

10-1-2017

ORED Communicator - October 2017

Office of Research and Economic Development, Florida International University

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Recommended Citation

Office of Research and Economic Development, Florida International University, "ORED Communicator - October 2017" (2017).
Office of Research and Economic Development Newsletters. 49.
https://digitalcommons.fiu.edu/research_newsletter/49

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The Office of Postdoctoral Scholar Services @ FIU

FIU's strategic plan, *FIUBeyondPossible2020* (<http://stratplan.fiu.edu/docs/Strategic%20Plan.pdf>), calls for action for the University to achieve excellence in research. As part of the strategic plan, the University made a firm commitment to grow and develop the postdoctoral experience. At FIU, postdoctoral scholars are provided with opportunities to work alongside distinguished faculty who are renowned in their fields, so as to prepare for career positions in academia, industry, government, or the nonprofit sector. Postdoctoral scholars bring expertise and creativity that enriches the research environment for all members of the University community, including graduate and undergraduate students, and they are vital to the research and scholarly mission of FIU.

The postdoctoral scholar experience at FIU provides individuals who have recently completed doctoral degrees with full-time programs of advanced academic preparation and research training under the guidance of supervising faculty mentors. A postdoctoral scholar appointment is a temporary and defined period of mentored advanced training to enhance the professional skills and independence needed to pursue a chosen career path.

During the week of September 18 through September 22, the Office of Postdoctoral Scholar Services held events in recognition of National Postdoctoral Appreciation Week. Postdocs



gathered for an ice cream social, a mentoring workshop, and met with representatives from the University Graduate School and the Office of Research and Economic Development (ORED).

FIU strives to provide stimulating, constructive, and dynamic experiences for postdocs by emphasizing the mutual commitment and responsibility of the University, the faculty, the students, and the postdoctoral scholars. Our goal is for each postdoctoral scholar to have an exemplary professional and personal development experience while at FIU.



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Upcoming Events

October

- **October 2, 6:30 to 8 pm, WC 130, *Maternal and Child Health Grand Rounds—Maternal Mortality: How did California do it?*** presented by [David C. Lagrew, Jr, M.D.](#)
- **October 4, 11 am to 12 noon, WC 130, InWE Seminar Series: *Should (R)SET-MH sedimentation data be used to forecast the effects of sea level rise on wetland resilience and carbon sequestration?***
- **October 4, 6 to 8 pm, MARC 3rd floor, *Welcome to the Future*,** presented by [StartUP FIU West Kendall](#)
- **October 10, 8 am to 5 pm, TBD, *Geopolitical Summit: Islam and Muslims Today*,** presented by [Reza Aslan](#)
- **October 11, 12 to 1 pm, [Citrus Health Network](#), *Beyond Brick and Mortar: Leveraging Remote Technologies to Extend the Reach and Scope of Children's Mental Health Care*,** presented by [Jonathan Comer](#)
- **October 11, 12 to 1 pm, AHC 1 #110, *Helping your kids learn how to fail: raising a resilient child*,** presented by [Isabel Rodríguez-Duncan](#)
- **October 13, 12 to 1 pm, AHC 1 #110, *School-based Prevention of Behavioral and Mental Health Problems: Integrating and Advancing the Evidence Base*,** presented by [Catherine P. Bradshaw](#)
- **October 13, 2 to 3 pm, ECS 241, *How to make a better direct digital frequency synthesizer*,** presented by [Allan N. Willson, Jr.](#)
- **October 14, 9 am to 3 pm, MARC 3rd floor, *How to think about whether my research can be commercialized*,** presented by [StartUP FIU](#)
- **October 18, 12 to 1 pm, AHC 1 #110, *Tips on Managing Back-to-School Anxiety and Test-taking*,** presented by [Yasmin Rey](#) and [Deepika Bose](#)
- **October 19, 12 to 1 pm, AHC4 #101, *Women in Politics*,** presented by [Katy Sorenson](#)
- **October 25, 12 to 1 pm, AHC 4 #110, *How to Effectively Help your Child with their Homework*,** presented by [Brittany Merrill](#)
- **October 27, 12 to 1 pm, AHC 4 #110, *How the Specificity of Labels impacts Infant's Behavioral and Neural Development*,** presented by [Lisa S. Scott](#)
- **October 27, 2 to 3 pm, ECS 241, *Climate Change and National Security*,** presented by [Yannis Phillis](#)

