

3-2019

## ORED Communicator - March 2019

Office of Research and Economic Development, Florida International University

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## Upcoming Events

### March

- ⇒ **March 1, 12:30 to 1:30 pm, AHC5 #300, FIU-RCMI Research in Progress Seminar**, presented by Karina Villalba
- ⇒ **March 1, 2 to 3 pm, ECS 241, SCIS Invited Lecture Series: Using Video Games to Reverse Engineer Human Intelligence**, presented by Samuel Gershman
- ⇒ **March 1, 3 to 4 pm, WC 130, Characterizing the Shifting Role of Wildfire in Ecosystem and Watershed Processes**, presented by Erin Hanan
- ⇒ **March 3 - 6, FIU Graham Center, The International Workshop on Antenna Technology (iWAT) 2019 at Miami, FL, registration required—prices vary**
- ⇒ **March 4, 1 to 2 pm, WC 130, Community Physiological Ecology: Linking Animal Homeostasis to Life History and Ecological Interactions**, presented by Robin Warne
- ⇒ **March 4, 1 to 2 pm, PG2 120, Analysis of Sequence-Defined Alleles in Mixtures**, presented by Brian Young
- ⇒ **March 4, 3 to 4 pm, WC 130 Investigating Urban Ecology and Sustainability Through the Lens of Urban Ecological Infrastructure**, presented by Daniel Childers
- ⇒ **March 6, 12 to 1 pm, WC 130, Karst Processes and the Environmental History of the Miami Rock Ridge**, presented by Jack Meeder
- ⇒ **March 8, 9 to 10 am, EC 2300, Light in Turbulence-like Biological Tissues**, presented by Olga Korotkova
- ⇒ **March 8, 12:30 to 1:30 pm, AHC3 #214, Challenges in Discovering Next-Generation Therapeutics for Advanced Prostate Cancer**, presented by Ramesh Narayanan
- ⇒ **March 8, 2 to 3 pm, EC 3930, Electrical and Computer Engineering's Spring 2019 Seminar Series**, presented by Elisa Bertino
- ⇒ **March 8, 12:00 to 1:00pm, AHC1 #110, Speaker Series - A Rational Mental Health System for Youth**, presented by Peter Szatmari
- ⇒ **March 8, 8 to 10 pm, CP 145, What do black holes look like: staring at the beast?**, presented by James Webb
- ⇒ **March 15, 12:30 to 1:30 pm, AHC5 #300, FIU-RCMI Research in Progress Seminar**, presented by Wasim Maziak
- ⇒ **March 18, 3 to 4 pm, WC 130, Modeling Carbon and Nutrients to Inform Ecosystem Management**, presented by Andrea Nocentini
- ⇒ **March 21, 3 to 4 pm, WC 130, Vector-Pathogen Interactions: From Molecules to Mechanisms**, presented by Girish Neelakanta
- ⇒ **March 22, 9 to 10 am, EC 2300, Biomedical Engineering Coulter Lecture Series—Self-cleaning Thermoresponsive Membranes for Implanted Glucose Biosensors** presented by Melissa Grunlan
- ⇒ **March 22, 11 am to 12 noon, PG5 #134, Investigating How Oxidative Stress Accelerates Telomere Loss: Implications for Cancer and Aging**, presented by Patricia Opresko
- ⇒ **March 22, 12:30 to 1:30 pm, AHC5 300, FIU-RCMI Research in Progress Seminar**, presented by Elisa Trucco and Matthew Sutherland

March 2019

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## Upcoming Events—continued

### March (continued)

- ⇒ **March 28, 1:30 to 2:30 pm, WC 130, [Amphibian Diversity, Thermal Physiology, and Species' Vulnerability to Climate Change along Tropical Elevational Gradients](#)**, presented by [Rudolf von May](#)
- ⇒ **March 29, 12:30 to 1:30 pm, AHC5 300, [FIU-RCMI Research in Progress Seminar](#)**, presented by [Hui Huang](#)

