

## University of South Carolina - January 2023 New Grant Awards Report

| PI's College                              | PI's Department                                 | PI Name                   | Award Title  | Sponsoring Agency  | Award Total  |
|---|---|---------------------------|--|--|--------------|
| <b>Arnold School of Public Health</b>     |   |                           |  |  |              |
|   | <i>Applied Research &amp; Evaluation (CARE)</i> |                           |  |  |              |
|   |   | <i>Workman, Lauren</i>    | <i>SC Institute of Medicine and Public Health Evaluation Planning</i>  | SC Institute of Medicine and Public Health (IMPH)                              | \$ 15,000    |
|   | <i>Center for Community Health Alignment</i>    |                           |  |  |              |
|   |   | <i>Young, Michael</i>     | <i>Johnson and Johnson ORTHE CCHA 2023</i>   | SC Research Foundation (SCRF)/Johnson & Johnson Services, Inc.                 | \$ 233,000   |
|   | <i>Health Prom., Educ. &amp; Behavior</i>       |                           |  |  |              |
|   |   | <i>Blake, Christine</i>   | <i>Project: Transforming Agrifood Systems in South Asia (TAFSSA), 204020.001.400</i>   | International Food Policy Research Institute (IFPRI)                           | \$ 52,207    |
|   |   | <i>Frongillo, Edward</i>  | <i>Redesigning GMPs to improve nutrition, health, and development of children</i>  | International Food Policy Research Institute/Bill and Melinda Gates Foundation | \$ 209,329   |
|   | <i>Health Services Policy &amp; Mgmt</i>        |                           |  |  |              |
|   |   | <i>Wright, Brad</i>       |  |  |              |
|   |   |                           | <i>The Role of Health Centers in Reducing Disparities in Potentially-Preventable Hospital-Based Care among Dual Eligibles</i>                  | University of North Carolina - Chapel Hill/NIMHD/NIH                           | \$ 38,113    |
|   |   |                           | <i>Using Medicare Claims to Advance Our Understanding of Guillain-Barre Syndrome</i>   | UNC-Chapel Hill/NINDS/NIH  | \$ 39,600    |
| <b>College of Arts and Sciences</b>       |   |                           |  |  |              |
|   | <i>Archaeology &amp; Anthropology</i>           |                           |  |  |              |
|   |   | <i>DePratter, Chester</i> | <i>Artifact Analysis and Curation Services - MCRD Parris Island Museum - RFQ M3200022Q0034</i>   | Marine Corps Recruit Depot, Parris Island, SC/DOD                              | \$ 99,540    |
|   |   | <i>King, Adam</i>         | <i>Archaeological Testing at Spanish Mount</i>   | SC Department of Natural Resources - Heritage Trust Program                    | \$ 8,500     |
|   | <i>Baruch Institute</i>                         |                           |  |  |              |
|   |   | <i>Morris, James</i>      | <i>"Coastal Resilience: Evaluating Risk of Tidal Marsh Inundation and Monetizing Services to Prioritize Management Actions (Part 2)"</i>       | UNC Wilmington/NOAA  | \$ 39,283    |
|   | <i>Chemistry &amp; Biochemistry</i>             |                           |  |  |              |
|   |   | <i>Li, Jie</i>            | <i>CAREER: Enzymatic sulfur incorporation and modification in the biosynthesis of natural products</i>   | National Science Foundation (NSF)  | \$ 865,975   |
|   | <i>English</i>                                  |                           |  |  |              |
|   |   | <i>Crocker, Holly</i>     | <i>Civic Engagement, Voting Rights, and the Founding Documents at the University of South Carolina</i>   | Andrew W. Mellon Foundation  | \$ 500,000   |
|   | <i>Physics &amp; Astronomy</i>                  |                           |  |  |              |
|   |   | <i>Kulkarni, Varsha</i>   | <i>Probing Silicate and Carbonaceous Dust and Ice in Distant Galaxies with Mid-IR Spectroscopy of Quasars with Foreground 2175 A Absorbers</i> | NASA / Space Telescope Science Institute (James Webb Space Telescope)          | \$ 167,376   |
|   | <i>Psychology</i>                               |                           |  |  |              |
|   |   | <i>Coffman, Donna</i>     | <i>Developing Methodology to examine causal mediation of Time-Varying Effects in Smoking Cessation Treatments</i>                              | National Cancer Institute (NCI)/NIH  | \$ 144,610   |
|   |   | <i>Edmunds, Sarah</i>     | <i>Improving the Part C Early Intervention Service Delivery System for Children with ASD: A Randomized Clinical Trial ("RISE")</i>             | Chan Med School Worcester - University of Massachusetts/NIMH/NIH               | \$ 70,628    |
|   |   | <i>Hudac, Caitlin</i>     | <i>HEALTHy Brain and Child Development Study at UAB and UA</i>   | University of Alabama Birmingham/NIDA/NIH                                      | \$ 45,834    |
|   | <i>School of Earth, Ocean &amp; Env.</i>        |                           |  |  |              |
|   |   | <i>Ryker, Katherine</i>   | <i>Collaborative Research: Quantifying the extent of student learning and affect associated with observed levels of instructional reform</i>   | National Science Foundation (NSF)  | \$ 119,548   |
|   |   | <i>White, Scott</i>       | <i>Support of the South Carolina Seismic Monitoring Network</i>  | Savannah River Nuclear Solutions/DOE   | \$ 69,668    |
| <b>College of Education</b>               |   |                           |  |  |              |
|   | <i>SC School Improvement Council</i>            |                           |  |  |              |
|   |   | <i>Utter, Karen</i>       | <i>CFEC Community Family Resource Centers</i>  | SC State Department of Education (SCDE)  | \$ 182,400   |
| <b>College of Engineering &amp; Comp.</b> |   |                           |  |  |              |
|   | <i>Chemical Engineering</i>                     |                           |  |  |              |
|   |   | <i>Liu, Chang</i>         | <i>Nanopore-Based HIV Self-Test for Ultrasensitive p24 Quantification in Finger Prick Blood</i>  | National Institute of Allergy and Infectious Diseases (NIAID)/NIH              | \$ 1,206,122 |
|   |   | <i>Meekins, Benjamin</i>  | <i>Nuvera Fuel Cells -- Leachate Testing (End of 2022)</i>   | Nuvera Fuel Cells, LLC   | \$ 8,500     |
|   |   | <i>Mustain, William</i>   | <i>Theory-guided Innovation of High-performance Electrocatalysts for Carbon Dioxide Reduction</i>  | University of Puerto Rico/DOE  | \$ 360,000   |
|   |   | <i>Ritter, James</i>      |  |  |              |