November

- **November 1, 11 am to 12 noon, WC 130, InWE Seminar Series: *Carbon gains and losses under nutrient enrichment in a mangrove wetland***
- **November 8, 12 to 1 pm, AHC 1 #110, *How to support your teen in making good decisions about alcohol and other drugs*,** presented by [Nicole Schatz](#)
- **November 8, 3 to 3:50 pm, SIPA 220, *Biomolecular Sciences Institute Lecture*** by [Carlos A. Torres-Ramos](#)
- **November 17, 1:30 to 2:30 pm, GL 100A, *Biomolecular Sciences Institute Seminar*** by [Peter Lu](#)

December

- **December 1, 11 am to 12 noon, AHC3 #205, *Biomolecular Sciences Institute Seminar*** by [Susan Wallace](#)
- **December 1, 2 to 3 pm, ECS 241, *IHMC Research: National Language Processing, Cyber Security and Big Data*,** presented by [Bonnie Borr](#)
- **December 13, 12 to 1 pm, [Citrus Health Network](#), *Recent studies in dosing and sequencing pharmacological and behavioral treatments for ADHD: When They Go High, We Go Low*,** presented by [William Pelham](#)

Awards Received—August 2017

FIU researchers were awarded \$15,539,574 in August 2017. Below is a listing of awards received.

Agarwal, Arvind

College of Engineering & Computing
 Engineering Dean's Office
 Clarkson Aerospace Corp
 AFRL Collaboration Program - Materials & Manufacturing Research
 Increase

\$15,000

Agudelo, Marisela

Herbert Wertheim College of Medicine

COM Immunology

National Institutes of Health

EtOH-induced Immunomodulation: Role of Histone Deacetylases and Cannabinoid Genes

Increase

\$24,108

Ali, Hesham A

College of Engineering & Computing

Civil & Environmental Engineering

Florida Department of Transportation

Express Lane Marker Color Human Factors Study on Concrete

Supplemental

\$94,461

Alluri, Priyanka

College of Engineering & Computing

Civil & Environmental Engineering

Florida Department of Transportation

Technical and Research Support for ITS and Traffic Engineering Projects (LOA #17)

Initial

\$277,342

Attong, Nicole

Academic Affairs - Other Units

FIU Embrace

Dan Marino Foundation

The Dan Marino Foundation: Independent Living Program

Initial

\$7,163

Baralt, Melissa Lorrain

College of Arts, Sciences & Education

Center for Children and Families

Health Resources & Services Administration

Háblame bebé: Helping Hispanic families reduce the word gap and promote bilingualism

Initial

\$75,000

Bhansali, Shekhar

College of Engineering & Computing

Electrical & Computer Engineering

North Carolina State University

Advanced Self-Powered Systems of Integrated Sensor Technologies (Assist)

Continuation

\$34,000

Bhat, Mahadev

College of Arts, Sciences & Education

Earth and Environment

National Institute of Food & Agriculture

Innovative Curriculum for Agriculture Training and Career for Hispanics (iCATCH)

Continuation

\$500,000

Boesl, Benjamin

College of Engineering & Computing

Mechanical & Materials Engineering

Federal Aviation Administration

Continuation

\$33,544

Brewster, Cheryl D

Herbert Wertheim College of Medicine
 COM Humanities Health and Society
 U.S. Department of Health & Human Services
 Florida Science Training and Research (STAR) Fellowship
 Increase

\$493,377

Briceno, Henry

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

\$51,745

Casas, Alexander D

Division of Finance—University Police
 National Oceanic and Atmospheric Admin
 Guard Services for the National Hurricane Center
 Increase

\$48,387

Comer, Jonathan S

College of Arts, Sciences & Education
 Psychology
 National Institute of Mental Health
 Evaluating Innovative Treatment Formats for Difficult-to-Treat Child Populations
 Initial

\$34,543

Crowl, Todd

College of Arts, Sciences & Education
 InWE
 National Park Service
 Stabilize and Protect South Florida Archeological Sites with Integrated Ecosystem Restoration
 Increase

\$46,500

Devieux, Jessy

Robert Stempel College of Public Health & Social Work
 Health Promotion & Disease Prevention
 Brigham and Women's Hospital
 A Trial of Same-day Testing and Treatment to Improve Outcomes among
 Initial

\$18,032

Dinehart, Laura H

College of Arts, Sciences & Education
 School of Education
 South Florida After-School All Stars Inc.
 South Florida ASAS Transfer Agreement 2017-2018
 Supplemental