### April

- ⇒ **April 3, 9:30 to 11 am, PG 5 215, [Psychological First Aid in Disasters](#)** (morning lecture same as afternoon), presented by [Mark Macgowan](#)
- ⇒ **April 3, 1:30 to 3 pm, PG 5 215, [Psychological First Aid in Disasters](#)** (afternoon lecture same as morning), presented by [Mark Macgowan](#)
- ⇒ **April 5, 9 to 10 am, EC 1104, [Revisiting Muscle Spindle Function to Understand Impaired Sensorimotor Control](#)**, presented by [Lena Ting](#)
- ⇒ **April 5, 11 am to 12 noon, PG 5 134, [Lysine Acetylation of Replication Proteins Regulates the Choice of the Lagging Strand Maturation Pathway](#)**, presented by [Lata Balakrishnan](#)
- ⇒ **April 5, 12:30 to 1:30 pm, AHC5 300, [FIU-RCMI Research in Progress Seminar](#)**, presented by [Thomas H. Brandon](#)
- ⇒ **April 5, 12:00 to 1:00pm, AHC1 #110, [Speaker Series - Irritability in Youth](#)**, presented by [Ellen Leibenluft](#)
- ⇒ **April 5, 3 to 4 pm, WC 130, [Exotic Mud-Ocean Chemistry and Hydrodynamics as Controls of Mud Production on Great Bahama Bank](#)**, presented by [Sam Purkis](#)
- ⇒ **April 9, 2 to 3 pm, MARC Pavilion, [The Leadership Research Colloquium](#)**, presented by [Nathan Hiller](#) and [Cecily Cooper](#)—RSVP at: <https://lead.fiu.edu/colloquium>
- ⇒ **April 12, 3 to 4 pm, WC 130, [Regional Groundwater Modeling over the Lower West Coastal Superficial and Intermediate Aquifers in South Florida](#)**, presented by Yirgalem Assegid
- ⇒ **April 14 to 18, Hilton Miami Downtown Hotel, [2019 International Applied Computational Electromagnetics Society Symposium](#)**, [registration required](#)

### May

- ⇒ **May 1 and May 2, 9 am to 6 pm, SASC, [8<sup>th</sup> Annual Florida Forensic Science Symposium](#)**, presented by FIU's [International Forensic Research Institute](#), part of the [Global Forensic and Justice Center](#)

## Awards Received—January 2019

FIU researchers were awarded \$9,609,314 in January 2019. Below is a listing of awards received.

#### Alluri, Priyanka

College of Engineering and Computing  
Civil and Environmental Engineering  
University of Florida  
Provide Technical Support on Safety Analyst  
Initial

\$18,000

**Alluri, Priyanka**

College of Engineering and Computing  
 Civil and Environmental Engineering  
 Florida Department of Transportation  
 Guidelines for Installing Pedestrian Channelization Barriers at Midblock Locations  
 Initial

\$150,000

**Alluri, Priyanka**

College of Engineering and Computing  
 Civil and Environmental Engineering  
 Florida Department of Transportation  
 Strategies to Mitigate Wrong-way Driving Incidents on Arterials  
 Initial

\$148,916

**Alluri, Priyanka**

College of Engineering and Computing  
 Civil and Environmental Engineering  
 Florida Department of Transportation  
 Strategies to Identify and Mitigate Secondary Crashes using Real-time Traffic Data  
 Initial

\$220,000

**Bejar, Elizabeth**

Academic Affairs - Other Units  
 Student Affairs Vice President's Office  
 Council for Adult and Experiential Learn  
 Adult Learner360 Academy  
 Initial

\$40,000

**Bhardwaj, Shubhendu**

College of Engineering and Computing  
 Electrical and Computer Engineering  
 North Carolina State University  
 Upadhyay Supplement to 800002444  
 Increase

\$60,000

**Briceno, Henry**

College of Arts, Sciences & Education  
 SERC  
 Pennsylvania State University  
 Response of carbon cycling to climatic and anthropogenic perturbations  
 Increase

