

2021 Undergraduate Summer Research Awards

Faculty Investigator(s)	College	Title of Proposal
Slankard, Cigdem	CLASS	New American Chronicles
Layman, Deborah	CLASS	The effect of preferred music on the self-reported anxiety of a state-ranked high school athlete
Grebenyova, Lydia	CLASS	The Language and Culture of the Cleveland Hispanic Community
Yaroslavsky, Ilya	COSHP	Predictors of well-being during pervasive stress and social isolation
Streletzky, Kiril	COSHP	Microgel Shape Fluctuations Studied by Depolarized Dynamic Light Scattering
Zhou, Aimin	COSHP	The role of Rnase L in kidney function
Shukla, Girish	COSHP	Regulation of androgen receptor by ARLNC1 during prostate cancer
Sun, Xue-Long	COSHP	Synthesis and Evaluation of Sialic Acid Analogues for Modulating LPS/TLR4 Signaling Pathway
Weyman, Crystal	COSHP	Novel approach to study the cell cycle regulation of molecules controlling the coordinated processes of skeletal myoblast differentiation and apoptosis (cell death)
Resnick, Andrew	COSHP	High-speed video acquisition and analysis of Taekwondo kicks
Li, Bibo	COSHP	Expression and purification of recombinant SNAP42 and SNAP26 proteins from E. coli for raising polyclonal antibodies
Bickel, Jessica/Resnick, Andrew	COSHP	Examining Phase Transitions in Absinthe
Espy, Debbie	COSHP	Examining the intensity of balance training for fall prevention
Sam-Yellowe, Tobili	COSHP	Investigating predatory behavior of Colpodella sp. using internalized fluorescent nanoparticles
Mueller, Kevin	COSHP	Growing the urban forest: resilience of tree growth to environmental variability
Dean, Jeffrey	COSHP	Role of vision in African clawed toads' prey-capture behavior: Does a toad's own movement affect response frequency and turn accuracy to lateral line stimuli
Dean, Jeffrey	COSHP	Role of vision in African clawed toads' prey-capture behavior: Preferences for moving visual stimuli and changes with age
Smith, Albert F.	COSHP	Color-Word Contingency Learning: Effects of Item Frequency
Gore Panter, Shamone	COSHP	Knockdown of transcript-specific PANC1 gene expression in monolayer atrial-like cardiomyocytes
Bayachou, Mekki	COSHP	Detection and quantification of nitric oxide in cell line models of Cystic Fibrosis disease
Hammonds, Michael/Sahley, Tony/Anderson, David	COSHP	Mouse Neurosurgery, ELISA and Cryostat Histology for Corticosterone and Dynorphin E
Bayachou, Mekki	COSHP	Nanostructured alginate-NOS hydrogel with sustained release of nitric oxide: a platform to study of NO-driven modulation of carcinogenesis
Lammers, Andrew	COSHP	Effects of unequal right vs. left limb mass changes on angular momentum and stability during locomotion
Horvath, Michael	COSHP	The relationship between border keeper characteristics and work-nonwork balance
Rauschert, Emily	COSHP	Vacant lot seedbanks: homogenization and opportunities for ecosystem services across urbanization gradients
Huang, Grace/Lam, Eddie T.C.	EDU	Children's Perceptions of Resettled Refugee Parents' Parenting Practices
Wachira, Patrick	EDU	An exploratory study of technological tools for teaching learner-centered mathematics online
Buckley, Mary Frances	EDU	Youth-led Research Goes Online: Examining community, relationships, and data collection during a Virtual, School-based YPAR project
Ao, Geyou	ENG	Hexagonal Boron Nitride Nanosheets as Emulsion Stabilizers
Allena, Srinivas	ENG	Effect of Graphene Oxide on Mechanical, Shrinkage and Durability Properties of Normal Strength Concrete
Zhao, Wenbing	ENG	Develop a Mobile App Towards Stronger Sense of Belonging for College Students during the COVID-19 Pandemic
Zhang, Jingru	ENG	Line-Constrained L_∞ One-Median on Uncertain Points in the Plane
Borkar, Tushar	ENG	Microstructure, Mechanical and Tribological Behavior of Spark Plasma Sintered Titanium Carbide (TiC)-Titanium Nitride (TiN) based Composite Coatings
Zhu, Ye	ENG	Securing Augment Reality Devices
Yu, Hongkai/Gao, Zhiqiang	ENG	Learn to Control an Autonomous Vehicle Through a Driving Simulator
Chi, Zicheng	ENG	Exploring IoT Jamming Attack on Satellite Communications
Yang, Shaowei	ENG	Adsorption and molecule transport study in CHA-type zeolite membranes for pervaporative dehydration of acetic acid
Gatica, Jorge	ENG	Waste to Energy: Catalytic Gasification of Household Recyclables
Kumar, Sathish	ENG	Identification of Cancerous Tissues from Histopathological Images using Deep Learning
Holland, Nolan/Streletzky, Kiril	ENG/COSHP	Characterizing diblock polypeptide micelles - the building blocks of polypeptide hydrogel bio-inks