\$173,347

Donoso, Maria C

College of Arts, Sciences & Education
 InWE
 National Park Service
 Natural Resource Condition Assessment for Three Parks within the U.S. Virgin Islands
 Increase

\$52,700

Finlayson, Mark Alan

College of Engineering & Computing

Computer Information Sciences

Office of Naval Research

Detecting and Aligning Narrative Variants for Countering Disinformation

Initial

\$200,000

Foerch, Daniela Fenu

College of Arts, Sciences & Education

Teaching and Learning

Early Learning Coalition of Dade/Monroe

2017-2018 Quality Rating Improvement System, QRIS

Initial

\$977,450

Fourqurean, James

College of Arts, Sciences & Education

Biology

National Oceanic and Atmospheric Admin

MOU between DOC, NOAA, NOS, ONMS and FKNMS

Increase

\$1,203,843

Ortega, Francisco Javier

College of Arts, Sciences & Education

Biology

Montgomery Botanical Center

Phylogeography and Conservation Genetics of the Caribbean Zamia Clade

Increase

\$28,072

Frazier, Stacy Lynn

College of Arts, Sciences & Education

Psychology

National Institutes of Health

Self-Concept Intervention for Urban High School Students

Continuation

\$23,986

Gaiser, Evelyn

College of Arts, Sciences & Education SEAS

U.S. Army Corps of Engineers

Aquatic Fauna and Periphyton Production Data Collection

Increase

\$208,814

Gaiser, Evelyn

College of Arts, Sciences & Education

SEAS

South Florida Water Management District

Periphyton and vegetation monitoring for the adaptive management

Initial

\$49,555

Gan Chowdhury, Arindam

College of Engineering & Computing

Civil & Environmental Engineering

National Science Foundation

FIU Experimental Facility

Increase

\$1,100,000

Garber, David

College of Engineering & Computing
 Civil & Environmental Engineering
 U.S. Department of Transportation
 Performance Comparison of In-Service, Full-Depth Precast Concrete
 Increase

\$52,571

Gardinali, Piero

College of Arts, Sciences & Education
 Chemistry
 National Park Service
 Laboratory Services for Florida Bay Seawater Chemical Analysis
 Initial

\$50,000

Guo, Hai

Steven J. Green School of International & Public Affairs
 Public Administration
 Volcker Alliance Phase 2: Information from Potential University Partners
 Initial

\$77,210

Hannan, Jean Louise

Nicole Wertheim College of Nursing & Health Sciences
 Nursing Undergraduate
 University of Ottawa
 Infant Feeding among Black women living with HIV: A Community Based
 Increase

\$17,649

He, Xudong

College of Engineering & Computing
 Computer Information Sciences
 Alabama A&M University
 An Adaptive Evolutionary Computing Based Runtime Checker
 Increase

\$73,334

Hickey, Rosemary

College of Arts, Sciences & Education
 Earth and Environment
 National Science Foundation
 MRI: Acquisition of a Scanning Electron Microscope for Geoscience
 Initial

\$309,890

Hiller, Nathan J

College of Business Administration
 Management & International Business
 U.S. Secret Service
 Leadership Framework for Secret Service
 Initial

\$23,659

Ilcheva, Maria

Steven J. Green School of International & Public Affairs
 Metropolitan Center
 Citizens Independent Transportation Trust
 2017 Citizens' Independent Transportation Trust (CITT) Transportation Summit Planning
 Initial

\$52,977

<p>Jayant, Rahul Dev Herbert Wertheim College of Medicine COM Immunology National Institutes of Health Intranasal Nanodelivery of Oxytocin to Treat Morphine Addiction in HIV Patients by Gene Editing Initial</p>	\$146,500
<p>Jiang, Haiyan College of Arts, Sciences & Education Earth and Environment National Oceanic and Atmospheric Admin Estimation of Tropical Cyclone Intensity Using Satellite Passive Microwave Observations Initial</p>	\$99,599
<p>Kadko, David Academic Affairs - Other Units ARC National Science Foundation GEOTRACES Pacific Meridional Transect: Measurement of ⁷Be as a Tracer Initial</p>	\$410,338
<p>Kiszka, Jeremy College of Arts, Sciences & Education SEAS FIU Foundation Initial</p>	\$6,375
<p>Lau, Kingsley College of Engineering & Computing Civil & Environmental Engineering U.S. Department of Transportation Corrosion Durability of Reinforced Concrete Utilizing UHPC for ABC Applications Increase</p>	\$53,457
<p>Lee, Seung Jae College of Engineering & Computing Civil & Environmental Engineering U.S. Department of Transportation A Predictive Computer Program for Proactive Demolition Planning Increase</p>	\$51,830
<p>Leng, Fenfei College of Arts, Sciences & Education Chemistry National Institutes of Health Targeting transcription-coupled DNA supercoiling for discovering antibiotics Initial</p>	\$232,576
<p>Lerouge, Cynthia M College of Business Administration Information Systems & Business Analytic University of Washington Developing Design Principles to Integrate PROs Increase</p>	\$71,980

