

## **2022 Research & Creative Activities Program**

### **Award Recipients & Project Titles**

#### **College of Education & Behavioral Sciences**

Qin	Zhao	Psychology	Do Incremental Mindsets of Personality Predict Increased Forgiveness of Singular Transgression but Reduced Forgiveness of Continual Transgressions?
Soyoung	Park	Teacher Education	Math SPARK: Early Numeracy Intervention for First-Grade Students With Mathematics Difficulties

#### **College of Health & Human Services**

YuChun	Chen	Kinesiology	The effects of a 5-week jump rope intervention on the physical performance and psychological measures of elementary school students
Yuan	Fang	Applied Human Sciences	Classroom design optimization for daylighting and visual comfort: occupant perception and task performance in immersive virtual environments

#### **Gordon Ford College of Business**

Lily	Popova-Zhuhadar	Information Systems	Building a Research Infrastructure for Assisting Radiologists in Detecting Brain Diseases: Brain Imaging Network Data Repository (BINDR)
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#### **Ogden College of Science & Engineering**

William	Struck	Agriculture	Evaluation of plant growth regulators to hemp for changes to canopy architecture, yield, and cannabinoids
Amy	Brausch	Psychological Sciences	Adapting the Card Sort Task for Self-Harm (CaTS) for Adolescents
Kirolos	Haleem	Engineering & Applied Sciences	Understanding and Enhancing Driver Safety at Work Zones: A Driving Simulator Study
Luiz	Silva	Agriculture	Fat deposition and beta-carotene metabolism in bulls, steers, and heifers
Rui	Zhang	Chemistry	Synthesis of Novel Core-Antenna Photocatalysts for Important Oxidations
Jeffery	Galloway	Engineering & Applied Sciences	Development of Autonomous UAVs for Environmental Mapping and Creation of a Virtual Reality Experience

Keith	Philips	Biology	The Unexplored Diversity of the Spider Beetles and their link to Lomas Habitats in the Atacama Desert of South America (Coleoptera: Ptinidae)
Simran	Banga	Biology	Functional characterization of LneB, an effector protein of Legionella pneumophila in host during an infection
Moon-Soo	Kim	Chemistry	Next generation of CRISPR/Cas system as a diagnostic probe for rapid detection of antibiotic resistance genes in a 2D-nanosheet based biosensor
Lawrence	Hill	Chemistry	Catalysts for hydrogenation of carbon dioxide
Jason	Polk	Earth, Env., & Atmos. Sci.	Predictive Flood Modeling for Emergency Response Planning in Urban Karst Groundwater Systems using Hydrological Network Density Analysis
Jasminka	Terzic	Physics and Astronomy	Novel Phases In 4d- and 5d-element Based Chalcogenides

## Potter College of Arts & Letters

Landon	Elkind	Political Science	Principia Mathematica: A Critical Edition
Marilee	Salvator	Art and Design	Biologically Inspired Printmaking Installation Project
Natalie	Tyree	Art and Design	Point of Origin: Combining Analog and Digital Processes for Enhanced Visual Story Telling
E. Shura	Pollastek	Theatre and Dance	Design in Conversation
Bradley	Pennington	School of Media	The Disappearance of Addy Robicheaux
Dorothea	Browder	History	Schools in the Interwar Period (Chapter 6 of book manuscript, _Working Women,...
Zachary	Lopes	Music	The Muczynski Project: Complete Works for Solo Piano , Volume 2
Tiffany	Isselhardt	Kentucky Museum	Cataloging Archeological Collections