\$32,109

**Brown, Ellen**

Nicole Wertheim College of Nursing and Health Sciences  
 Miami Jewish Health Systems  
 Miami Jewish Health and FIU Research Collaboration  
 Supplemental

\$17,413

**Burgman, Robert**

College of Arts, Sciences & Education  
 Earth and Environment  
 University of Miami  
 Decadal Prediction and Predictability of Extremes in Ocean Eddy Resolving Coupled Models  
 Initial

\$87,500

**Chapagain, Prem**

College of Arts, Sciences &amp; Education

Physics

Luna Health Sciences Group Luna Innovation

Marburg Virus Prophylactic Medical Countermeasure

Increase

\$39,999

**Chen, Weiwei**

Robert Stempel College of Public Health and Social Work

Health Policy and Management

Palm Beach County Community Services Dep

Intergovernmental Agreement for Ryan White Part A HIV Health Support Services

Initial

\$25,000

**Chung, Katherine**

Herbert Wertheim College of Medicine

Humanities Health and Society

FIU Foundation

Partnering with Communities to Drive out Breast Cancer in Miami-Dade County

Initial

\$50,000

**Chung, Katherine**

Herbert Wertheim College of Medicine

Humanities Health and Society

FIU Foundation

Strengthen and Maintain Breast Health Services

Initial

\$186,369

**Coles, Erika**

College of Arts, Sciences &amp; Education—Psychology

Miami-Dade County Public Schools

MDCPS Provision of Mental Health Services

Initial

\$24,000

**Cruz, Jose Miguel**

Steven J. Green School of International and Public Affairs

LACC

American Institutes for Research

Latin America and the Caribbean Youth Violence Prevention

Initial

\$320,813

**Dare, Emily**

College of Arts, Sciences &amp; Education

Teaching and Learning

National Science Foundation

Collaborative Research: Design and Development of a K-12 STEM Observation Protocol

Initial

\$638,230

**Dare, Emily**

College of Arts, Sciences &amp; Education

Teaching and Learning

National Science Foundation

Participant Support - Collaborative Research: Design and Development of a K-12 STEM

Initial

\$32,240

**Frankovich, Thomas**

College of Arts, Sciences & Education  
SERC

South Florida Water Management District

Microscopic Analysis of Phytoplankton Communities in St. Lucie Estuary:

Initial

\$22,950

**Fuller, Karen**

College of Communication, Architecture + The Arts  
Music

Miami-Dade County Cultural Affairs

FY 2018 - 2019 FIU Music Festival

Initial

\$50,000

**Gaiser, Evelyn**

College of Arts, Sciences & Education

Biology

South Florida Water Management District

Vegetation and periphyton monitoring in Biscayne Bay Coastal wetlands project

Increase

\$49,522

**Garber, David**

College of Engineering and Computing

Civil and Environmental Engineering

Florida Department of Transportation

Evaluation of Concrete Pile to Footing or Cap Connections

Initial

\$299,800

**Gladstone, Susan**

Academic Affairs - Jewish Museum of Florida-FIU

City of Miami Beach

FY 18-19 City of Miami Beach City Wide Grant

Initial

\$50,000

**Gladstone, Susan**

Academic Affairs - Jewish Museum of Florida-FIU

City of Miami Beach

City of Miami Beach Cultural Anchor Grant FY18/19

Initial

\$26,400

**Godavarty, Anuradha**

College of Engineering and Computing

Biomedical Engineering

University of Georgia

Differentiate healing and non-healing diabetic foot ulcers using a portable,

Initial

\$100,000

**Jin, Xia**

College of Engineering and Computing

Civil and Environmental Engineering

University of Florida

Discovering Potential Market for the Integration of Public Transportation

Supplemental

\$49,560

**Jin, Xia**

College of Engineering and Computing  
 Civil and Environmental Engineering  
 Florida Department of Transportation  
 The Impacts of Emerging Mobility Options and Vehicle Technologies on Travel Behavior  
 Initial \$187,990

