing the Chinese Marriage Trade as a Gray Market (With a Focus on North Korean Women)*, Professor Dr. Hollie Nyseth Brehm

RECIPIENTS OF \$4000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Amanda Dominique, International Studies, Religious Studies, *A Peyote Legal Exemption: Examining Identities and Race between the Native American Church and US Law*, Professor Dr. Hugh Urban

Julia dziabis, Neuroscience, *Reversal of TBI-Induced Microglial Priming by CSF1R Antagonist-Mediated Depopulation and Repopulation*, Professor Dr. Jonathan Godbout

Syeda Kenza Kamal, Political Science, *Enclosed for Business: Primitive Accumulation in Modern-Day Pakistan*, Professor Dr. Madhumita Dutta

Elif Kolanci, Neuroscience, *Exploring the roles of sex and intestinal microbial composition in stress-enhanced anxiety-like behavior*, Professor Dr. Michael Bailey

Madison Smith, Chemistry, *Thermodynamic Optimization of G-Triplex RNA Motifs in Kinetic Destabilization of HIV*, Professor Dr. Karin Musier-Forsyth

RECIPIENTS OF \$3000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Danielle LoPrinzi, Speech and Hearing Science, *Driver Reengagement with Autonomous Vehicles for Individuals with Autism*, Professor Dr. Janet Weisenberger

Alexandra Russell, Microbiology, *Characterizing the role and interactions of Seel in vesicle fusion at the division site during late stages of fission yeast cytokinesis*, Professor Dr. Jian-Qui Wu

Katarina Schneiderman, Neuroscience, *Optimal Activity for Recovery after Traumatic Brain Injury*, Professor Dr. Zachary Weil

RECIPIENTS OF \$2500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Jillian Harrington, Biology, *Maternal linguistic input and executive functioning in prelingually deafened cochlear implant users*, Professor Dr. Irina Castellanos

Holly Heffer, Sociology, Psychology, *The Implications of Socioeconomic Status and Gender for Reports of Subjective Health among Teenagers*, Professor Dr. Christopher Knoester

Lea Lai, Psychology, Philosophy, *Working Memory in Relation to Facilitation and Inhibition on Selective Attention*, Professor Dr. Mark Pitt

Jameson Maddox, History, *Paul and Suicide: A Study of Philippians 1:21*, Professor Dr. Bert Harrill

Rachael Mahr, Speech and Hearing Science, *Warning Signals and Driver Reengagement for Individuals with Autism Spectrum Disorder*, Professor Dr. Janet Weisenberger

Chris Newman, African-American Studies, *A Cloak for a Sword: The Revolutionary Jesus and the Second Death of Christ*, Professor Dr. Ousman Kobo

Shivani Patel, Mathematics, *Development of Computational Model to Visualize Gene Activity*, Professor Helen Chamberlin

Ethan Shenhar, History, German, *From the Reich to the Republic: The Communist Party of Germany and the Spanish Civil War*, Professor Dr. Robin Judd

Allison Walker, Biochemistry, French, *Elucidating the Role of Long Non-Coding RNA, DANCR, in Leukemic Stem Cells (LSCs) in Acute Myeloid Leukemia*, Professor Dr. Adrienne Dorrance

RECIPIENTS OF \$2000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Nikolas Grotewold, Biochemistry, *Identifying Genes Critical to Biofilm Formation of Pathogenic Bacteria*, Professor Dr. Daniel Wokniak

Myung-Ji Heo, Economics, Sociology, *A Cross-National Analysis of Globalization and Its Contradictory Effects on Women's Status*, Professor Dr. Natasha Quadlin

Jack Kucinski, Molecular Genetics, *Examining the role and mechanism of histone variant H2A.Z (HTZ-1) in the regulation of gene transcription in C. elegans.*, Professor Dr. Helen Chamberlin

Ishan Rola, Neuroscience, *Use of APEX to identify proteins contributing to ASIC-mediated acidotoxicity*, Professor Dr. Candice Askwith

RECIPIENTS OF \$1500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Marissa Farinas, Neuroscience, *The role of novel small molecule ST A T3 inhibitor in restoring Treg-mediated suppression of Teff cells from MS patients*, Professor Dr. Yuhong Yang

Brian Fries, Chemistry, *Elucidating the Biophysical Properties of a Disease Causing Lipoic Acid Synthase (LIAS) Mutant*, Professor Dr. James Cowan

Ariana Munoz-Salgado, Psychology, *Promoting high-status individuals' endorsement of diversity initiatives*, Professor Dr. Jennifer Crocker

Alexander Steed, Biochemistry, *Understanding the Mechanism and Roles of Dre2 in Iron-Sulfur Cluster Trafficking*, Professor Dr. James Cowen

Amanda Weller, Biology, *Assessing relationships among the brush-tailed Mice (family Calomyscidae) with genetic and biogeographical Data*, Professor Dr. Ryan Norris

RECIPIENTS OF \$1000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Shivani Ambardekar, Biochemistry, *Competition between plastin 2 and human isoforms of tropomyosin in regulation of the actin cytoskeleton*, Professor Dr. Dmitri Kudryashov

George Bauer, Biology, *Do forest refugia and riverine barriers promote genetic diversity among species in the Hybomys division?*, Professor Dr. Ryan Norris

Chaosong Chen, Physics, *Determining the relative fraction of quark and gluon interactions in W production using data from the ATLAS experiment at the LHC with the Monte*

Carlo Method, Professor Dr. Harris Kagan

Claire Goecke, Speech and Hearing Science, *Parent Language Input Received by Children with Autism Who Use Augmentative & Alternative Communication*, Professor Dr. Allison Ellawadi

Andrea Gutmann Fuentes, Linguistics, Comparative Cultural Studies, *The Politics of Mapudungun*, Professor Dr. Katherine Borland

Alicia Mendoza, Molecular Genetics, *Exploring Conformational Structure of MurJ, the Lipid II Flippase in E.coli*, Professor Dr. Natividad Ruiz

Ruojing Peng, Chemistry, *Development of Tailored Density Cumulant Theory for Accurate Simulations of Strongly Correlated Chemical Systems*, Professor Dr. Alexander Sokolov

Ethan Schwendeman, Biology, *The Effect of Tyrosine Kinase Inhibitors on the Cardiovascular System-Project Proposal*, Professor Dr. Sakima Smith

Sidney Smith, Biology, *Evaluating mi RNA and Protein Expression Profiles as Markers for Increased Medical Attention in Sickle Cell Patients*, Professor Dr. Rosa Lapalombella

Julia Zezinka, Health Sciences, *Outcomes Measurement in Augmentative and Alternative Communication Interventions*, Professor Dr. Allison Ellawadi

RECIPIENTS OF \$500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Megan Fava, Math, *Distinguishing Trees by their Symmetric Chromatic Polynomials*, Professor Dr. Sergei Chmutov

Ishaan Shah, Math, Physics, *Relationship between Combinatorial properties of Graphs and Chromatic Bases*, Professor Dr. Sergei Chmutov

Brendan Whitaker, Math, *Towards word embedding explanation*, Professor Dr. Eric Fosler-Lussier