

2022 Undergraduate Summer Research Awards

Faculty Investigator(s)	College	Title of Proposal
Morgan, Todd	BUS	Customer Participation Scope: Unpacking Customer Relationship Management and Open Innovation Activities
Heath, Michele; Porter, Tracy	BUS	Systematic Review: Understanding the Predictors and Effects of HIPAA Breaches
Layman, Deborah	A&S	The Therapeutic Function of Music in Meeting the Social/Emotional Needs of At-Risk Middle Schoolers
Dean, Jeffrey	A&S	Influence of a toad's own movement on response frequency and turn accuracy to lateral line stimuli
Dean, Jeffrey	A&S	Is processing in the lateral line system of African clawed toads modified by attention?
Grunert, Brice	A&S	Observing phytoplankton community diversity in Lake Erie from satellite observations
Li, Bibo	A&S	Validation of four RAP1-interaction candidates
Mueller, Kevin	A&S	Long-term monitoring of forest functions in northeast Ohio, from the city to the exurbs
Rauschert, Emily	A&S	Weed seedbank communities in urban agriculture
Sam-Yellowe, Tobili	A&S	Isolation and purification of Colpodella sp. (ATCC 50594) trophozoites and cysts from diprotist culture using Percoll density gradient centrifugation
Severson, Aaron	A&S	Preventing meiotic cohesin function in mitotically dividing cells
Shukla, Girish	A&S	Post-transcriptional regulation of the Androgen Receptor via the 3' untranslated region in prostate cancer
Wolin, Julie	A&S	Evolution and Morphological Variation in a Rotifer Species (<i>Keratella cochlearis</i>)
Avram, Erin	A&S	Quantification of Mercury in Purple Martin Feathers
Bayachou, Mekki	A&S	Multifunctional nanoplatfrom assembled from alginate hydrogel co-loaded with cisplatin and silver nanoparticles to study drug delivery and modulation in cancer cell lines
Sun, Xue-Long	A&S	Synthesis and Evaluation of Sialidase Inhibitors
Zhou, Aimin	A&S	Rnase L regulates the expression of cytokines in macrophages induced by S-protein
Bickel, Jessica	A&S	Reconstruction Driven Organic Molecule Crystallization
Streletzky, Kiril	A&S	Using Depolarized Dynamic Light Scattering to Study Confinement Effects in Polymer-Grafted Gold Nanorod Solutions
Vitali, Jacqueline	A&S	Crystallization of complexes of <i>M. jannaschii</i> Dihydroorotase with ligands
Horvath, Michael	A&S	The effects of work-related intrusions into family time
Smith, Albert F.	A&S	Emergent Lexicality and Orthographic Regularity in Classification of Two-Letter Strings
Yaroslavsky, Ilya	A&S	Physiological and attentional deficits undermine adaptive emotion regulation outcomes
Heus, Thijs; Ryan, Shawn	A&S	Evaluating the mixing and precipitation of clouds as a function of size
Lopez, Hiram	A&S	Uncovering matrices for cryptography
Goncy, Liz; Naser, Shereen; Fuller, Kim; Clonan-Roy, Katie	A&S/EDU&PA	School-Based Sexuality Education for LGBTQ+ Youth: A Systematic Review
Hammonds, Michael; Sahley, Tony; Anderson, David	HLTH/A&S	Mouse Neurosurgery, ELISA and Cerebrospinal Fluid Extraction for Cortisone and Dynorphin
Yuan, Fasong; Zhu, Ye	A&S/ENG	Collaborative Research: Developing a Prototype Network of Smart Rain Gauges for Environmental Research and Education
Fodor, Petru; Kothapalli, Chandrasekhar	A&S/ENG	Development of Micromixing Strategies Using Extensional Mixing Elements
Streletzky, Kiril; Holland, Nolan	A&S/ENG	Direct measurements of specific refractive index for polymeric microgels and polypeptide micelles
Gnanapragasam, Merlin Nithya	A&S	Studying the functions of Pumilio1 (PUM1) in hemoglobin switching and erythropoiesis
Chan, Paula	EDU&PA	Litigation on the Americans with Disabilities Act in K-12 Schools
Huang, Grace; Lam, Eddie T.C.	EDU&PA/HLTH	A Mixed Method Approach to Examine Resettled Refugees Parenting Practices
Ao, Geyou	ENG	Liquid Crystals and Aligned Films of Cellulose Nanocrystal-Templated Boron Nitride Nanotube Dispersions
Gatica, Jorge	ENG	Catalytic Gasification: A Reaction Engineering Solution to Plastic Recycling
Holland, Nolan	ENG	Characterizing the Temperature Responsive Behavior of Decorated Viral Like Particles
Uz, Metin	ENG	Flexible electronic device for on-demand ocular drug delivery
Yang, Shaowei	ENG	2D CHA-Type Zeolite Synthesis and Adsorption Related Applications
Jenkins, Jacqueline	ENG	Walk or Don't Walk; There is No Try - Revisited
Kidando, Emmanuel	ENG	Does Route Familiarity Influence Roadway Safety?
Kumar, Sathish	ENG	Quantum Support Vector Machine Approach for Detecting DDoS Attacks
Kumar, Sathish	ENG	Graph-Based Deep Learning Techniques for Cybersecurity
Rahmati, Mehdi	ENG	Adaptive Sampling for Water Quality Monitoring using Unmanned Underwater Vehicles
Zhang, Jingru	ENG	Computing the center of uncertain points on a cactus graph
Zhao, Wenbing	ENG	Develop an Online Portal Towards Personalized Learning in Engineering
Zhu, Ye	ENG	Enabling New Security Applications with Augment Reality Devices
Borkar, Tushar	ENG	Mechanistic Understanding of Phase Stability, Transformation, and Strengthening Mechanisms in a Low-Density High Entropy Alloys
Goudarzi, Navid	ENG	Studying hybrid renewable energy systems in support of sustainable energy production: the case study of electric vehicles charging stations
van den Bogert, Antonie	ENG	Self-Calibrated Wearable Sensing for Force Estimation During Upper Extremity Exercise
Richter, Hanz; Reinthal, Ann	ENG/HLTH	Development and preliminary testing of a walk-assist device with dynamic support
Yu, Hongkai; Gao, Zhiqiang	ENG	Establishing a Virtual Testing and Validation Platform for Motion Planning and Control of Automated Vehicles

A&S = College of Arts and Sciences
 HLTH = College of Health
 ENG = Washkewicz College of Engineering

EDU&PA = College of Education and Public Affairs
 BUS = Monte Ahuja College of Business