

**ARTS AND SCIENCES
AUTUMN SEMESTER 2017
UNDERGRADUATE RESEARCH SCHOLARSHIP COMPETITION**

RECIPIENTS OF \$6,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Carley Reinhard, History, *The African Slave Trade, American Slaves, and the Migration of Black Mythology*, Professor Stephanie Shaw

Jonathan Schulman, Political Science and International Studies, *Analyzing the Long-Term Implications of the Vietnam War on Sino-Soviet Relations*, Professor Nicholas Breyfogle

RECIPIENTS OF \$5,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Adam Bercz, Microbiology, *The Rule of miR_155 in Alveolar Type Cellular Gene Expression in Response to Influenza Infection*, Professor Ian Davis

Oyindamola Bola, Sociology, *Preaching Vs. Speaking: An Analysis of the Sermons and Positionality of Afro-Sanctified Women Preachers*, Professor Korie Edwards

Robert McKay, Physics, *The Theory of Thermoelectric Transport in Topological Type II Weyl Semimetals*, Professor Nandini Trivedi

Darsheed Mustafa, Chemistry, *Radical-Mediated, One-Pot Synthesis of Oxazoles from Alcohols and Nitriles*, Professor David Nagib

Sarah Souders, Political Science, *The Impact of School Labels on District and Charter School Enrollments*, Professor Stéphane Lavertu

Derek Whiddon, Political Science, *Popular Votes on Death Penalty Policy: An Analysis of Nebraska and Washington*, Professor John Wright

RECIPIENTS OF \$3,500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Richa Agrawal, Biochemistry, *Role of Phosphorylation in Regulation of Cancer Biomarker Plastin-2 Function*, Professor Dmitri Kudryashov

Leah Anderson, Molecular Genetics, *Determining Binding Specificities of Cell Adhesion Molecules from Drosophila and Other Related Dipterans*, Professor Mark Seeger

Emily Ankeney, Speech and Hearing Science, *Examining the Effects of Parent-Parent Social Capital on Children's Narrative Language*, Professor Monique T. Mills

Connor Basinger, Astronomy and Astrophysics, *Ages for Low Mass Field Stars*, Professor Donald Terndrup

Nikolas Grotewold, Biochemistry, *Manipulating Genetic Material to Identify Genes Important for Bacterial Biofilm Formation*, Professor Chris Jones

Andrew Hosler, Classics, *Lucian and the Attic Dialect: Language as Ethnic Classification during the Second Sophistic*, Professor Tom Hawkins

Amanda Kenepp, Neuroscience, *Evaluating Sleep in Young Children with Autism Spectrum Disorder: A Comparison of Actigraphy Data and Parent Report*, Professor Jill Hollway

Heekyung Kim, Molecular Genetics, *Elucidating the Role of the Stat 3(serine 727) Phosphorylation in Mammary Gland Involution*, Professor Sarmila Majumder

Zachary Lippman, Political Science, *The Impact of the Supreme Court on Deregulation of the Banking Industry*, Professor Lawrence Baum

Matthew Martello, English, *The Rhetoric of World-Building: Challenges and Offerings of the Hybrid-World Form*, Professor James Phelan

Brian McClure, Economics, *Child Support Arrears and Fathers' Labor Force Participation*, Professor David Blau

Maggie McClurg, Speech and Hearing Science, *Effects of High-Pass Filtering on Dialect and Gender Perception*, Professor Robert Fox and Professor Ewa Jacewicz

Elizabeth Riggs, Film Studies, *Navigating the Self in Near Future Science Fiction Films*, Professor Ryan Friedman

Abigail Robbertz, Psychology, *Identifying Anxiety and Depression in Patients with Chronic Lymphocytic Leukemia: An Examination of Risk Factors*, Professor Barbara Andersen

Austin Schoeffler, Neuroscience, *Modeling an Organogenetic Program Perpetuating the Neural Stem Cell Life Cycle*, Professor Fumihiko Watanabe

RECIPIENT OF \$3,070 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Troy Weider, French, *The Alsatian Connection: Preserving a French Regional Language in Central Texas*, Professor Jennifer Willging

RECIPIENTS OF \$2,500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Adriana Jurich, Biology, *Recovering the Evolutionary History of the Humped-nosed Mice (*Hybomys*) and Relatives Using the *IRBP* Gene*, Professor Ryan W. Norris

Clayton Peterson, Neuroscience, *Improving the Predictive Value of Experimental SCI through Innovative Biostatistics*, Professor Ian Schwab

