

FLORIDA INTERNATIONAL UNIVERSITY DIVISION OF RESEARCH
OFFICE OF SPONSORED RESEARCH
AUGUST AWARDS OVERVIEW

Florida International University researchers were awarded **\$11,319,594** in August 2009. Listed below is a summary of awards received for \$20,000 or more during the month of August.

PI: Steven Oberbauer
Biological Sciences
AWARDING SPONSOR: National Science Foundation
TITLE: *Collaborative Research: Arctic Observing Networks: Sustaining and Amplifying the ITEX AON through Automation and Increased Interdisciplinary Of Observations* **AWARD:** \$ 1,200,070

PI: Berrin Tansel
Engineering Dean's Office
AWARDING SPONSOR: Department of Education
TITLE: *GEAR UP South Dade Empowerment Zone* **AWARD:** \$ 1,177,600

PI: Ping Zhu
Earth Sciences
AWARDING SPONSOR: National Science Foundation
TITLE: *CAREER: Investigation and Parameterization of Hurricane Boundary Layer Processes for Improving Hurricane Forecast and Mitigation* **AWARD:** \$ 751,041

PI: Eric F. Wagner
Community Based Intervention Research Group
AWARDING SPONSOR: National Institute on Drug Abuse
TITLE: *Brief Intervention for Marijuana use among Latino Youth* **AWARD:** \$ 648,737

PI: Madhavan Nair
Medicine Dean's Office
AWARDING SPONSOR: National Institute on Drug Abuse
TITLE: *Polydrug Nanocarrier to Treat Opiate Addiction and HIV Disease* **AWARD:** \$ 549,593

PI: Marianna Baum
Dietetics and Nutrition
AWARDING SPONSOR: National Institute on Drug Abuse
TITLE: *HIV and HIV/HCV-Infection, Disease Progression, Oxidatives Stress & Antioxidants* **AWARD:** \$ 548,089

PI: Bruce McCord
Chemistry
AWARDING SPONSOR: Department of Homeland Security
TITLE: *Detection of Ammonium Nitrate (AN) and Urea Nitrate on Surfaces* **AWARD:** \$ 354,788

PI: Tao Li School of Computing and Information Sciences AWARDING SPONSOR: National Science Foundation TITLE: <i>Functional Prediction from Protein-Protein Interaction Data</i>	AWARD: \$ 322,632
PI: Kalai Mathee Medicine Dean's Office AWARDING SPONSOR: National Institute of General Medical Sciences TITLE: <i>Regulation of P. Aeruginosa PoxB Oxacillinase by AmpR and a Two-Component System</i>	AWARD: \$ 311,000
PI: Rene Herrera Human and Molecular Genetics AWARDING SPONSOR: National Institutes of Health TITLE: <i>Tissue Specific and Developmental Expression of snRNA Variants in the Silk Moth</i>	AWARD: \$ 261,618
PI: Sharon Pontious School of Nursing AWARDING SPONSOR: Health Resources and Services Administration TITLE: <i>Post-Master's Certificate in Nursing Education</i>	AWARD: \$ 258,393
PI: Seyed Masoud Sadjadi School of Computing and Information Sciences AWARDING SPONSOR: National Science Foundation TITLE: <i>PIRE: A Global Living Laboratory for Cyberinfrastructure Application Enablement</i>	AWARD: \$ 254,679
PI: E. George Simms Student Affairs AWARDING SPONSOR: Department of Education TITLE: <i>Upward Bound Math Science</i>	AWARD: \$ 249,963
PI: Gilbert Ramirez School of Social Work AWARDING SPONSOR: Health Resources and Services Administration TITLE: <i>Subproject: Scholarship for Disadvantaged Students in Medicine, Nursing And Public Health</i>	AWARD: \$ 237,557
PI: E. George Simms Student Affairs AWARDING SPONSOR: Department of Education TITLE: <i>Educational Talent Search</i>	AWARD: \$ 226,600

