ARTS AND SCIENCES
SPRING SEMESTER 2017
UNDERGRADUATE RESEARCH SCHOLARSHIP COMPETITION

RECIPIENTS OF $11,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

George Andrei, History, Nationality before Nationalism: Ethnic Politics, Geopolitics, and the Sustainability of the Magyar Kingdom in the East (1191-1400), Professor Nicholas Breyfogle

Harrison Fillmore, Chinese, Face Masks in China: Perspectives on the Relationship Between the Environment and Health, Professor Susan C. Lawrence

Eleni Packis, Economics and Public Policy Analysis, Teachers’ Value Added and Career Trajectories, 1890-1920, Professor Stéphane Lavertu

RECIPIENTS OF $9,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Bethany Cady, Economics, Behavioral Preferences in Children, Professor Paul Healy

Genevieve Danial, International Studies, Comparing Differing Levels of Community Violence during the Rwandan Genocide, Professor Hollie Nyseth Brehm

RECIPIENTS OF $8,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Anna Callahan, Neuroscience, Insight in to why Skin Cancer Patients are at an Increased Risk of Developing Internal Cancers, Professor Tatiana Oberyszyn

Maya Gosztyla, Neuroscience and Molecular Genetics, Assessing Variation in Midline Axon Guidance in Natural Population Lines of Drosophila melanogaster, Professor Mark A. Seeger

Benjamin Green, Biology, Evaluating Anxiety and Depressing in Transgender Patients at The Ohio State University’s Transgender Primary Care Clinic, Andrew G. Keaster

LaNae Plaxico, Psychology, The Effects of Construal Level on Implicit Racial Bias, Professor Kentaro Fujita

Alejandra Timmins, English and Psychology, Sight Unseen: The Language of Images in Literature, Professor Nick White

RECIPIENTS OF $6,500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Seth Lyon, Biochemistry, Defective Processing of Mutated tRNAs by Mitochondrial RNase P as a Molecular Basis for Certain Cancers, Professor Venkat Gopalan
Abigail Sarver-Verhey, Anthropological Sciences, *Evolved: An Exhibition on Human Evolution*, Professor Mark Hubbe


**RECIPIENTS OF $5,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS**

Amelia Gulick, French, *Talking in Tongues: Exploring French and Québécois Identity through Language*, Professor Danielle C. Marx-Scouras

Kathleen Hudson, Psychology, *Mental Time Travel and Construal-level Associations: Functional Past and Future Thinking*, Professor Kentaro Fujita

Stephen Maldonado, Atmospheric Sciences and Earth Sciences, *Surface Atmospheric Conditions during the 2007 and 2012 Record Arctic Sea Ice Minima, Resolved by the Arctic System Reanalysis*, Professor W. Berry Lyons


Taylor Schaffner, Physics, *Probing Bayesian Methods for Determining Low Energy Constants*, Professor Richard Furnstahl

Skyler Ware, Chemistry, *Investigating the Stability and Selectivity of CuFeO2 Catalysts for CO2 Reduction to Acetate*, Professor Robert Baker

**RECIPIENTS OF $4,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS**

Megan Dailey, Linguistics and French, *Perceptual Dialect Classification and Acoustic Analysis of Northern and Midland Speech*, Professor Cynthia G. Clopper

Andrew Giltmier, Molecular Genetics, *Identifying Novel Protein Components of Cytoplasmic Capping Complex Using Proximity-Dependent Biotinylation*, Professor Daniel Schoenberg

Abigail Mills, Psychology, *Learning Mechanism Used When Categorizing Mathematical Information Surrounded by Perceptual Features*, Professor Vladimir Sloutsky

Joshua-Paolo Reyes, Biochemistry, *Investigating the Structural Determinants in the HIV-1 5’UTR that Control Genomic RNA Packaging Specificity*, Professor Karin Musier-Forsyth
Hannah Tomaszewski, Anthropological Sciences and Criminology, Guatemala: Rebuilding a Country in the Aftermath of Violence, Professor Hollie Nyseth Brehm

Mariah Willis, Psychology, The Impact of Perceived Changeability of Self-Regulation on Negative Feedback, Professor Kentaro Fujita

RECIPIENTS OF $3,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Hannah Barker, Biology, Characterization of the Novel KLK2-FGFR2 Fusion in Prostate Cancer, Professor Sameek Roychowdhury

Kristen Dammeyer, Chemistry, The Role of Cytoglobin in Smooth Muscle Cell Phenotypes: Consequences in Vascular Function, Professor Brenda J. Lilly

Richard Ross, Chemistry, Electrocatalytic Properties of Hydrogen Absorbing Zintl Phases, Professor Joshua Goldberger

