

August 22, 2017

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of July, 2017.

Total amount awarded for the month of July was \$3,911,529

Fiscal Year To Date Total: \$3,911,529

| <b>Award Title</b>   | <b>Amount</b> | <b>Investigators</b>  | <b>PI Dept.</b>                                      | <b>Sponsors</b>   |
|--|---------------|---|--|---|
| <b>Acadia Parkinson's Disease Medicare 5%</b>  | \$6,000       | <b>Principal Investigator (PI):</b><br>Blanchette, Christopher  | Deans Office<br>College of Health and Human Services | <b>Sponsor:</b><br>Parexel International  |
| <b>Antibody Fragment Stability: A Focus on Domain-Domain Interactions</b>  | \$12,832      | <b>Principal Investigator (PI):</b><br>Jacobs, Donald<br><b>Co-PI:</b><br>Ettayapuram Ramaprasad, Azhagiya Singam | Physics and Optical Science                          | <b>Sponsor:</b><br>MedImmune, Inc.  |
| <b>Area Acoustic and Electromagnetic Emissions Monitoring - Phase 2</b>  | \$57,084      | <b>Principal Investigator (PI):</b><br>Browne, Aidan  | Engineering Technology and Construction Management   | <b>Sponsor:</b><br>Electric Power Research Institute (EPRI)   |
| <b>Basic Ordering Agreement: Securing American Manufacturing (SAM)</b>   | \$50,047      | <b>Principal Investigator (PI):</b><br>Browne, Aidan<br><b>Co-PI:</b><br>Williams, Wesley                         | Engineering Technology and Construction Management   | <b>Sponsor:</b><br>Consolidated Nuclear Security , LLC (CNS)<br><b>Prime Sponsor:</b><br>Department of Energy (DOE)     |
| <b>Building Effective Communication and Presentation Skills</b>  | \$6,675       | <b>Principal Investigator (PI):</b><br>Wartham, Amy   | Extended Academic Programs                           | <b>Sponsor:</b><br>US Department of Agriculture (USDA)  |
| <b>Calcium: magnesium balance, microbiota, and necroptosis and inflammation</b>  | \$135,900     | <b>Principal Investigator (PI):</b><br>Fodor, Anthony<br><b>Co-PI:</b><br>Winglee, Kathryn                        | Bioinformatics Research Center                       | <b>Sponsor:</b><br>Vanderbilt University Medical Center<br><b>Prime Sponsor:</b><br>National Institutes of Health (NIH) |
| <b>Collaborative Research: I/UCRC for Robots and Sensors for the Human Well-being</b>  | \$65,000      | <b>Principal Investigator (PI):</b><br>Xiao, Jing<br><b>Co-PI:</b><br>Akella, Srinivas                            | Computer Science                                     | <b>Sponsor:</b><br>National Science Foundation (NSF)  |
| <b>Collaborative Research: ABI Innovation: Towards Computational Exploration of Large-Scale Neuro-Morphological Datasets</b> | \$387,057     | <b>Principal Investigator (PI):</b><br>Zhang, Shaoting  | Computer Science                                     | <b>Sponsor:</b><br>National Science Foundation (NSF)  |

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| <b>Collaborative Research: An Economic Iterative Learning Control Framework with Application to Airborne Wind Energy Harvesting</b>     | \$245,625     | <b>Principal Investigator (PI):</b><br>Vermillion, Christopher  | Mechanical Engineering and Engineering Science | <b>Sponsor:</b><br>National Science Foundation (NSF)                                      |
| <b>Collaborative Research: Retaining and Engaging CS majors By Solving and Visualizing Algorithmic Problems on Real-world Data Sets</b> | \$541,616     | <b>Principal Investigator (PI):</b><br>Subramanian, Kalpathi<br><b>Co-PI:</b><br>Saule, Erik              | Computer Science                               | <b>Sponsor:</b><br>National Science Foundation (NSF)                                      |
| <b>Collaborative Research: Spatial skills and success in introductory computing</b>   | \$44,997      | <b>Principal Investigator (PI):</b><br>Dorodchi, Mohsen   | Computer Science                               | <b>Sponsor:</b><br>National Science Foundation (NSF)                                      |
| <b>Diagnosing Thunderstorm-induced Power Outages</b>  | \$86,258      | <b>Principal Investigator (PI):</b><br>Eastin, Matthew  | Geography and Earth Sciences                   | <b>Sponsor:</b><br>Duke Energy Corporation  |
| <b>Gaston County Government Public Service Fellowship</b>   | \$26,564      | <b>Principal Investigator (PI):</b><br>Barth, Thomas  | Political Science and Public Administration    | <b>Sponsor:</b><br>Gaston County  |
| <b>Girls in IT summer camp</b>  | \$2,300       | <b>Principal Investigator (PI):</b><br>Cao, Lijuan<br><b>Co-PI:</b><br>Rorrer, Audrey                     | Software and Information Systems               | <b>Sponsor:</b><br>National Center for Women and Information Technology (NCWIT)           |
| <b>Increasing the Capacity of Early Childhood Education Programs to Use Data to Improve Implementation and Evaluation</b>               | \$200,000     | <b>Principal Investigator (PI):</b><br>Cook, James<br><b>Co-PIs:</b><br>Armstrong, Laura;<br>Kilmer, Ryan | Psychology                                     | <b>Sponsor:</b><br>Department of Education (DOED) Institute of Education Sciences (IES)   |
| <b>Investigation of non-contact Profile measurement</b>   | \$62,567      | <b>Principal Investigator (PI):</b><br>Morse, Edward  | Mechanical Engineering and Engineering Science | <b>Sponsor:</b><br>Honeywell, Inc.<br><b>Prime Sponsor:</b><br>Department of Energy (DOE) |
| <b>Marshall Research Phase IV</b>   | \$122,883     | <b>Principal Investigator (PI):</b><br>Kamalasadan, Sukumar   | Electrical and Computer Engineering            | <b>Sponsor:</b><br>Duke Energy Corporation  |
| <b>Mecklenburg County Senior Citizen Health Risk Assessment Testing Outreach Program</b>  | \$184,603     | <b>Principal Investigator (PI):</b><br>Moore-Harrison, Trudy  | Kinesiology                                    | <b>Sponsor:</b><br>Sharon Towers Retirement Community                                     |

