

**2018 Undergraduate Summer Research Awards**

Faculty Investigator(s)	College	Title of Proposal
Gallagher, Vickie Coleman/Porter, Tracy/Valcea, Sorin/Baran, Ben	Business	Refugee Resettlement Worker Resiliency and Workplace Conditions
Li, Qian	CLASS	Safe Bubble Animation
Lieske, Joel	CLASS	Researching the Effects of Diversity on American Government and Politics
Medina-Rivera, Antonio	CLASS	Spanish in Contact with Quechua
Novisky, Meghan	CLASS	The Role of Violence Exposure and Medical Neglect During Incarceration on Reentry
Olszewski, Carol	CLASS	RAS Expanded: Visual and Tactile Cueing with Individuals with Gait Disorder
Rose, Shelley/Souther, Mark	CLASS	Out of the Archive and Into the Classroom: Oral History Resources for Education
Wanyerka, Phil	CLASS	Archaeological Investigations at the Fort Hill Earthwork Complex
Fuller, Kimberly/Clonan-Roy, Katie	CLASS/Education	Sexual Health Information Access for Sexual Minority Individuals
Berry, Anne/DeBoth, Kelle/Schaefer, John	CLASS/COSHP/Education	PLAAY on the Move: An Interprofessional Utilization of Technology to Optimize Engagement of Children with Special Needs within the Community
Bayachou, Mekki	COSHP	Anticoagulant coatings on blood-contacting medical devices based on Nitric Oxide (NO) releasing films
Berdis, Anthony	COSHP	Testing the ability of artificial nucleosides to enhance the cell-killing activity of doxorubicin against breast cancer
Bickel, Jessica/Heus, Thijs	COSHP	Examining the Effect of Peer Instruction Quizzes on Student Outcomes in Introductory Physics
Dean, Jeffrey	COSHP	Influence of wave amplitude on how African clawed toads choose between two stimuli
Espy, Debbie	COSHP	Testing a simple fall-arrest harness vs. an actuated and instrumented harness in reactive balance training
Fodor, Petru/Streletzky, Kiril	COSHP	Wet SEM Imaging of polymeric microgels in liquids
Hammonds, Michael/Sahley, Tony/Woodside, Brian	COSHP	Stereotaxic Rodent Neurosurgery and Electrophysiology: Focus on the Locus Coeruleus Stress Response
Jeziorowski, John	COSHP	Case Concentration: An Academic Arcade Game for Physical Therapist Education
Kondratov, Roman	COSHP	Circadian control of diet induced changes in glucose homeostasis
Lammers, Andrew	COSHP	Impact of cranial nerve lesions on muscle activity and airway protection during sucking and swallowing in an infant pig model
Li, Bibo	COSHP	Express recombinant TbRPA1 and TbRAD51 proteins in E. Coli for antibody production
Mueller, Kevin/Rauschert, Emily	COSHP	Quantifying the ability of common invasive shrubs to acquire and use water, to tolerate drought, and to compete with native plants
Naser, Shereen/Goncy, Elizabeth/Fuller, Elizabeth	COSHP	Understanding gender differences in early adolescent decisions to use drugs and alcohol
Rauschert, Emily	COSHP	Challenges for urban organic agriculture: quantifying urban vs. rural weed communities and seedbanks
Reinthal, Ann/Ekelman, Beth	COSHP	Validation of wearable sensor balance data collected in the community garden multidirectional harness system
Resnick, Andrew	COSHP	Construction and evaluation of a CosmicWatch muon detector
Sam-Yellowe, Tobili	COSHP	Expression and purification of recombinant Plasmodium falciparum PfMC-2TM Maurer's cleft protein for epitope studies and antibody production
Severson, Aaron	COSHP	Breaking and Enforcing the Laws of Mendelian Inheritance
Smith, Albert F.	COSHP	The Role of Holistic Properties in Word Perception
Streletzky, Kiril/Kaufman, Miron	COSHP	Entropy driven volume phase transition in polymeric microgels
Su, Bin	COSHP	Toxicology study of a novel tubulin inhibitor via proteomic approaches
Sun, Xue-Long	COSHP	Metabolic Regulation of Cell Surface Sialoform of Macrophage and Its Function
Vitali, Jacqueline	COSHP	Crystallization of an Archaeal Dihydroorotase
Walton, B. Michael	COSHP	Climate change in the forest-floor food web: How do interactions among species influence the effects of climate change within the detrital food web of temperate forests?
Wendland, Madalynn/Giuffre, Suzanne/DeMarco, Jodi	COSHP	The T.E.A.M Approach to Interprofessional Education
Yorke, April	COSHP	Literacy for Individuals with Complex Communication Needs
Zhou, Aimin	COSHP	TMCO1 is a novel target for cancer chemotherapy
Heus, Thijs/Ryan, Shawn/ Zhang, Shiqi	COSHP/COSHP/ENG	Using machine learning to determine the cloud size distributions of observed and simulated cumulus clouds
Liao, Kelly Yu-Hsin	EDU	The Misunderstood Stereotype of Strong Black Women: How It Leads to Negative Mental Health Outcomes and Its Protective Factor
Chan, Paula	Education	Evaluating Two Methods for Recruiting Student Feedback in the College Classroom
King-White, Dakota	Education	Assessing the Social, Emotional, and Mental Needs in Urban Schools to Support Academic Achievement
Ao, Geyou	ENG	Probing the Effect of Metal Ions on DNA-Wrapped Carbon Nanotube Dispersions
Borkar, Tushar	ENG	Influence of Spark Plasma Sintering (SPS) Processing parameters on Microstructure and Magnetic Properties of Soft Magnatic Materials
Gatica, Jorge	ENG	Multi-phase Waste Gasification – Reaction Engineering for Sustainable Living Environments
Gumma, Sasidhar	ENG	Synthesis and Characterization of Nanoporous Materials
Holland, Nolan	ENG	Decorating a Cage Protein with Elastin-like Polypeptides to Create a Twelve-armed Star Polymer
Jenkins, Jacqueline	ENG	Scenario Development for Car Following Studies
Lee, Moo-Yeal	ENG	A 384-pillar plate platform for creating human liver tissue mimics
Tewari, Surendra	ENG	Microstructural inhomogeneity in directionally solidified metallic alloys: influence of interdendritic convection during solidification
Zhao, Wenbing	ENG	Virtual Reality Based Serious Games for STNA Training
Wirth, Christopher/Ryan, Shawn	ENG/COSHP	Influence of surface forces on the locomotion of active particles
Kothapalli, Chandrasekhar/ Fodor, Petru/Borkar, Tushar	ENG/COSHP/ENG	Interdisciplinary research on the optimization, fabrication and implementation of micromixers
Rubado, Meghan/Kaufman, Sanda	Urban	International Organization for Standardization 14001 Environmental Certification: A Study of Effectiveness and Membership Motivation
Tighe, J. Rosie	Urban	Housing Discrimination in Online Advertising
Wukich, Clayton	Urban	Local Government Social Media Use: Toward Public Participation and Interagency Collaboration?