

SEED Funding 2021

Project Title (ER)	PI Name	PI's Department	Co-PI Name(s), if applicable
A chip for retina-like artificial neuromorphic vision sensing	Thomas, Jayan	NanoScience Technology Center	
A Scalable, Non-Contact, Nondestructive Evaluation Approach for Future-City Infrastructures with Data-Driven Adaptive Sensing Strategy	Sun, Peng "Patrick"	Civil, Environmental, and Construction Engineering	
A Superior Platform for Synthetic Spider Silk	Leon, Lorraine	Materials Science and Engineering	
Academic Language of STEM: Unpacking Next Generation Science Standards and Developmentally Appropriate Practice in Pre-Kindergarten Curriculum	Michael Luna, Sara	School of Teacher Education	
COVID-19 cases and deaths in U.S. nursing homes: An examination of influencing factors	Wang, Xiaochuan	Social Work	
Decoding Mood Variations in Humans from High Density Electroencephalogram (EEG)	Yang, Yuxiao	Electrical and Computer Engineering	
Do ticks go on blind dates? Disentangling the visual system of lone star ticks and its role in mate recognition	Fitak, Robert	Biology	
Earth-Abundant Catalyst Promoted Polyolefin Hydrogenolysis for Plastics Upcycling	Jurca, Titel	Chemistry	
emPower through Play: Participatory Design of Games for Diversity in Leadership	Johnson, Emily	English	Bubriski, Anne
Exploratory mixed method study of recovery coaching for family members of loved ones with substance use disorder	Atkins, Danielle	Health Management and Informatics	Andraka-Christou, Barbara
Exploring outcomes of FitMoms2B exercise program among African American women with high-risk pregnancy	Davis, Jean	Nursing Practice	Giurgescu, Carmen
EXPLORING THE ICY OUTSKIRTS OF THE SOLAR SYSTEM : Innovative approach	Pinilla-Alonso, Noemi	Florida Space Institute	
High Fidelity Lunar Dust Propagation and Charging Interactions: Modeling and Experiments.	Elgohary, Tarek	Mechanical and Aerospace Engineering	Dove, Adrienne
Improving Transfer Student Learning and Academic Success Through Peer Academic Coaching	Wilkerson, Amanda	Educational Leadership & Higher Education	McLaren Turner, Claudine
Making Sense of Long Covid: Illness Narratives Within and Beyond the Doctor's Office	Singer, Sarah	English	
MemoryScan: Smart Digital Transformation of Large-Scale Environments for Eliciting Location-Specific Knowledge	Kider, Joseph	School of Modeling, Simulation, and Training	Walters, Lori
Multiscale investigation of Blood-Brain-Barrier transportability of a novel neuroprotectant composition	Kang, Ellen	NanoScience Technology Center and Physics	Sugaya; Kiminobu
Myeloid Immune Cell Dysregulation in Pancreatic Tumor Progression	Altomare, Deborah	Burnett School of Biomedical Sciences	Nguyen, Hung
Novel Volumetric 3D Printing of Ultra-Soft Materials towards High Shape Fidelity and Tunable Properties	Gou, Jihua	Mechanical and Aerospace Engineering	Ilegbusi, Segun
Purchase, installation, and implementation of an NAP-XPS-compatible electrochemical cell for operando characterization of emerging catalysts	Kaden, William	Physics	Feng, Xiaofeng
Rapid, Non-Destructible Detection of CAM Activity using Hyperspectral Leaf Reflectance	Goolsby, Eric	Biology	
Researching the Gwendolyn Brooks Archive at the University of California at Berkeley for a Book Chapter and a Journal Article	Fogarty, William	English	
Sparse Labeling for Dense Video Understanding	Rawat, Yogesh Singh	Computer Science	
Stakeholder Interpretations of Scientific Information Literacy: Surveying Orange and Seminole County K-16 Educators	Randles, Christopher	Chemistry	
The Effect of Cerium Oxide Nanoparticle Treatment on Bone Strength and Repair in a Rodent Bone-Defect Model Following Irradiation-Induced Bone Damage.	Coathup, Melanie	Internal Medicine, Faculty Cluster Initiative	
The impacts of tourism on residents' quality of life, health, and well-being	Fyall, Alan	Rosen College of Hospitality Management	Godovych, Maksim
The role of TNF- α and hypoxia in cardiovascular damage associated with COVID-19	Zervos, Antonis	Burnett School of Biomedical Sciences	
Topological Insulator Fibers	Bandres, Miguel	CREOL, The College of Optics and Photonics	Amezcuca Correa, Rodrigo
Project Title (IR)			
A simple and sensitive antibody test technology for diagnosing COVID-19	Xia, Xiaohu	Chemistry	Wang, Xiaochuan; Liu, Xinliang
A Study of U.S. Correctional Workers' Wellbeing, Organizations, Roles, and Knowledge	Mitchell, Meghan	Criminal Justice	Ricciardelli, Rosemary (Rose); Carelton, Nicholas
Alcohol use and impacts on sexual violence and sexual risk behavior: Identification of mechanisms and development of intervention strategies	Woerner, Jacqueline	Sociology	Dunn, Michael; Dvorak, Robert; Cook, Christa; Villalba, Karina
An interdisciplinary approach towards the management of velopharyngeal dysfunction in children with 22q11.2 deletion syndrome	Kollara Sunil, Lakshmi	School of Communication Sciences and Disorders	Kellogg, Brian; Chandra, Tushar; Johnson, Craig
Capturing Multi-Scale Materials Degradation under thermal, mechanical and chemical attack	Raghavan, Seetha	Mechanical and Aerospace Engineering	Kuebler, Stephen; Ghosh, Ranajay
Influences of coupled natural-human systems on sea-level rise adaptation pathways for Florida	Alvarez, Sergio	Tourism, Events, and Attractions; UCF Coastal	Baggio, Jacopo; Emrich, Christopher; Wahl, Thomas
Molecules-to-Materials: A Synergistic Approach Towards ALD-Based Fabrication of Functional Oxide Heterostructures for High Efficiency Photovoltaics	Davis, Kristopher	Materials Science and Engineering, Faculty Cluster Initiative	Jurca, Titel; Schoenfeld, Winston
Semiconductor Nanoparticle Structures for Trapping Human Viruses	Kumar, Ranganathan	Mechanical and Aerospace Engineering	Kar, Aravinda; Gupta, Manish
Tracking Community Transmission and Exposure of an Infectious Disease using Passively Collected Location Data	Hasan, Samiul	Civil, Environmental, and Construction Engineering	Yu, Haofei; Fu, Yanjie; Hines, Robert (Robin); Stevens, Kelly