**Katsenovich, Yelena**

Academic Affairs - ARC  
 Savannah River Nuclear Solutions LLC  
 Management of Hanford Low Activity Waste Off-Gas Condensate  
 Initial \$270,101

**Kavallieratos, Konstantinos**

College of Arts, Sciences & Education  
 Chemistry  
 Savannah River Nuclear Solutions LLC  
 Development of Alternative Solvent Extraction Technology for Combined Cesium  
 Initial \$300,000

**Kominoski, John**

College of Arts, Sciences & Education  
 Biology  
 Texas A&M University  
 The effects of shifting coastal wetland plant communities on the restoration of food webs  
 Increase \$14,250

**Kominoski, John**

College of Arts, Sciences & Education  
 Biology  
 Texas A&M University  
 Ecosystem Responses to Hurricanes Synthesis Workshop  
 Initial \$3,295

**Kos, Lidia**

Academic Affairs - UGS University Graduate School  
 Miami Heart Research Institute  
 Phenotypic and functional characterization of neural crest derived aortic valve interstitial cells  
 Initial \$60,000

**Kutateladze, Besiki**

Steven J. Green School of International and Public Affairs  
 Criminology and Criminal Justice  
 FIU Foundation  
 A Study of the Influence of Charging Decisions on Disproportionate Sentencing  
 Initial \$82,690

**Lagos, Leonel**

Academic Affairs - ARC  
 Savannah River Nuclear Solutions LLC  
 Dexterous Robotic Manipulator and Adaptation of Exoskeleton Devices for Assisted Glovebox Operations to  
 Reduce Human Fatigue and Injuries  
 Initial \$272,070

**Lothridge, Kevin**

College of Arts, Sciences & Education—SISH  
 Marine Corps Systems Command  
 Item No 0001AC PM & Supply Support Services  
 Increase

\$491,648

**Lothridge, Kevin**

College of Arts, Sciences & Education—SISH  
 Marine Corps Systems Command  
 Item No 0002AC Consumables and Non-Consumables  
 Increase

\$133,024

**Lothridge, Kevin**

College of Arts, Sciences & Education—SISH  
 Marine Corps Systems Command  
 Item No 0003AC Initial User Training  
 Increase

\$613,785

**Lothridge, Kevin**

College of Arts, Sciences & Education—SISH  
 Marine Corps Systems Command  
 Item No 0004AC Initial Employment Scenario Training  
 Increase

\$987,052

**Lothridge, Kevin**

College of Arts, Sciences & Education—SISH  
 Marine Corps Systems Command  
 Item No 0005 AB & AC Sustainment Training  
 Increase

\$351,689

**Lundy, Debra**

Division of Finance  
 Miami Beach Visitor & Convention Authority  
 2019 Annual South Beach Wine & Food Festival (MBVCA)  
 Initial

\$51,000

**Lundy, Debra**

Division of Finance  
 Miami-Dade County Cultural Affairs 2019 FEST South Beach Wine & Food Festival  
 Initial

\$89,104

**Malone, Sparkle**

College of Arts, Sciences & Education  
 Biology  
 University of Alabama  
 Understanding the effects of increased freshwater inputs and salt water intrusion  
 Initial

\$84,522

**McDaniel, Dwayne**

Academic Affairs - ARC  
 Savannah River Nuclear Solutions LLC  
 Development of Methods for In-line Monitoring of Yield Stress during the Transfer  
 Initial