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|---------------------------------------|--|-----------------------|--|--|--------------|
|                                       |  |                       | Development of a Desiccant Heat Recovery System for Combination Clothes Dryer and Washer   | SC Research Foundation (SCRF)/Samsung Electronics America, Inc.      | \$ 122,609   |
|                                       | Electrical Engineering                 | Nasiri, Adel          |  |  |              |
|                                       |  |                       | Compact Direct Medium Voltage Electric Vehicle Charging Systems  | WattEV - Charge America, LLC   | \$ 1,577,391 |
|                                       | Mechanical Engineering                 | Downey, Austin        |  |  |              |
|                                       |  |                       | CAREER: Data-Driven Control of High-Rate Dynamic Systems   | National Science Foundation (NSF)                                    | \$ 551,876   |
|                                       |  | Xue, Xingjian         |  |  |              |
|                                       |  |                       | Membrane Contactor based CO2 Absorbing Module (MC-CAM)   | ChromoLogic/NAWCAD/Navy/DOD  | \$ 15,000    |
| <b>College of Pharmacy</b>            |  |                       |  |  |              |
|                                       | Drug Discovery & Biomed Sci.           | McInnes, Campbell     |  |  |              |
|                                       |  |                       | Subcontract from Sahin RO1 "Overcoming chemoresistance in triple negative breast cancer"   | Medical University of South Carolina (MUSC)/NCI/NIH                  | \$ 325,546   |
|                                       | Pharm - Clin Pharm & Outcomes Sciences | Teng, Chengwen        |  |  |              |
|                                       |  |                       | Safety Assessment of Nirmatrelvir-ritonavir in the FDA Adverse Event Reporting System  | American Association of Colleges of Pharmacy                         | \$ 7,500     |
| <b>Darla Moore School of Business</b> |  |                       |  |  |              |
|                                       | Moore Sch - Div. of Research           | Von Nessen, Joseph    |  |  |              |
|                                       |  |                       | South Carolina Housing Finance and Development Authority: Housing Needs Assessment   | SC State Housing Finance and Development Authority                   | \$ 100,000   |
| <b>School of Law</b>                  |  |                       |  |  |              |
|                                       | Children's Law Center                  | Black, Shelandra      |  |  |              |
|                                       |  |                       | S.C. Department of Juvenile Justice Contract   | SC Department of Juvenile Justice                                    | \$ 225,000   |
| <b>School of Medicine</b>             |  |                       |  |  |              |
|                                       | Internal Medicine                      | Weissman, Sharon      |  |  |              |
|                                       |  |                       | Rapid Response to Incident HIV Infection through Social Network Strategies and Molecular Epidemiology to Inform Partner Services   | UNC Chapel Hill/NIAID/NIH  | \$ 348,423   |
|                                       | Neuropsychiatry                        | Narasimhan, Meera     |  |  |              |
|                                       |  |                       | Realizing Improved Patient Care through Human-centered Design for Pediatric Behavioral Health in the ED (RIPCHD.BHED) Patient Safety Learning Lab  | Clemson University/AHRO/HHS  | \$ 144,388   |
|                                       |  | Sacco-Bene, Christine |  |  |              |
|                                       |  |                       | USC and SCDMH Cooperative Agreement to Provide Graduate Rehabilitation Counseling Courses  | SC Department of Mental Health (SCDMH) - Children Services           | \$ 100,000   |
|                                       | Pediatrics                             | Knight, Lisa          |  |  |              |
|                                       |  |                       | The BREATHE Study: Bronchiolitis Recovery and the Use of High Efficiency Particle Air (HEPA) Filters   | University of Arkansas - Medical Sciences (UAMS)/NIH                 | \$ 17,674    |
| <b>University Health Services</b>     |  |                       |  |  |              |
|                                       | Health Services                        | Scott, April          |  |  |              |
|                                       |  |                       | Together We Can Achieve More   | Substance Abuse & Mental Health Services Administration (SAMHSA)/HHS | \$ 292,900   |
| <b>University of SC Aiken</b>         |  |                       |  |  |              |
|                                       | AK Biology & Geology                   | Shervette, Virginia   |  |  |              |
|                                       |  |                       | Filling in the gaps for data-poor reef fishes in the U.S. Caribbean: research on age, growth, and reproduction for stoplight parrotfish and redbell parrotfish in anticipation of upcoming stock assessments | University of Miami/NOAA/DOC   | \$ 108,281   |