



UNIVERSITY OF
CENTRAL FLORIDA

Monthly New Awards - March 2017

Amezcuca Correa, Rodrigo

Application of Photonic Lantern Technology for RF Photonics and Telecom Applications

Harris Corporation

\$25,000

College of Optics and Photonics - CREOL

Ash, Konstantin

Insecurity, Political Opportunism and Ethnic Riot Participation in Kyrgyzstan

International Peace Research Association Foundation

\$5,000

College of Sciences - Political Science

Bagci, Ulas / Pensky, Marianna Y / Song, Sang-Eun

Utilization of In Utero Diffusion Tensor Magnetic Resonance Imaging to Evaluate Neurological Disorders

Caused by Zika Virus

Florida Department of Health

\$199,254

Center for Research in Computer Vision / College of Engineering and Computer Science - Mechanical and
Aerospace Engineering / College of Sciences - Mathematics

Bagley, Dean A. / Mansfield, Katherine

Understanding Behavioral Traits of Adult Male Green Turtles (Chelonia Mydas)

National Save the Sea Turtle Foundation

\$6,500

College of Sciences - Biology

Bai, Yuanli

Fracture Prediction of Advanced High Strength Steel Sheets

American Iron and Steel Institute

\$65,000

College of Engineering and Computer Science - Mechanical and Aerospace Engineering

Bridge, Candice M.

Characterization and Classification of Sexual Assault Lubricants using Direct Analysis in Real Time – Time of

Flight Mass Spectrometry

US Department of Justice

\$324,082

College of Sciences - Chemistry / College of Sciences - National Center for Forensic Science

Bryer, Thomas / Zavattaro, Staci Michele

Orlando Pulse Nightclub Shooting: Chronicling the City Response
City of Orlando
\$54,519
College of Health and Public Affairs - Public Administration

Chumbimuni Torres, Karin Yanet / Kolpashchikov, Dmitry M / Parks, Griffith Davis

A Universal Nucleic Acid Recognition Platform for Detection of Zika Virus
Florida Department of Health
\$198,875
College of Medicine - School of Biomedical Science / College of Sciences - Chemistry

Cole, Alexander M. / Cole, Amy L.

HVTN Vaccine Trials Laboratory Services Project - Year 7
Fred Hutchinson Cancer Research Center
\$23,166
College of Medicine - School of Biomedical Science

Colwell, Joshua E.

Investigating the Collisional and Dynamical Evolution of Comets Subcontract from CSUSB
University Enterprises Corporation at CSUSB
\$66,570
College of Sciences - Physics

Crabbs, Robert F.

ARI: Testing at SLF
Aegis Technologies Group, Inc.
\$12,600
College of Optics and Photonics - CREOL

Diaz, Desiree A. / Anderson, Mindi A.

Creation and Validation of a Pediatric Sepsis Early Recognition Simulation and Checklist
Gaumard Scientific
\$30,995
College of Nursing - Nursing

Dogariu, Aristide

Modeling of Pigment Clusters in Paint Formulations
Sherwin Williams Company
\$97,581
College of Optics and Photonics - CREOL

Donley, Amy M.

Red Ribbon Year 2
Informed Families
\$20,000
College of Sciences - Sociology

Dvorak, Robert

Response Inhibition Training in Smoking Cessation
National Institutes of Health
\$120,852
College of Sciences - Psychology

Emrich, Christopher

Florida Department of Economic Opportunity Impact and Unmet Needs Assessment
\$26,606
College of Health and Public Affairs - Public Administration / Faculty Cluster Initiative - Sustainable Coastal Systems

Gerasimova, Yulia

Point-Of-Care Diagnostic Platform for Zika Virus Infection Based on Visual Split Deoxyribozyme Sensors.
Florida Department of Health
\$200,000
College of Sciences - Chemistry

Gregory, Amy M.

HGVC Task Research Support Spring 2017
Hilton Resorts Corporation
\$14,096
Rosen College of Hospitality Management - Dick Pope, Sr. Institute for Tourism Studies

Hasan, Samiul

Disaster Analytics: Disaster Preparedness and Management through Online Social Media
University of Tennessee
\$49,771
College of Engineering and Computer Science - Civil, Environmental, and Construction Engineering

Hoffman, Phil

Indie Lens Pop-Up
Independent Television Service, Inc.
\$3,500
Division of Strategy, Marketing, Communications, and Admissions

Huo, Qun / Parks, Griffith Davis

Point of Care Assay Development for Diagnosis of Zika Viremia
Florida Department of Health
\$199,280.00
College of Medicine - School of Biomedical Science / College of Sciences - Chemistry / NanoScience Technology Center

Jentsch, Florian G. / Rivera, Javier A.

Identifying CRM Training Techniques in the Airline Industry
US Department of Transportation/Federal Aviation Administration (FAA)
\$275,000
College of Sciences / Institute for Simulation and Training

Khaled, Annette

Novel Actin Polymerization Inhibitor Test in Pancreatic Cancer Mixed Cell Reaction Culture System
Florida Hospital
\$7,031
College of Medicine - School of Biomedical Science

Kim, Yoon-Seong

Developing Aptamer-Based Wearable Diagnostic Device
Nexmos Co., Ltd.
\$150,000
Burnett School of Biomedical Sciences - Biomolecular Science Center

Kinchen, Elizabeth V.