Julianne Stamer, Anthropology, *Biodistance Analysis of North and South American Populations*, Professor Mark Hubbe

RECIPIENTS OF \$2,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Nicholas Crescimanno, Physics, *Terahertz Spectroscopy of Multiferroic Materials*, Professor Rolando Valdes Aguilar

Alexander Grooms, Chemistry, *Understanding the Recognition of Phosphate at the Surface of Water through Synthetic Receptors*, Professor Heather C. Allen

Alaina Monsey, International Studies, *The Role of the Fungal Microbiome in Rheumatoid Arthritis among Native Americans*, Professor Matthew Z. Anderson

Kiersten Sippola, Spanish, *The Consequences of Neoliberal Globalization on Mapuche Women's Land Rights*, Professor Ana Del Sarto

Gefei Wang, Biochemistry, *Comparison between Denture Base Materials Processed by the Traditional and a Two-cycle Method*, Professor Scott Schricker

David Weinraub, Criminology, *The Influence of Age and Gender on Decision-Making*, Professor David Melamed

RECIPIENT OF \$2,000 INTERNATIONAL RESEARCH GRANT

Troy Weider, French, *The Alsatian Connection: Preserving a French Regional Language in Central Texas*, Professor Jennifer Willging

RECIPIENTS OF \$1,500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Paul Banta, Neuroscience, *Neuroimmune Underpinnings of Stress-Induced Mood and Neural Dysregulation during the Postpartum Period*, Professor Benedetta Leuner

Aaron Guo, Biology, *The Role of BI-Spectrin in Cardiac Structure and Electrophysiology*, Professor Sakima Smith

Bo Lu, Computer and Information Science, *A Measurement Study of Countermeasures against Targeted Online Password Cracking*, Professor Yinqian Zhang

Sarah Solomon, Evolution, Ecology and French, *Coral Adaptation and Acclimatization to Global Change*, Professor Andrea Grottoli

RECIPIENT OF \$1,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Jackson Killian, Computer and Information Science, *Smartphone-Based Intelligent System Using Motion Sensors for Real-Time Intervention during Heavy Alcohol Consumption Events*, Professor Kevin Passino

RECIPIENTS OF \$750 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Ravali Kode, Chemistry, *Synthesis of Heterocyclic Quinone Methide Precursors for the Re-alkylation of Aged Acetylcholinesterase*, Professor Christopher Callam

Michael Kovacevich, Physics, *Analyzing the Correlation between High Energy Neutrinos and Cosmic Rays*, Professor James Beatty

Tyler Webb, History, *The Battling Buckeyes of the 37th Infantry Division*, Professor Peter Mansoor

RECIPIENTS OF \$500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Clara Aman, Neuroscience, *The Role of Bruton's Tyrosine Kinase in Autoimmune Hemolytic Anemia*, Professor Kerry Rogers

Megan Broughton, Biology, *Binding Qualities of Staphylococcus Aureus in Cardiac Implant Infections*, Professor Steven K Lower

Sarah Ewing, Linguistics, *Spell Checker for Virtual Patient Dialogue System*, Professor Michael White

Gregory Halsey, Microbiology, *The Role of Potent BTK/ITK Inhibitor Ibrutinib on the Development of Mature Dendritic Cells and Effective T-cell In-vivo Under Inflammatory Conditions*, Professor David A. Nagib

Nathanael Miller, Speech and Hearing Sciences, *Effects of Age and Hearing Loss on Driving Performance*, Professor Christina Roup

Judy Nayal, Biology, *Targeting PRMT5 in Mantle Cell Lymphoma*, Professor Robert Balocchi

Ella Pigg, Comparative Studies, *A Dramatic Approach to Technology*, Professor Phillip Armstrong

Sunder Sai, Neuroscience, *The Relationship Between Responsible Drinking Policies and Game-Day Incidents at The Ohio State University: a Preliminary Study*, Professor Paul Belair

Madison Smith, Chemistry, *Kinetic Investigation of the Bypass and Extension vs Productivity of a Bulky Lesion by DNA Polymerase Kappa to Prevent Certain Cancers*, Professor Zucui Suo

RECIPIENT OF \$188 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Alexander Prouty, Biochemistry, *Targeting HSP90 β in Lymphomas*, Professor Robert Balocchi

Note: Arts and Sciences faculty who served on the Research Scholarship Subcommittee of the Arts and Sciences Honors Committee included Professors Anna Grotans (Germanic Languages and Literature), Jennifer Mitzen (Political Science), Wendy Panero (Earth Sciences), and Richard Yerkes (Anthropology).