RECIPIENTS OF $2,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Elizabeth Auckley, Chemistry, Understanding the Role of Dre2 in Cellular Iron-Sulfur Cluster Trafficking, Professor James Cowan

Jessica Waibl, Microbiology, Investigating the Role of ETS-1 in Natural Killer Cell Development, Professor Natarajan Muthusamy

John Wildenthal, Biology, Functional Selection of Methylthioribulose-1-phosphate Aldolase Genes for Anaerobic Methionine Salvage, Professor F. Robert Tabita

RECIPIENTS OF $1,500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Elijah Gardner, Microbiology and English, Functional Characterization of a Novel RAF1 Mutant in Human Cancers, Professor Sameek Roychowdhury

Stephanie Hempfling, Biology, The Effect of Diet on Avian Cecum Size and Intestinal Absorbency Rate, Professor Jacqueline Augustine

Elaine Louden, Molecular Genetics and Spanish, Creating Higher Order Mutations with CRISPR Constructs, Professor Keith Slotkin

Connor Wagner, Neuroscience, Toward a More Robust Gene Expression Signal for Alzheimer’s disease Neurodegeneration, Professor Jeff Kuret

RECIPIENTS OF $1,000 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Camille Bratton, Biology, Lessons from the Animal Kingdom, Professor Shahid M. Nimjee
Mikayla Dantuono, Biology, Development of a DNA Intron Sequencing Assay for Clinical Grade Detection of Gene Fusions in Cancer, Professor Sameek Roychowdhury

Amber Dock, History and Geography, Distance as Difference: The History of Scientifically Created Racialization, Professor Christopher J. Otter

Kara Edwards, Chemistry, Synthesis of β-Amino Alcohols through Selective C-H Amination, Professor David A. Nagib

Jered Fehlman, Microbiology, Analysis of Paclitaxel (PTX) on Exosomes, Vesicles Secreted by Cancer Cells for Cell-Cell Communication, Professor Tsonwin Hai

Thomas Gao, Biology, The role of N⁶-methyladenosine (m⁶A) methylation on Gene Expression and Replication in Human Metapneumovirus, Professor Jianrong Li

Madeline Herrmann, Evolution and Ecology, Transit Velocity in the American Cockroach with Restricted Intestinal Bacteria, Professor Zakee L. Sabree

Erin Place, Biology, Variation in Organ Size between Migratory and Non-migratory Birds, Professor Jacqueline Augustine

Alexandra Richey, Psychology and Criminology, Age, Place and Perceived Factors of Success in Life in Poland (1988-2013), Professor Kazimierz M. Slomczyns

Anne Taylor, Neuroscience, Extensive Mitochondrial Networks in Astrocytes Indicate Higher Energy Consumption to that in Neurons, Professor Min Zhou

Vilas Winstein, Mathematics and Computer Information Science, Implementing a New Method for Computing the Riemann Zeta Function, Professor Ghaith Hiary

RECIPIENTS OF $500 UNDERGRADUATE RESEARCH SCHOLARSHIPS

Alivia Ball, Speech and Hearing Science, Re-assessing Hearing Loss after Simulated Gunfire Noise, Professor Eric Bielefeld

Rachel Beery, Geography and International Studies, Women’s Adaptation to Climate Change Effects on Population Dynamics, Professor Elisabeth D. Root

Michael Chung, Biochemistry, Documentation of Gravity Sensing Mechanotransduction Pathways into Tissue-Engineered Skeletal Muscle, Professor Peter Lee

Adelle Kenney, Psychology and English, Henchard and Histrionics; Why His Character is Flawed and how it Changes Him, Professor Robyn R. Warhol

Alec Sheets, Evolution and Ecology, Macroevolutionary Relationship between Body Size and Color Patterns in Squirrels, Professor Andreas Chavez
Adnan Siddique, Biology, *A Comparison of Bird Digestive Systems by Diet*, Professor Jacqueline Augustine

Bridget Walsh, Biochemistry, *Thread Spray Ionization*, Professor Abraham K. Badu-Tawiah

Ebony Williams, Psychology, *Preliminary Evidence of a Positive Relationship between Resting Heart Rate Variability and Trait Worry in a Sample of Women*, Professor Julian F. Thayer

Note: Arts and Sciences faculty who served on the Research Scholarship Subcommittee of the Arts and Sciences Honors Committee included Professors Danielle Marx-Scouras (French and Italian), Jennifer Mitzen (Political Science), Wendy Panero (Earth Sciences), Laura Wagner (Psychology), and Amy Youngs (Art).