



## Monthly New Awards – December 2022

### **Ahmed, Kareem**

Enhancing Jet Breakup via High-Frequency Ultrasound  
University of California at San Diego  
\$60,000  
College of Engineering and Computer Science

### **Bhattacharya, Samik**

Three-Dimensional Gust Control with Morphing Wings  
US Air Force Office of Scientific Research  
\$166,798  
College of Engineering and Computer Science

### **Bhattacharya, Samik**

Turbulent Aerodynamic Experimental Flow Through Industrial Gas Turbine Exhaust Cylinder & Manifold  
Power Systems Manufacturing, LLC  
\$59,601  
College of Engineering and Computer Science

### **Burke, Shawn | Ehrhart, Mark**

Center for Team Effectiveness to Accelerate EBP Implementation in Children's Mental Health Services  
University of California at San Diego  
\$206,587  
School of Modeling, Simulation, and Training

### **Chambers, Lisa**

The Interplay of Nitrogen Loading and Ecosystem Sustainability in Threatened Wetlands  
National Science Foundation  
\$374,855  
College of Sciences

### **Ciarlante, Katherine**

Testing a Dynamic Model of Employee Health and Well-being: How Changes in Job Stressors Influence Psychological, Behavioral, and Affective Outcomes  
University of South Florida  
\$9,504  
College of Sciences

### **Ewetz, Rickard**

Robust Explanations Using Diverse Adversarially Trained Ensembles, Multi-Modal Contrastive Learning, and Attribution-Based Confidence Metrics

U.S. Department of Energy

\$200,000

College of Engineering and Computer Science

**Feuerstein, Julie**

Facilitating Intentional Communication in Young Children with Complex Communication and Motor Needs: Integrating Communication and Motor Supports to Optimize Treatment Effects

American Speech-Language-Hearing Foundation

\$35,000

College of Health Professions and Sciences

**Gu, Lixing**

EnergyPlus Software Development and Technical Assistance

Alliance for Sustainable Energy, LLC/National Renewable Energy Laboratory

\$210,000

Florida Solar Energy Center

**Hill, Ethan**

The Acute Effects of Blood Flow Restricted and Standard of Care Resistance Exercise on Neural, Muscle, and Perceptual Responses Among Individuals Living with Relapsing Remitting Multiple Sclerosis

Suji's BFR Technology

\$14,820

College of Health Professions and Sciences

**Jane, Robert Andrew**

USACE Work on Compound Flooding

U.S. Army Corps of Engineers

\$153,926

College of Engineering and Computer Science

**Jones, W Linwood**

Inter-Satellite Radiometric Calibration for TROPICS

NASA Shared Services Center

\$39,860

College of Engineering and Computer Science

**Kauffman, Jeffrey L.**

System Identification of Mistuned Blisks via Low-Order Modeling and Stochastic Parameter Exploration

Duke University

\$23,954

College of Engineering and Computer Science

**Kuebler, Stephen | Yu, Xiaoming**

Axogen-UCF Phase 1 Project

Axogen

\$60,000

College of Optics and Photonics

**Lighthall, Nichole**

The Effect of Age on Trust in Avatars vs Humans in an Economic Decision-Making Trust Game

Learning Institute for Elders at UCF

\$750

College of Sciences

**Logue, CarolAnn Dykes**

Economic Development - Fiscal Year 2022-2023 Funding Agreement between the City of Orlando and UCFRF

City of Orlando

\$775,000

Business Incubation Program

**Lyakh, Arkadiy**

Quantum Cascade Laser Development

Northrop Grumman Corporation

\$50,000

NanoScience Technology Center

**Moreto, William**

2022-2023 UCF Student Support for the Orange County Sheriff's Office

Orange County Sheriff's Office

\$72,929

College of Community Innovation and Education

**Mouton, Christine**

Mouton, VOCA, TG/RS 2022-2023

Florida Office of the Attorney General

\$234,704

Victim Services

**Ricci, Erika**

The Italian Social Transformations and Choices About Political Violence

American Political Science Association

\$7,020

College of Sciences

**Schambeau, Charles | Fernandez, Yan**

Measuring Volatile Production in Active Centaurs with JWST NIRSpec

Space Telescope Science Institute

\$16,465  
Florida Space Institute

**Shah, Mubarak | Abdel-Aty, Mohamed | Enyioha, Chinwendu**  
NSF Engineering Research Center for Smart Streetscapes  
The Trustees of Columbia University in the City of New York  
\$307,724  
Center for Research in Computer Vision

**Sigman, Michael | Tang, Larry | Williams, Mary**  
Enhanced Ignitable Liquid and Substrate Database Functionality for Improved Casework and Research  
National Institute of Justice  
\$289,496  
College of Sciences

**Sonne, Jeffrey | Chasar, David | Martin, Eric | Withers, Charles**  
FSEC Support of Ventamatic, LTD  
Ventamatic, Inc.  
\$209,155  
Florida Solar Energy Center

**Stangle, Kimberly**  
Catalyst Osceola  
Orlando Economic Partnership, Inc.  
\$749,974  
Florida High Tech Corridor Council

**Wahl, Thomas**  
Work on Compound Flooding  
U.S. Army Corps of Engineers  
\$153,926  
College of Engineering and Computer Science

**Weishampel, John | Aldarondo-Jeffries, Michael | Amin Gutierrez de Pineres, Sheila | Muniz, Cyndia | Preston, Michael | Toro, Natalia**  
Pathways for Latina/o/x Graduate STEM Success  
Alfred P. Sloan Foundation  
\$123,257  
College of Graduate Studies

**Wu, Dazhong**  
Physics-informed Self-Supervised Machine Learning: A Hybrid Approach for Prognostics of Energy and Aviation Systems  
FACE Foundation  
\$10,000

College of Engineering and Computer Science

**Xia, Xiaohu**

Colorimetric Lateral Flow Assay Using Unique Hollow Nanoparticles as Labels

National Science Foundation

\$129,974

College of Sciences