



## Monthly New Awards - August 2020

**Abouraddy, Ayman | Christodoulides, Demetrios | Dogariu, Aristide | Schepler, Kenneth**

Classical Entanglement in Structured Optical Fields

Office of Naval Research

\$1,500,000

College of Optics and Photonics

**Bagci, Ulas**

Radiologist-Centered Artificial Intelligence for Lung Cancer Screening and Diagnosis

National Cancer Institute

\$576,431

Center for Research in Computer Vision

**Beever, Jonathan | Klonoff, Elizabeth | Kuebler, Stephen | Pinkert, Laurie**

Intersections of Moral Foundations and Ethics Frameworks in STEM Enculturation

National Science Foundation

\$599,301

College of Arts and Humanities

**Bennett, Christopher**

The Influence of Carbon-Bearing Species During the Space Weathering of Asteroids and Meteorites: Implications for Remote Observations and the Production of Complex Molecules

NASA Shared Services Center

\$15,518

College of Sciences

**Caranto, Jonathan**

Mechanism of O<sub>2</sub>-Dependent Nitramine Degradation by a Heme Enzyme

U.S. Army Contracting Command

\$585,369

College of Sciences

**Cooper, Katelyn**

Undergraduate Learning Environments in Biology

National Science Foundation

\$74,319

College of Sciences

**Dagley, Melissa | Leavens, Gary**

Computer Science Pathway for Woman

Northeastern University

\$525,000

College of Engineering and Computer Science

**Donley, Amy**

First Responders - Comprehensive Addictions Recovery Act Grant  
Orange County Board of County Commissioners  
\$74,459  
College of Sciences

**Driggers, Ronald | Renshaw, Kyle**

Near-Infrared Camera for Burmese Python Detection  
Florida Fish and Wildlife Conservation Commission  
\$249,830  
College of Optics and Photonics

**Fu, Yanjie**

Substructure-Aware Spatiotemporal Representation Learning  
National Science Foundation  
\$75,000  
College of Engineering and Computer Science

**Gao, Su**

Developing a Practice-Based Interdisciplinary Teacher Preparation Program at the Intersection  
of Science, Second Language, and Literacy Acquisition  
National Science Foundation  
\$300,000  
College of Community Innovation and Education

**Ge, Yue | Hall, Jeremy | Kapucu, Naim | Wang, Liqiang**

Leveraging Smart Technologies and Managing Community Resilience Through Networked  
Communities and Cross-Sector Partnerships  
National Science Foundation  
\$1,225,000  
College of Community Innovation and Education

**Ghosh, Ranajay**

Origins of Damping in Biomimetic Scale Exoskeletal Metamaterials and Their Influence on Limit  
Cycles  
National Science Foundation  
\$252,582  
College of Engineering and Computer Science

**Hagan, David**

Nonlinear Optical Measurements of Inorganic and Organic NLO Materials  
KBR Wyle Services, LLC  
\$30,000  
College of Optics and Photonics

**Hoffman, Phil**

WUCF: Florida DOS Cultural Affairs FY 2021 – 2022  
Florida Department of State  
\$49,413  
Communications and Marketing

**Kaden, William | Feng, Xiaofeng | Liu, Fudong | Seal, Sudipta | Tetard, Laurene**  
Acquisition of a Near Ambient Pressure Xray Photoelectron Spectroscopy Apparatus for  
Research and Education  
National Science Foundation  
\$542,486  
College of Sciences

**Kapat, Jayanta**  
Multi-Jet NPR Heat  
Siemens Canada Ltd.  
\$7,295  
College of Engineering and Computer Science

**Kilbride, Mike**  
Administrative Support  
University of South Florida  
\$190,000  
Presidential Division

**Kilbride, Mike**  
stemCONNECT  
University of South Florida  
\$85,000  
Presidential Division

**Kilbride, Mike**  
FLVEC  
University of South Florida  
\$20,000  
Presidential Division

**Kinzel, Michael**  
CFD Design, Analysis, and Support for Dragonfly  
Pennsylvania State University  
\$10,000  
College of Engineering and Computer Science