\$204,475



**Mohammed, Osama**

College of Engineering and Computing  
Electrical and Computer Engineering

Office of Naval Research

A Cyber Physical System/Communication Framework for Resilient Real-time Control

Increase

\$83,220

**Mohammed, Osama**

College of Engineering and Computing  
Electrical and Computer Engineering

University of Arkansas

Mohammed-Y3

Supplemental

\$74,860

**Mohammed, Osama**

College of Engineering and Computing  
Electrical and Computer Engineering

University of Arkansas

Uluagac-Y3

Supplemental

\$98,548

**Mohammed, Osama**

College of Engineering and Computing  
Electrical and Computer Engineering

University of Arkansas

Akkaya-Y3

Supplemental

\$72,220

**Mozumder, Pallab**

College of Arts, Sciences & Education  
Earth and Environment

University of Miami

A Web-based Survey to Estimate the Economic Value of Improved Hurricane Forecasts

Initial

\$67,500

**Pissinou, Niki**

College of Engineering and Computing  
Computer Information Sciences

National Science Foundation

Participant support 800010469

Increase

\$286,830

**Raptis, Raphael**

College of Arts, Sciences & Education  
Chemistry

Savannah River Nuclear Solutions LLC

Development of Separations Methods to Address the Challenge of Organic Mercury

Initial

\$299,598

**Richardson, Jason**

Robert Stempel College of Public Health and Social Work Dean's Office  
Duke University

Translational Studies on the Role of Pesticides in Cognitive Aging and AD

Initial

\$113,422

**Sah, Jay**

College of Arts, Sciences &amp; Education

SERC

U.S. Army Corps of Engineers

Evaluation of Vegetation Response to Changes in Hydrologic Parameters

Increase

\$125,000

**Sarwat, Arif**

College of Engineering and Computing

Electrical and Computer Engineering

University of Arkansas

Akkaya-Y3

Supplemental

\$109,230

**Schriner, Brian**

College of Communication, Architecture + The Arts

Dean's Office

FIU Foundation

Miami Future Urban Initiative

Increase

\$185,245

**Shirley, Matthew**

College of Arts, Sciences &amp; Education

Biology

Fresno Chaffee Zoo

Ecological and Ethno-zoological Basis for Pangolin Management in Côte d'Ivoire

Initial

\$7,000

**Steadman, Casey**

Academic Affairs - The Wolfsonian

Miami-Dade County Cultural Affairs

FY 2018-2019 Major Cultural Institutions (MCI) Program - Miami Dade County

Initial

\$354,293

**Strong, Alexandra**

College of Engineering and Computing

SUCCEED

National Science Foundation

Collaborative Conference: Research on Engineering Practice: Catalyzing a Scholarly Community

Initial

\$3,035

**Thomas, Tami Lynn**

Nicole Wertheim College of Nursing and Health Sciences

Dean's Office

Health Resources &amp; Services Administration

A Program for Minority Nursing Graduate Students to Serve the Rural Underserved

Increase

\$143,704

**Tomitaka, Asahi**

Herbert Wertheim College of Medicine

Immunology and Nano Medicine

University of Miami

Imaging of HIV-infected cells within the brain using nano particle-based photo-acoustic agents

Increase

\$34,096

**Trepka, Mary Jo**

Robert Stempel College of Public Health and Social Work

Epidemiology

Minority Health and Health Disparities

Influences of patient-centered HIV care on retention and viral suppression disparities

Initial

\$278,650

**Troxler, Tiffany**

College of Arts, Sciences &amp; Education

SERC

South Florida Water Management District

Surface water-groundwater interactions in Everglades tree islands

Increase

\$112,350

**Upadhyay, Himanshu**

Academic Affairs - ARC

University of South Florida

Health Monitoring with IoT Wearable Devices using Machine Learning and Edge Computing

Initial

\$34,999

**Wdowinski, Shimon**

College of Arts, Sciences &amp; Education

Earth and Environment

NASA Goddard Space Flight Center

Cascading hazards: Understanding triggering relations between wet tropical cyclones

Increase

\$190,000

## *Funding Opportunities*

ORED has a new, improved and interactive webpage for funding opportunities. Please visit

<http://research.fiu.edu/funding/#current>.

## *Limited Submissions*

Current limited submission opportunities are available at <http://research.fiu.edu/funding/limited-submissions/>.

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