Liu, Jason Xiaowen

College of Engineering & Computing
 Computer Information Sciences
 U.S. Department of Homeland Security
 Center for Homeland Security Research and Education
 Initial

\$436,494

Liu, Jason Xiaowen

College of Engineering & Computing
 Computer Information Sciences
 U.S. Department of Homeland Security
 Participant Support
 Initial

\$763,506

Mardanpour, Pezhman

College of Engineering & Computing
 Mechanical & Materials Engineering
 U.S. Department of Transportation
 Use of Drone in ABC Construction
 Increase

\$52,608

Maziak, Wasim

Robert Stempel College of Public Health & Social Work
 Epidemiology
 National Institute on Drug Abuse
 Advancing addition research and capacity to guide tobacco control in the Eastern
 Increase

\$306,329

McDaniel, Dwayne

Academic Affairs—Other Units—ARC
 Federal Aviation Administration
 Effect of Surface Contamination on Composite Bond Integrity and Durability
 Continuation

\$41,456

McPherson, Laura Crego Miller

Nicole Wertheim College of Nursing & Health Sciences
 Physical Therapy
 Northwestern University
 Effect of Neural Constraints on Movement in Stroke
 Supplemental

\$29,106

Mebel, Alexander

College of Arts, Sciences & Education
 Chemistry
 U.S. Department of Energy
 Theoretical studies of chemical reactions related to the formation and growth
 Supplemental

\$110,000

Mehrabi, Armin Barzegar

College of Engineering & Computing
 Civil & Environmental Engineering
 U.S. Department of Transportation
 NDT Methods Applicable to Health Monitoring of ABC Closure Joints
 Increase

\$55,990

Mills, De Etta kay

College of Arts, Sciences & Education

Biology

National Institutes of Health

FIU MARC U*STAR Program-Yr4-Student

Increase

\$1,633

Montas-Hunter, Sonja S

Academic Affairs - Other Units

Student Access and Success

Florida Department of Agriculture and Co

Summer Food Summer Program food services for low income and first generation

Increase

\$4,260

Montas-Hunter, Sonja S

Academic Affairs - Other Units

Student Access and Success

Florida Education Fund

2017-2018 COE South Florida Center of Excellence at FIU

Initial

\$5,200

Mora, Francisco

Steven J. Green School of International & Public Affairs

Latin American and Caribbean Center

U.S. Department of Education

LACC National Resource Centers (NRC) and FLAS Fellowships Programs

Increase

\$225,000

Olson, Richard

Steven J. Green School of International & Public Affairs

Politics & International Relations

Florida Division of Emergency Management

FIU Hurricane Loss Reduction for Housing in Florida

Initial

\$700,000

O'Shea, Kevin

College of Arts, Sciences & Education

Chemistry

National Science Foundation

Fundamental Adsorption and Photochemical Studies for the Engineering

Initial

\$258,377

Papastamatiou, Yannis Peter

College of Arts, Sciences & Education

Biology

Earthwatch Institute

Shark and ray conservation in Belize

Initial

\$13,685

Pelham Jr, William E

College of Arts, Sciences & Education—Psychology

National Institute on Drug Abuse

Mechanisms of Response to Substance Use Prevention Intervention for Adolescents with ADHD

Increase

\$152,545

Pelham Jr, William E

College of Arts, Sciences & Education—Psychology

National Institute on Drug Abuse

Mechanisms of Response to Substance Use Prevention Intervention for Adolescents with ADHD

Continuation

\$536,678

Potvin, Geoffrey Douglas

College of Arts, Sciences & Education—Physics

American Physical Society

APS Bridge Program Postdoctoral Researcher

Continuation

\$30,000

Quardokus Fisher, Kathleen Marie

College of Arts, Sciences & Education

Earth and Environment

Oregon State University

Enhancing STEM Education at Oregon State University (ESTEME@OSU)