PI: Yi Deng School of Computing and Information Sciences AWARDING SPONSOR: National Science Foundation TITLE: <i>Subproject: PIRE: A Global Living Laboratory for Cyberinfrastructure Application Enablement</i>	AWARD: \$ 219,744
PI: Diana Martinez Valle-Riestra Educational and Psychological Studies Department AWARDING SPONSOR: Office of Special Education Programs TITLE: <i>Project Natural Beginnings: Personnel Preparation for Early Childhood Special Educators</i>	AWARD: \$ 196,965
PI: Kathryn Anderson School of Nursing AWARDING SPONSOR: National Center on Minority Health and Health Disparities TITLE: <i>Training in Chronic Illness Research in Florida and Europe</i>	AWARD: \$ 171,560
PI: Gilbert Ramirez School of Social Work AWARDING SPONSOR: Health Resources and Services Administration TITLE: <i>Subproject: Scholarship for Disadvantaged Students in Medicine, Nursing And Public Health</i>	AWARD: \$ 161,359
PI: Arindam Gan Chowdhury Civil and Environmental Engineering AWARDING SPONSOR: National Science Foundation TITLE: <i>Large-Scale Simulation of Wind Effects on Low-Rise Buildings to Reduce Wind-Induced Losses</i>	AWARD: \$ 150,000
PI: Tao Li School of Computing and Information Sciences AWARDING SPONSOR: National Science Foundation TITLE: <i>Collaborative Research: Nonnegative Matrix Factorization for Data Mining</i>	AWARD: \$ 149,981
PI: Maria-Jose Miguez Stempel School of Public Health AWARDING SPONSOR: National Institute on Alcohol Abuse and Alcoholism TITLE: <i>Gender Differences in an Alcohol/HIV Intervention</i>	AWARD: \$ 144,000
PI: Sharon Pontious School of Nursing AWARDING SPONSOR: Health Resources and Services Administration TITLE: <i>FIU CNHS Nurse Faculty Loan Program</i>	AWARD: \$ 143,208
PI: Paul Stuart School of Social Work AWARDING SPONSOR: Florida Atlantic University TITLE: <i>Subproject: Title IV-E Child Welfare Education Program</i>	AWARD: \$ 137,830

<p>PI: Xudong He School of Computing and Information Sciences AWARDING SPONSOR: Department of Education TITLE: <i>GAANN Fellowships in Computer Science at Florida International University</i></p>	AWARD: \$ 130,656
<p>PI: Helen Cornely Department of Physical Therapy AWARDING SPONSOR: Health Resources and Services Administration TITLE: <i>Subproject: Scholarship for Disadvantaged Students in Medicine, Nursing and Public Health</i></p>	AWARD: \$ 116,537
<p>PI: Jai Parkash Stempel School of Public Health AWARDING SPONSOR: National Institute of General Medical Sciences TITLE: <i>Cytokines Dysregulate Intracellular Calcium and cause Beta-Cell Death In Diabetes</i></p>	AWARD: \$ 108,000
<p>PI: Irma Becerra-Fernandez Decision Sciences and Information Systems AWARDING SPONSOR: National Science Foundation TITLE: <i>Collaborative Research: II – NEW: Ensayo- A Virtual Emergency Operations Center (VEOC)</i></p>	AWARD: \$ 107,977
<p>PI: Thomas Leness Mathematics AWARDING SPONSOR: National Science Foundation TITLE: <i>Gauge Theory, Gluing Theorems and their Applications</i></p>	AWARD: \$ 102,629
<p>PI: Chunlei Wang Mechanical and Materials Engineering AWARDING SPONSOR: National Science Foundation TITLE: <i>Subproject: IRES: U.S. – Japan Collaborative Research and Education on Carbon Based BioMEMS</i></p>	AWARD: \$ 102,000
<p>PI: Charles Bigger Biological Sciences AWARDING SPONSOR: National Institute of General Medical Sciences TITLE: <i>Subproject: MBRS Research Initiative for Scientific Enhancement</i></p>	AWARD: \$ 100,506
<p>PI: Berrin Tansel Center for Diversity in Engineering and Computing AWARDING SPONSOR: The Children’s Trust TITLE: <i>FIU-ENLACE Miami/The Children’s Trust</i></p>	AWARD: \$ 88,084