Holistic Nursing Values in Nurse Practitioner Education
Sigma Theta Tau International
\$684
College of Nursing

Li, Xiaoman

Bacterial Haplotype Reconstruction Directly from Next Generation Sequencing Reads
National Institute of General Medical Sciences
\$371,043
College of Medicine - School of Biomedical Science

Mansfield, Katherine / Seney, Erin E.

Marine Turtle Nesting and Reproductive Success on the Archie Carr National Wildlife Refuge - 2017-2018
Brevard County Board of Commissioners
\$185,506
College of Sciences - Biology

Montoya, Vicki L.

Determinants of Nephrology Provider Use of Conservative Management vs. Dialysis in Patients <75 Years
Sigma Theta Tau International
\$684
College of Nursing

Nam, Boo Hyun

Development of Statistical Models to Predict the Compressibility of Florida's Soils
Florida Department of Transportation
\$120,100
College of Engineering and Computer Science – Civil, Environmental, and Construction Engineering

O'Neal, Thomas P.

Innovation Challenge Sponsorship 2017
The Cairns Foundation, Inc.
\$15,750
Office of Research and Commercialization

O'Neal, Thomas P. / Georgiopoulos, Michael

Central Florida - STEM Training Consortium

Sonobi, Inc.

\$37,500

College of Engineering and Computer Science - Department of Electrical and Computer Engineering -

Industrial Engineering and Management Systems / Office of Research and Commercialization

Parks, Griffith Davis / Soulakova, Julia N. / Willenberg, Bradley Jay

Zika Virus Activation and Inhibition of Human Complement Immunity

Florida Department of Health

\$500,408

College of Medicine - Internal Medicine - School of Biomedical Science

Pourmohammadi Fallah, Yaser

Modeling and Control of Information-Driven Smart Transportation Systems

Texas A&M Engineering Experiment Station

\$118,292

College of Engineering and Computer Science - Department of Electrical and Computer Engineering

Putnam, Shawn Arthur

CAREER: Active Cooling of Extreme Heat Fluxes via Transient Fluid Flow and Evaporation in Liquid Thin-films

National Science Foundation

\$510,000

College of Engineering and Computer Science - Mechanical and Aerospace Engineering

Richardson, Kathleen A.

Advanced Materials IRAD - Broadband Gradient Index (GRIN) Optics

Lockheed Martin Missiles and Fire Control

\$45,000

College of Optics and Photonics - CREOL

Riley, Kayonne

CPB Community Service Grant - Radio - FY16 -18

Corporation for Public Broadcasting

\$103,650

College of Arts and Humanities - WUCF-FM Radio

Savage, Anna E. / Hinkle, Charles R. / Hoffman, Eric

Using Genetics and Ecology to Identify Optimal Conservation Strategies for Florida Scrub-Jays

(Aphelocoma Coerulescens) Impacted by Habitat Loss

Florida Department of Transportation

\$232,954

College of Sciences - Biology

Schultz, John J.

Consultation of Forensic Anthropology Technical Expertise 2016-2017
Orange County Board of Commissioners
\$6,000
College of Sciences - Anthropology

Shrauger, Kristine J. / Hood, Yolanda Ann

DIVERse Families: Growth in Family Diversity A Comprehensive Bibliography PK-12 (A Continuation)
American Library Association
\$4,000
Information Technologies and Resources - University Libraries

Tatulian, Suren A. / Chen, Bo / Teter, Kenneth R

Structure and Toxicity of Amyloid beta Hetero-Oligomers
Florida Department of Health
\$100,000
College of Medicine - School of Biomedical Science / College of Sciences - Physics

Thiamwong, Ladda / Conner, Norma E.

Development of a Falls Prevention Program for Older Adults: A Pilot Study.
The Learning Institute for Elders
\$2,650
College of Nursing

Vasu Sumathi, Subith / Ahmed, Kareem A.

Rotating Detonation Combustion for Gas Turbines - Phase II
Aerojet Rocketdyne, Inc.
\$310,964
College of Engineering and Computer Science - Center for Advanced Turbomachinery and Energy Research -
Mechanical and Aerospace Engineering

Vie, Stephanie

Social Media in the Composition Classroom
National Council of Teachers of English
\$8,100
College of Arts and Humanities - Writing and Rhetoric

Winston, Haley

UCF's Office of Student Involvement AmeriCorps VISTA Grant
Corporation for National and Community Service
\$23,782
Student Development and Enrollment Services - Office of Student Involvement

Xia, Xugang

Mechanisms of Neurodegeneration in ALS
National Institute of Neurological Disorders and Stroke
\$144,708
College of Medicine - School of Biomedical Science

Yuksel, Murat

OMEGA: Online Management, Experimentation, and GAmE of Large-Scale Networks
University of Nevada, Reno
\$42,022
College of Engineering and Computer Science - Department of Electrical and Computer Engineering

Zhou, Hongxia

Study on Neurodegeneration using TDP-43 Transgenic Rats
National Institutes of Health
\$1,170,749
College of Medicine - School of Biomedical Science

Zhou, Hongxia / Xia, Xugang

Redesign Rat Model for ALS Research
National Institute of Neurological Disorders and Stroke
\$698,135
College of Medicine - School of Biomedical Science