

2020 Undergraduate Summer Research Awards

Faculty Investigator(s)	College	Title of Proposal
Grebenyova, Lydia	CLASS	Language and Culture of the Cleveland Greek Community
Isakin, Maksim	CLASS	Sentiment and Business Cycle
Lieske, Joel	CLASS	Immigration, Diversity, and the American Democratic Experiment
Deering, Lynn	CLASS	Community-based Dance Training put into Action
Dean, Jeffrey	COSHHP	Determination of the visual field and response probabilities of African clawed toads for visual stimuli
Mueller, Kevin/Rauschert, Emily	COSHHP	Contrasting the response of common native and invasive shrubs and trees to water availability
Yuan, Fasong	COSHHP	A comparative study of phosphorus geochemistry on sediments from Ohio's inland lakes
Bayachou, Mekki	COSHHP	DNA films as Sensitive Interfaces for Peroxynitrite Detection and Quantification
Helmy, Sameh	COSHHP	Development of High Impact, Green Chemistry Experiments for the Organic Teaching Laboratory
Su, Bin	COSHHP	Dimeric prozosin as anti-trypanosomal agent
Crawley, Manuella/DeMarco, Jodi	COSHHP	Virtual Student Honorary for Health Promotion
DeMarco, Jodi, Crawley, Manuella	COSHHP	Benefits of Interprofessional Education in Undergraduate Pre-Professional Health Students
Lammers, Andrew	COSHHP	Effects of increasing angular momentum on stability during rapid quadrupedal locomotion
Reinthal, Ann/Espy, Debbie	COSHHP	Kinematic analysis of changes in gaming intensity
Yorke, April	COSHHP	Raising the Bar for Literacy...Musical Literacy Interventions for Individuals with Complex Communication Needs and At-Risk Kindergartners due to Low SES
Hammonds, Michael/Sahley, Tony/Woodside, Brian	COSHHP	Neurosurgical Stimulation of Brainstem Connections in the Systemic Stress Response Impacting Potential Auditory Damage
Galetto, Federico	COSHHP	Jets of edge ideals of graphs
Lopez Valdez, Hiram	COSHHP	Storing information using mathematics
Margolius, Barbara	COSHHP	Numerical Analysis of Stochastic Processes with Time-varying Periodic Rates
Resnick, Andrew/Bickel, Jessica	COSHHP	Examining Phase Transitions in Absinthe
Fodor, Petru/Streletzky, Kiril	COSHHP	Imaging of soft-matter particulate systems using electron microscopy
Vitali, Jacqueline	COSHHP	Following the DHOase Reaction with pH in Methanococcus jannaschii
Heus, Thijs/Ryan, Shawn	COSHHP	Evaluating the mixing and precipitation of clouds as a function of size
Allard, Eric	COSHHP	Minority Stress and Well-Being for LGBT+ Older Adults
Horvath, Michael	COSHHP	The relationship between border keeper characteristics and non-work balance
Yaroslavsky, Ilya	COSHHP	Targeting patient-specific risk patterns for opioid use and cravings in "real time" will improve treatment outcomes
Li, Bibo	COSHHP	Validate the interactions between telomere protein candidates and known telomere proteins
Sam-Yellowe, Tobili	COSHHP	Investigating predatory behavior of Colpodella sp. using internalized fluorescent nanoparticles
Weyman, Crystal M.	COSHHP	Identification of a MyoD mutant capable of inducing myoblast differentiation in the absence of myoblast death
Sun, Xue-Long	COSHHP	Synthesis and Evaluation of Sialic Acid Analogues for Modulating LPS/TLR4 Signaling Pathway
Mueller, Kevin	COSHHP	Quantifying the impact of tree canopy traits on the amount of rainfall that trees divert from runoff in cities
Liu, Xiongyi	EDU	Gender Representation and Gender Stereotypes in Digital Games for K-12 Math and Science
Northrop, Laura/Clonan-Roy, Katie	EDU	Examining School Districts Use of Social Media Marketing and Representation in the Digital Age
Andrei, Elena	EDU	The Landscape of Digital Technology Use with Adolescent English Learners in US Schools
Buckley, Mary Frances	EDU	Making sense of youth sense-making: An inquiry into how youth perspectives are centered in youth-led research
Chan, Paula	EDU	Evaluating Litigation on Reasonable Accommodations in Higher Education
Huang, Grace/Lam, Eddie T.C.	EDU	Parenting Style and Practice Scale (PSPS): Examining Resettled Refugee Parents' Parenting Practices
Clonan-Roy, Katherine/Fuller, Kimberly/Goncy, Naser, Shereen	EDU/CLASS/COSHHP	Sex Education in the Digital World: A Qualitative Examination of how LGBTQ+ Students Access Sexual Health Information in Social Media Spaces
Lam, Eddie T.C./Matcham, William	EDU/Nursing	Comparison of the Effect of Mechanic and Electronic HandGrips on Lowering Blood Pressure
Gatica, Jorge	ENG	Waste to Energy: Catalytic Gasification of Household Recyclables
Lee, Moo-Yeal	ENG	Intestinal organoids for modeling inflammatory bowel diseases
Allena, Srinivas	ENG	Durable Concrete Mixtures Using Dolomite Powder as Cementitious Material
Owusu-Danquah, Josiah	ENG	Towards optimized-biomedical bone staples: Numerical Simulations
Kumar, Sathish	ENG	USRA: Algorithmic Fairness in Cyberbullying Detection
Wang, Haodong	ENG	Machine Learning based Smartphone Malware Classification
Zhao, Wenbing	ENG	Develop a Mobile App Towards Evidence-Based Assessment of Human Behavior
Borkar, Tushar/Ao, Geyou	ENG	Hexagonal Boron Nitride (h-BN) reinforced Aluminum Composites: Microstructure, Mechanical and Tribological Behavior
Zhang, Wei/Gao, Zhiqiang	ENG	Mobile Meteorology Tower: Measuring Wind Using a Hovering Drone Network
Holland, Nolan	ENG	Synthesis and Characterization of Protein-Based Bio-Inks
Jenkins, Jacqueline	ENG	Walk or Don't Walk; There is No Try
Zhu, Ye	ENG	Protecting Privacy of Augment Reality Enabled Social Networking Services
Mikelbank, Brian	Urban	Spatial Analysis of the Settlement and Migration Patterns of Cleveland's Foreign-Born Population, 1930-1940
Wukich, R Clayton	Urban	Local Government and Social Media Management