ARTS AND SCIENCES AUTUMN SEMESTER 2018 UNDERGRADUATE RESEARCH SCHOLARSHIP COMPETITION

RECIPIENTS OF \$10000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Anisha Babu, Neuroscience, The Influence of Statistical Regularities on Spatial Congruency Bias, Professor Julie Golomb

Sheen Brower, Molecular Genetics, *Building a Programmable In-Vivo Data Recorder*, Professor Helen Chamberlin

Tianli Ding, Psychology, Behavioral changes associated with loss of NSPC derived VEGF in vivo after kainic acid

induced excitotoxic injury, Professor Elizabeth Kirby

Kathryn Duncan, Neuroscience, WWOX Function in DNA Repair, Professor Jeffrey Parvin

Jeffrey Lotthammer, Biochemistry, *Investigating the Structure and Function of the Inner-Ear Hair Cell Mechanotransduction*

complex via Molecular Dynamics and Small Angle X-Ray Scattering, Professor Marcos Sotomayor

RECIPIENTS OF \$7000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Nathan Baker, Psychology, *Informal Learning in a Museum Setting: A Case Study with Language Science*, Professor Nikole Patson

Eleanor Bashian, Biochemistry, *Establishing the sensitivity of glycated albumin measurements in diabetic patients with chronic kidney disease*, Professor Venkat Gopalan

Hannah Nelson, English, Anthropology, *An Examination of the Post-Industrial Gothic*, Professor Jared Gardner

Jeniveve Pearson, Physics, Astronomy & Astrophysics, *How are the periods of RS CVn binary stars, such as RT And, changing over time?*, Professor Donald Terndrup

RECIPIENTS OF \$6000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Montgomery Gray, Chemistry, Chemical Intermediates from Feedstock: Reaction Discovery and Proces Optimization, Professor T.V. (Babu) RajanBabu

Mason Harris, Earth Sciences, An Investigation of Decreasing Porosity in the Trenton Linestone from Williams County, Ohio, Professor Ann Cook

Adam Helton, Molecular Genetics, Using Reporter Constructs to Determine Patterns of Expression and Subcellular Localization of the Pollen Aperture Protein DOUGHNUT in Arabidopsis thaliana, Professor Anna Dobritsa

Colin Kurkul, Microbiology, *Identifying Food-safe Antimicrobial Compounds to Control European Foulbrood (Melissococcus*

plutonius) in Honey Bees, Professor Reed Johnson

Elton Nguyen, Evolution & Ecology, *Development of an in vitro culture technique of Tridacna derasa clams*, Professor Andrea Grottoli

Lauren Peltier, Molecular Genetics

Anita Hopper, Stress-induced tRNA intron accumulation as a potential mechanism of gene regulation, Professor Anita Hopper

Elliot Ping, Neuroscience, How Are Grouped Objects Represented in Visual Working Memory?, Professor Andrew Leber

Henry Wu, Political Science, Philosophy, *Divided Courts: Judicial Behavior in Human Trafficking Cases*, Professor Lawrence Baum

RECIPIENTS OF \$5500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Lindsey Battaglia, Psychology, Human Development & Family Science, *The Role of Resilience in Wellbeing*, Professor Jennifer Cheavens

Trent Cash, Psychology and Public Affairs, Evaluating the Social and Emotional Well-Being of Gifted Students Receiving Different Levels of Gifted Services, Professor Tsu-Jung Lin

RECIPIENTS OF \$5000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Jacob Brooks, Biochemistry, Calcium Sulfate Antibiotic Loaded Beads Arrangement for Methicillin Resistant Staphylococcus aureus and Pseudomonas aeruginosa Biofilm Eradication, Professor Paul Stoodley

RECIPIENTS OF \$4000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Nathan Kudlapur, Biochemistry, Characterization of Glutamyl-tRNA Synthetase Point Mutations in Human Disease, Professor Karin Musier-Forsyth

Vasudha Raju, Psychology, Linguistics, *Differences in Lexical Perception of Word-Initial and Word-Final Geminates in Tamil*, Professor Mark Pitt

Olivia Randall, International Relations, Middle East Studies, *Reconciliation Between Women After Genocide*, Professor Hollie Nyseth Brehm

Annalee Sekulic, Anthropology, Public Policy Analysis, *Anthropogenic Flora Indicators Explain Human/Climate Interactions within Southeastern Arabia*, Professor Joy McCorriston

RECIPIENTS OF \$3000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Rachel Crites, Evolution and Ecology, Using traditional and geometric morphometrics to study the intraspecific variation of a generalist rodent species, Praomvs rostratus, in Cote d'Ivoire, Sierra Leone, and Guinea, West Africa, Professor Ryan Norris

Elizabeth Fuller, Physics, Magnetic Characterization of 2D Materials with Spin-Polarized Scanning Tunneling Microscopy, Professor Jay Gupta

Elaine Louden, Public Health, Spanish, *Perceived risk of pregnancy among adolescent women in Spanish Town, Jamaica*, Professor Maria Gallo

Abigail McGowan, Internationa Studies, Political Science, *The Troubles: US Diplomatic Relations with the United Kingdom and the Republic of Ireland*,

1968-1986, Professor Raymond Joe Parrott

Wanting Niu, Physics, Astronomy & Astrophysics, *Developing the Simulation for Ultra Energy Neutrino Experiment*, Professor Amy Connolly