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| <b>Mental Illness Stigma: Relationship processes and mental health outcomes in college students</b>                                | \$52,406      | <b>Principal Investigator (PI):</b><br>Canevello, Amy   | Psychology                                  | <b>Sponsor:</b><br>University of Connecticut<br><b>Prime Sponsor:</b><br>NIH National Institute of Child Health and Human Development (NICHD)              |
| <b>MPA Public Service Fellowship in City of Charlotte City Manager's Office</b>  | \$26,399      | <b>Principal Investigator (PI):</b><br>Barth, Thomas  | Political Science and Public Administration | <b>Sponsor:</b><br>City of Charlotte   |
| <b>Multiscale methods for crystalline nanomaterials</b>  | \$132,278     | <b>Principal Investigator (PI):</b><br>Li, Xingjie  | Mathematics and Statistics                  | <b>Sponsor:</b><br>National Science Foundation (NSF)   |
| <b>National Science Foundation Graduate Research Fellowship Program</b>  | \$209,833     | <b>Principal Investigator (PI):</b><br>Reynolds, Thomas   | Graduate School                             | <b>Sponsor:</b><br>National Science Foundation (NSF)   |
| <b>NC Space Grant Affiliate Program - NASA Funding GY2015 (Year 1 of 3)</b>  | \$2,500       | <b>Principal Investigator (PI):</b><br>Conrad, James  | Electrical and Computer Engineering         | <b>Sponsor:</b><br>North Carolina Space Grant Consortium (NC Space Grant)<br><b>Prime Sponsor:</b><br>National Aeronautics and Space Administration (NASA) |
| <b>NeTS: Small: Collaborative Research: Hierarchical Framework with Distributed Resource Allocation for Mobile Fog Computing</b>   | \$250,000     | <b>Principal Investigator (PI):</b><br>Xie, Jiang   | Electrical and Computer Engineering         | <b>Sponsor:</b><br>National Science Foundation (NSF)   |
| <b>Nursing Clinical Site Development Proposal</b>  | \$10,000      | <b>Principal Investigator (PI):</b><br>Evans, Dena<br><b>Co-PI:</b><br>Toth, Cynthia  | School of Nursing                           | <b>Sponsor:</b><br>North Carolina Area Health Education Center (NC AHEC) Program   |
| <b>Path Integral Monte Carlo Methods for Computing Polarizability Tensors of Nanomaterials and Electrical Impedance Tomography</b> | \$182,516     | <b>Principal Investigator (PI):</b><br>Cai, Wei   | Mathematics and Statistics                  | <b>Sponsor:</b><br>National Science Foundation (NSF)   |
| <b>Project SEED 2017</b>   | \$13,250      | <b>Principal Investigator (PI):</b><br>Schmedake, Thomas<br><b>Co-PIs:</b><br>Rabinovich, Daniel;<br>Horger, Jacob;<br>Afonin, Kirill;<br>Walter, Michael | Chemistry                                   | <b>Sponsor:</b><br>American Chemical Society (ACS)   |

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|---|---------------|---|-------------------------------------|---|
| <b>Shaping the Message: African American Youth and their Families Use Media to Promote Violence-Free Dating Relationships</b> | \$29,661      | <b>Principal Investigator (PI):</b><br>Kulkarni, Shanti   | School of Social Work               | <b>Sponsor:</b><br>National Institutes of Health (NIH) National Institute of Child Health and Human Development (NICHD) |
| <b>SpecEES: Intelligent Energy Efficient Spectrum Access for Wireless IoT</b>   | \$600,000     | <b>Principal Investigator (PI):</b><br>Xie, Jiang<br><b>Co-PIs:</b><br>Han, Tao; Weldon, Thomas | Electrical and Computer Engineering | <b>Sponsor:</b><br>National Science Foundation (NSF)  |
| <b>Status Cues, Status Biases, and Interaction</b>  | \$132,185     | <b>Principal Investigator (PI):</b><br>Webster, Murray<br><b>Co-PI:</b><br>Walker, Lisa         | Sociology                           | <b>Sponsor:</b><br>National Science Foundation (NSF)  |
| <b>Vocal Accommodation Within Nonverbal Frequencies as a Marker of Status, Dominance, and Prestige</b>                        | \$25,000      | <b>Principal Investigator (PI):</b><br>Dippong, Joseph  | Sociology                           | <b>Sponsor:</b><br>Department of Defense (DOD) Department of the Army (DA) Army Research Office (ARO)                   |
| <b>Web GIS-enabled Data Management Systems for Santee Experimental Forest</b>   | \$7,493       | <b>Principal Investigator (PI):</b><br>Tang, Wenwu  | Geography and Earth Sciences        | <b>Sponsor:</b><br>US Department of Agriculture (USDA) Forest Service Southern Research Station                         |