**Kourova, Alla**  
2020 STARTALK University of Central Florida Board of Trustees  
National Security Agency  
\$89,740  
College of Arts and Humanities

**Mahalanobis, Abhijit**  
Compressed Convolutional Neural Network with Spectral Learning  
Lockheed Martin Missiles  
\$50,000  
Center for Research in Computer Vision

**Mansfield, Kate | Forsman, Anna | Savage, Anna | Seney, Erin**

Understanding Genomic, Behavioral, and Microbial Drivers of Ontogenetic Shifts in Early Sea Turtle Foraging Ecology and Habitat Use  
Florida Institute of Oceanography  
\$339,867  
College of Sciences

**Metzger, Philip**

Maturing Ejecta STORM for Lunar Delivery  
NASA Shared Services Center  
\$482,991  
Florida Space Institute

**Metzger, Philip**

Ultra Low-Energy Lunar Water Extraction  
NASA Shared Services Center  
\$124,999  
Florida Space Institute

**Poziemski, Elizabeth | Baudot, Lisa**

An Examination of Auditor Evidence Sufficiency Determinations  
Association of International Certified Professional Accountants  
\$8,000  
College of Business

**Quintana-Ascencio, Pedro**

Potential Mechanisms of Population Decline  
U.S. Government  
\$10,779  
College of Sciences

**Schrimshaw, Eric**

Acceptability of HIV Treatment as Prevention among MSM  
Trustees of Columbia University New York  
\$18,337  
College of Medicine

**Shah, Mubarak | Rawat, Yogesh Singh**

Discovering Schemas from Diverse Data  
University of Southern California  
\$84,002  
Center for Research in Computer Vision

**Solihin, Yan | Shah, Mubarak**

Scaling Secure Serverless Computing on Heterogeneous Datacenters  
National Science Foundation  
\$83,557  
College of Engineering and Computer Science

**Song, Sang-Eun**

FW-HTF-P Future Healthcare Technologies and Multidisciplinary Workforce Readiness  
National Science Foundation  
\$150,000  
College of Engineering and Computer Science

**Southwell, Amber**

Evaluating Antibody Distribution and Target Engagement in a Mouse Model of Huntington Disease  
AFFiRiS AG  
\$109,978  
College of Medicine

**Stevens, Kelly**

Impact Analysis of Power Purchase Agreements in Florida  
Solar United Neighbors  
\$10,000  
College of Community Innovation and Education

**Vasu Sumathi, Subith**

Combustion Investigation of Fuel-Oxidizer Mixtures at Conditions Relevant to Supercritical Combustors  
Argonne National Laboratory  
\$100,000  
College of Engineering and Computer Science

**Vasu Sumathi, Subith**

Combustion Investigation of Fuel-Oxidizer Mixtures at Conditions Relevant to Supercritical Combustors  
University of Chicago  
\$100,000  
College of Engineering and Computer Science

**Vela, Adan | Karwowski, Waldemar | Keathley, Heather**

Supervise It! Optimizing Intelligent Robot Integration Through Feedback to Workers and Supervisors  
National Science Foundation  
\$1,042,683  
College of Engineering and Computer Science

**Walters, Linda**

3rd Party Cash Cost Share Related to Award 0000007891  
Coastal Conservation Association Florida  
\$5,000  
College of Sciences

**Wang, Jun | Awad, Amro | Guo, Zhishan**

Data Centric Computing for Scalable Heterogeneous Memory and Storage Systems Architecture  
National Science Foundation  
\$250,000  
College of Engineering and Computer Science

**Wu, Shintson**

Photostable High Birefringence Liquid Crystals

Sony Corporation

\$100,000

College of Optics and Photonics

**Yao, Fan**

Understanding and Taming Deterministic Model Bit Flip Attacks in Deep Neural Networks

National Science Foundation

\$250,000

College of Engineering and Computer Science