<p>PI: Marianna Baum Dietetics and Nutrition AWARDING SPONSOR: National Institute of Drug Abuse TITLE: <i>Subproject: HIV and HIV/HCV – Infection, Disease Progression, Oxidatives Stress & Antioxidants</i></p>	<p>AWARD: \$ 82,533</p>
<p>PI: Raju Rangaswami School of Computing and Information Sciences AWARDING SPONSOR: National Science Foundation TITLE: <i>CAREER: Active Block Layer Extension: A Foundation for Building Self-Managing Storage Systems</i></p>	<p>AWARD: \$ 80,000</p>
<p>PI: Amy Paul-Ward Occupational Therapy AWARDING SPONSOR: Health Resources and Services Administration TITLE: <i>Subproject: Scholarship for Disadvantaged Students in Medicine, Nursing and Public Health</i></p>	<p>AWARD: \$ 77,318</p>
<p>PI: Werner Boeglin Physics AWARDING SPONSOR: Department of Energy TITLE: <i>A Fast Fusion Proton Diagnostic for NSTX</i></p>	<p>AWARD: \$ 72,064</p>
<p>PI: Fatma Huffman Dietetics and Nutrition AWARDING SPONSOR: National Institutes of Health TITLE: <i>CVD Risk in Minority Populations with and without Type 2 Diabetes: Haitian & Black</i></p>	<p>AWARD: \$ 71,999</p>
<p>PI: Wong Bong Choi Mechanical and Materials Engineering AWARDING SPONSOR: Samsung Advanced Institute of Technology TITLE: <i>Development of Hysteresis-Free, High-Performance Carbon Nanotube FET</i></p>	<p>AWARD: \$ 70,000</p>
<p>PI: Laird Kramer Physics AWARDING SPONSOR: American Physics Society TITLE: <i>Subproject: FIU PhysTEC Primary Partner Institution Proposal</i></p>	<p>AWARD: \$ 68,573</p>
<p>PI: Albert Gan Civil and Environmental Engineering AWARDING SPONSOR: Florida Department of Transportation TITLE: <i>Enhancing CRASH to Support New HSIP Reporting Requirements (Phase II)</i></p>	<p>AWARD: \$ 60,000</p>

<p>PI: Gary Rand Southeast Environmental Research Center AWARDING SPONSOR: National Oceanic & Atmospheric Administration TITLE: <i>Ecotoxicology Studies of Trophic Web Species and Potential Harmful Materials in the St. Lucie Estuarine System</i></p>	<p>AWARD: \$ 57,481</p>
<p>PI: Evelyn Gaiser Southeast Environmental Research Center AWARDING SPONSOR: National Science Foundation TITLE: <i>FCE LTER II: Coastal Oligotrophic Ecosystems Research</i></p>	<p>AWARD: \$ 56,497</p>
<p>PI: Yong Cai Southeast Environmental Research Center AWARDING SPONSOR: Department of Energy TITLE: <i>Subproject: ARC FY 06 Project 1.0</i></p>	<p>AWARD: \$ 53,690</p>
<p>PI: Gary Rand Southeast Environmental Research Center AWARDING SPONSOR: Miami-Dade County Water and Sewer Department TITLE: <i>Task Order #1: Effects & Risks of Wastewaters on Aquatic Organisms</i></p>	<p>AWARD: \$ 51,365</p>
<p>PI: Sharon Pontious School of Nursing AWARDING SPONSOR: Health Resources and Services Administration TITLE: <i>Subproject: Scholarship for Disadvantaged Students in Medicine, Nursing & Public Health</i></p>	<p>AWARD: \$ 50,856</p>
<p>PI: Naphtali Rische School of Computing and Information Sciences AWARDING SPONSOR: National Science Foundation TITLE: <i>TIE: UF-FIU Inter-I/UCRC Collaboration to Explore Autonomous Computing for the TerraFly Server System</i></p>	<p>AWARD: \$ 50,000</p>
<p>PI: Fabian Cevallos Civil and Environmental Engineering AWARDING SPONSOR: Miami-Dade County Public Works Department TITLE: <i>Miami-Dade County Most Dangerous Locations for Elderly Pedestrians</i></p>	<p>AWARD: \$ 50,000</p>
<p>PI: Douglas Robertson Undergraduate Studies AWARDING SPONSOR: Institute for Higher Education Policy TITLE: <i>FIU Wal-Mart Student Success Initiative Grant</i></p>	<p>AWARD: \$ 50,000</p>