Rahi Patel, Molecular Genetics, *Cell Development and Differentiation in a Deregulated System,* Professor Wayne Miles

Abu Rogers, Biochemistry, Characterizing the biochemical properties and post-translational modifications of Plasmodium falciparum hexokinase, Professor Mark Drew

RECIPIENTS OF \$2500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Brain Daniels, Chemistry

Chemistry, o,E -Bifunctionalization of Alkyl Amines via 1,5-Hydrogen Atom Transfer, Professor David Nagib

Lauren Garner, Psychology, Visual influences on the perceptual organization of speech, Professor Mark Pitt

Julian Havens, Neuroscience, A Viral Vector Mediated Gene Editing Approach to Correction of DMD, Professor Kevin Flanigan

Jack Kucinski, Molecular Genetics

Examing the role of histone H2A.z (HTZ-1) and its role in transcriptional repression, , Professor Helen Chamberlin

Cella Masso-Rivetti, Anthropological Sciences

Hollie Nyseth Brehm, Confession and Forgiveness in Post -Genocide Rwanda, Professor Hollie Nyseth Brehm

Aditya Mistry, Biochemistry, Neuroscience, *Using Crystallography to Explore Alternative Topologies in the Four-helix Bundle Protein, Rop,* Professor Thomas Magliery

Kaitlyn Toth, International Studies, Political Science, , Professor Hollie Nyseth Brehm

RECIPIENTS OF \$2000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Rachel Braun, Biochemistry, Use of click chemistry to improve a fluorescence-based turn-on assay for RNase P. an ancient

endoribonuclease and potential drug target, Professor Venkat Gopalan

Clara Harrod, Pschology, Criminal Justice, *Intimate Partner Violnce and Nonzero-sum Beliefs*, Professor Jennifer Crocker

Hope Klingensmith, Biology, GREB1 Activation of Akt Signaling in Cancer, Professor Craig Burd

Alyssa McNerney, Psychology, Ostracism, Optimism/Pessimism, and Risk-Taking in Social Situations, Professor Melissa Buelow

Aretha On, Neuroscience, Exploring the Effects of NRIP1 Expression on Proliferation, Apoptosis, and Wnt Pathway Activation in Chronic Lymphocytic Leukemia, Professor Lynne Abruzzo

Alexandra Zborovsky, English & History, From Tragedy to Comedy: American Jewish Comedy After the Holocaust 1950-1970, Professor Robin Judd

RECIPIENTS OF \$1000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Chaosong Chen, Physics, Reducing systematic uncertainty on the top-quark cross section measurement by the ATLAS detector by improving the luminosity measurement, Professor Harris Kagan

Jacob Ferrell, History, International Studies, *Historicizing Change in Late 20111 Century Belizean Political Economy*, Professor Joel Wainwright

Maiah Fogel, Spanish

John Grinstead, Pragmatic Reasoning and Sentence Interpretation: A Latent Variable Analysis of Inhibition, Professor John Grinstead

Kennedy Hoying, Psychology, Compassionate Goals and Health-Promotion Behaviors, Professor Jennifer Crocker

Katherine Zhang, Biochemistry, Molecular Genetics, Psychology, From Tragedy to Comedy: American Jewish Comedy After the Holocaust 1950-1970, Professor Jian-Qiu Wu

RECIPIENTS OF \$750 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Paige Butauski, Psychology, Thought Confidence and Relationship Quality in Romantic Conflict Interactions, Professor Jennifer Crocker

Matthew Galla, Neuroscience, Spanish, Phonetic Factors in Children's Quantifier Interpretation, Professor John Grinstead

Christina Maroun, Neuroscience, Sociology, The mental impacts of police brutality on Black women, Professor Laura Frizzell

Carver Nabb, Psychology, Predicting individual reading ability based on structural neural connectivity, Professor Zeynep Saygin

Alayna Press, Environment, Economics, Development and Sustainability, Summer 2019 Research Proposal - Perceptions of Community Capitals in Cambodia, Professor Erin Lin

Feng Qian, Physics, Math, Speed-up to Quantum Fourier Transform, Professor Daniel Gauthier

RECIPIENTS OF \$250 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Rezvan Baghbanian, Neuroscience, Multiple Measures of Numerical Cognition and Quantifier Interpretation, Professor John Grinstead

Cerys Hughes, Computer Information Sciences, Linguistics, Use of Gazetteers in Grammar Induction, Professor William Schuler

Quintin O'Boyle, Biochemistry, *Photodynamic Potential and Production of Apohemoglobin bound Phthalocyanines for Targeting of CD163+ Tumor Associated Macrophages in Triple-Negative Breast Cancer*, Professor Andre Palmer

Laura Patterson, Dance, Improvisational Movement Practice as a Model for Community Work and Collaborative, Professor Hannah Kosstrin

Michaela Schlegel, Anthropology, Examining the Association between Heart Rate Variability and Self-Reported Substance Use, Professor DeWayne Williams

Serina Smith, Biochemistry, Music, Structural Stability of a Protein Fragment Essential for Hearing, Professor Marcos Sotomayor

Selina Vickery, Neuroscience, *The Effects of Exercise on Chemotherapy-Induced Anxiety-Like Behavior*, Professor Leah Pyter

Paige Wilcox, Psychology, Criminology, Women participation in Genocide, Professor Hollie Nyseth Brehm