

2019 Research & Creative Activities Program
Award Recipients & Project Titles

College of Health & Human Services

Xiuhua	Ding	Public Health	Interaction Effect Between Sleep Apnea and Apolipoprotein E (ApoE) on Risk of Dementia
--------	------	---------------	--

Gordon Ford College of Business

Jacob	Byl	Economics	Valuation Study of Endangered Species at Mammoth Cave National Park
-------	-----	-----------	---

Ogden College of Science & Engineering

Farhad	Ashrafzadeh	SEAS	Building a Research Foundation for Assessing the Safety of Autonomous Vehicle-to-Pedestrian Technology in Kentucky
--------	-------------	------	--

Gregory	Blass	SEAS	Effect of Cold storage Transplant Solution on Kidney Function
---------	-------	------	---

Katrina	Burch	Psychological Sciences	Exploring the Feasibility of Deploying a Technological Intervention Aimed at Increasing Mobility of Community-Dwelling Elderly and Decreasing Caregiver Burden
---------	-------	------------------------	--

Xingang	Fan	Geography & Geology	Exploring the Inter-relationships among Land-surface Processes for Predicting Regional Climate
---------	-----	---------------------	--

Nahid	Gani	Geography & Geology	Transient river response to faulting: Observations from alluvial rivers draining across the Baton Rouge Fault Zone, coastal Louisiana
-------	------	---------------------	---

Kirolos	Haleem	SEAS	Investigating Distracted Driving in Kentucky: A Driving Simulator Study
---------	--------	------	---

Lawrence	Hill	Chemistry	Synthesis of Core/Shell Nanoparticle Catalysts Using Ionic Liquids
----------	------	-----------	--

John	Khouryieh	SEAS	Evaluation of the Role of Anionic Polysaccharides on the Oxidative Stability of Fish Oil-in-Water Emulsions
------	-----------	------	---

Yaser	Mowafi	SEAS	An Augmented Interactive Learning Approach Using QR Codes Mobile Technologies for Learning Counting and Numbers at Early Childhood Education
-------	--------	------	--

Sharon	Mutter	Psychological Sciences	Aging and Attention in Associative Learning
Matthew	Nee	Chemistry	Comparing Kinetic Mechanisms for Photolysis and Photocatalytic Degradation using Raman Spectroscopy
Leslie	North	Geography & Geology	Design and Evaluate a Data-Driven Virtual Reality Environment: Lost River Cave and Valley Case Study
Morteza	Nurcheshmeh	SEAS	Advanced Methods in Forming Auto-Body Parts
Ozkan	Ozer	Mathematics	Developing a Novel Approximation Toolbox for the Control of a Large Class of Vibrating Smart Material Systems
Keith	Philips	Biology	The Amazing and Unexplored Diversity of Peruvian Spider Beetles (Coleoptera: Ptinidae)
Jason	Polk	Geography & Geology	A Scientific Approach to Cooperative Groundwater Resource Mapping and Management in Belize
Eric	Rappin	Geography & Geology	Harnessing Kentucky Mesonet Observations to Assess the Role of Kentucky Climate on Traffic Crash Patterns and Severity
Asghar	Rezasoltani	SEAS	Development of Wind-Induced Vulnerability Database for Residential Construction Using Model-Based Computational Fluid Dynamics Simulations
Jenni	Teeters	Psychological Sciences	Evaluation of an Automated versus an Interactive Text-Messaging Intervention to Reduce Substance-Impaired Driving among College Students
Zhonghang	Xia	SEAS	A Data Warehouse System for Air Quality Prediction

Potter College of Arts & Letters

Amanda	Clark	Theatre & Dance	Research for a Dance Appreciation Textbook
Kate	Horigan	Folk Studies & Anthropology	Contested Commemoration in Bosnia-Herzegovina
Ching-Yi	Lin	Music	String Performance at Seoul Arts Center