<p>PI: Evelyn Gaiser Southeast Environmental Research Center AWARDING SPONSOR: National Science Foundation TITLE: <i>REU Supplement: FCE LTER II: Coastal Oligotrophic Ecosystems Research</i></p>	<p>AWARD: \$ 49,998</p>
<p>PI: Chunlei Wang Mechanical and Materials Engineering AWARDING SPONSOR: National Science Foundation TITLE: <i>IRES: U.S. – Japan Collaborative Research and Education on Carbon Based BioMEMS</i></p>	<p>AWARD: \$ 48,000</p>
<p>PI: Ophelia Weeks Biological Sciences AWARDING SPONSOR: National Institute of General Medical Sciences TITLE: <i>Subproject: Florida International University MARC U*STAR Program</i></p>	<p>AWARD: \$ 47,779</p>
<p>PI: Maria Ilcheva Metropolitan Center AWARDING SPONSOR: Miami-Dade County Aviation Department TITLE: <i>Quality Assurance Shops for MIA</i></p>	<p>AWARD: \$ 46,750</p>
<p>PI: Noma Anderson Communication Sciences and Disorders AWARDING SPONSOR: Health Resources and Services Administration TITLE: <i>Subproject: Scholarship for Disadvantaged Students in Medicine, Nursing and Public Health</i></p>	<p>AWARD: \$ 44,822</p>
<p>PI: Berrin Tansel Civil and Environmental Engineering AWARDING SPONSOR: Hinkley Center for Solid and Hazardous Waste Management TITLE: <i>Closed Landfills as Power Parks: Technical and Economic Feasibility of Solar Harvesting at Florida’s Closed Landfills</i></p>	<p>AWARD: \$ 40,000</p>
<p>PI: Dwayne McDaniel Applied Research Center AWARDING SPONSOR: The Federal Aviation Administration TITLE: <i>Composite Surface Contamination Study</i></p>	<p>AWARD: \$ 34,000</p>
<p>PI: Laird Kramer Physics AWARDING SPONSOR: American Physics Society TITLE: <i>FIU PhysTEC Primary Partner Institution Proposal</i></p>	<p>AWARD: \$ 31,353</p>
<p>PI: Alexander AgoulNIK Medicine Dean’s Office AWARDING SPONSOR: National Institutes of Health TITLE: <i>Small Molecule Agonists of the Relaxin Receptor</i></p>	<p>AWARD: \$ 25,000</p>

PI: Ellen Brown School of Nursing AWARDING SPONSOR: Cornell University TITLE: <i>Effectiveness of a Depression Care Management Initiative in Home Healthcare</i>	AWARD: \$ 23,486
PI: Surendra Saxena Mechanical and Materials Engineering AWARDING SPONSOR: Carnegie Institution of Washington TITLE: <i>High Pressure Geophysics & Materials – CDAC Year 7</i>	AWARD: \$ 22,450
PI: Michele Ciccazzo School of Social Work AWARDING SPONSOR: Health Resources and Services Administration TITLE: <i>Scholarships for Disadvantaged Students: Social Work Graduate 9/10</i>	AWARD: \$ 20,824