Initial

\$17,542

Rehage, Jennifer

College of Arts, Sciences & Education

Earth and Environment

National Park Service

Effects of the 30-yr Crocodile Sanctuary closure & opening of Joe Bay

Increase

\$82,219

Rishe, Naphtali

College of Engineering & Computing

Computer Information Sciences

National Science Foundation

I/UCRC Phase II: Center for Advanced Knowledge Enablement

Increase

\$71,750

Rodriguez-Lanetty, Mauricio

College of Arts, Sciences & Education

Biology

National Science Foundation

CAREER: Exploring Immunological Priming in a Basal Metazoan (Anthozoan)

Initial

\$80,000

Rodriguez-Lanetty, Mauricio

College of Arts, Sciences & Education

Biology

Oregon State University

EDGE: Functional-Genomics Tools for Cnidarian-Dinoflagellate Symbiosis

Initial

\$502,014

Rose, Suzanna M

Academic Affairs - Other Units

Office to Advance Women, Equity, and Diversity

Children's Trust

Triple P

Initial

\$39,200

Rose, Suzanna M

Academic Affairs - Other Units
Office to Advance Women, Equity, and Diversity
Children's Trust
PAT4YOU
Initial

\$58,447

Ross, Monique Serena Lara

College of Engineering & Computing
Computer Information Sciences
National Science Foundation
Understanding the implications of gamification on women computer science students
Initial

\$300,000

Sah, Jay P

College of Arts, Sciences & Education SERC
National Park Service
Vegetation monitoring within the habitat of Cape Sable seaside sparrow
Increase

\$100,000

Sarwat, Arif Islam

College of Engineering & Computing
Electrical & Computer Engineering
National Science Foundation
EAGER: SSDIM: Simulated and Synthetic Data for Interdependent
Initial

\$200,000

Schatz, Nicole

College of Arts, Sciences & Education
Psychology
University at Buffalo SUNY
A meta-analysis of social and behavioral outcomes for ADHD in school settings
Continuation

\$99,654

Schriner, Brian D

College of Communication, Architecture + The Arts
CARTA Dean's Office
FIU Foundation
Miami Future Urban Initiative
Initial

\$291,000

Sibley, Margaret

Herbert Wertheim College of Medicine
Psychiatry and Behavior Health
National Institute of Mental Health
Effectiveness of MI Enhanced Behavior Therapy for Adolescents with ADHD
Continuation

\$45,033

Smith, Geoffrey S

College of Engineering & Computing
Computer Information Sciences
National Science Foundation
EAGER: Collaborative: Quantifying Information Leakage in Searchable Encryption
Initial

\$75,000

Stallworth, Nicolette Annette

Nicole Wertheim College of Nursing & Health Sciences
Athletic Training
National Athletic Trainers' Association
Initial

\$2,625

Traynor, Mark Patrick

Chaplin School of Hospitality & Tourism Management
Hospitality & Tourism Management
U.S. Department of Agriculture
2017-2018 Cochran Fellowship Program
Initial

\$21,200

Trexler, Joel

College of Arts, Sciences & Education
Biology
U.S. Army Corps of Engineers
Aquatic Fauna and Periphyton Production Data Collection
Increase

\$229,377

Trexler, Joel

College of Arts, Sciences & Education
Biology
National Park Service
Analyzing the Impact of Changing Hydrologic Conditions along
Increase

\$211,520

Trexler, Joel

College of Arts, Sciences & Education
Biology
National Park Service
Freshwater fish monitoring in Water Conservation Area 3 and Everglades National Park
Continuation

\$665,407

Troxler, Tiffany

College of Arts, Sciences & Education
SERC
National Park Service
Ecological Assessment of Florida Bay and adjacent Mangrove Wetlands
Increase

\$177,833

Troxler, Tiffany

College of Arts, Sciences & Education
SERC
National Park Service
Direct Measurement of Net Ecosystem Exchange (NEE) in Coastal Mangroves of Everglades National Park
Initial

\$84,876

Volakis, John

College of Engineering & Computing
Engineering Dean's Office
Ohio State University
Ultra-Wideband and Secure Multiuser Communication System with Reduced Hardware
Initial

\$544,000

Volakis, John

College of Engineering & Computing

Engineering Dean's Office

National Science Foundation

A New Class of Millimeter-wave Phased Array for Secure High Data Rate

Initial

\$67,389

Zhong, Yu

College of Engineering & Computing

Mechanical & Materials Engineering

U.S. Department of Energy

The Novel Hybrid Start-Off Model of High Performance Structural Alloys Design

Initial

\$169,705

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/>.

Contact ORED Senior Leadership

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