

**Office of VP for Research  
IT and Data Management Office**

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**Arnold School of Public Health**

**Communication Sci & Disorders**

**Neils-Strunjas, Jean**

*Title:* CREATE 2022

*Sponsor:* SC Department of Education/USDE

*Total Projected:* \$218,930

*Project Years:* 1

**Exercise Science**

**Arent, Shawn**

*Title:* A Prospective, Randomized, Double-Blind, Placebo-Controlled Trial to Assess the Physiological, Biochemical, and Psychometric Impacts of a Brand-Specific Hemp-Derived Cannabidiol Product in Healthy Adults

*Sponsor:* Nutrasource Pharmaceutical and Nutraceutical Services Inc./CBD Industries, LLC.

*Total Projected:* \$232,691

*Project Years:* 1

**Health Prom., Educ. & Behavior**

**Frongillo, Edward**

*Title:* Improving WIC Services: Identifying Children at Risk for Obesity in the First 24 Months of Life

*Sponsor:* University of California at Davis/NHLBI/NIH

*Total Projected:* \$19,992

*Project Years:* 4

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**Health Services Policy & Mgmt**

**OLATOSI, BANKOLE**

*Title:* Big Data Health Science Scholar Program for Infectious Diseases

*Sponsor:* National Institute of Allergy & Infectious Diseases (NIAID)/NIH

*Total Projected:* \$763,670

*Project Years:* 5

**College of Arts and Sciences**

**Baruch Institute**

**Dunn, Robert**

*Title:* Integrating climate change effects into ecosystem-based fisheries management: Penaeid shrimp in the southeast US

*Sponsor:* The Regents of the University of Michigan/NOAA/DOC

*Total Projected:* \$599,959

*Project Years:* 3

**Biological Sciences**

**Poulain, Fabienne**

*Title:* Beyond ephrins: unbiased discovery of novel signaling pathways regulating topographic map formation and maturation in vivo.

*Sponsor:* National Institute of Neurological Disorders and Stroke (NINDS)/NIH

*Total Projected:* \$407,545

*Project Years:* 2

**Twiss, Jeffery**

*Title:* Homeostatic Reset as a New Therapeutic Paradigm for Slow Progression Diseases

*Sponsor:* East Carolina University (ECU)/NIGMS/NIH

*Total Projected:* \$683,450

*Project Years:* 5

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### **Center for Science Education**

**Jordan, Donald**

*Title:* USC Junior Science & Humanities Symposium (JSHS)

*Sponsor:* National Science Teachers Association (NSTA)/DOD

*Total Projected:* \$28,252

*Project Years:* 1

### **Chemistry & Biochemistry**

**Sutton, Christopher**

*Title:* Beyond-DFT Electrochemistry with Accelerated and Solvated Techniques (BEAST)

*Sponsor:* Rensselaer Polytechnic Institute (RPI)/DOE

*Total Projected:* \$376,000

*Project Years:* 4

### **Mathematics**

**Boylan, Matthew**

*Title:* Number Theory Meetings in the Southeast

*Sponsor:* National Security Agency (NSA)

*Total Projected:* \$15,029

*Project Years:* 1

### **McKissick Museum**

**Burgess, Lana**

*Title:* NEH Preservation Assistance Grants for Smaller Institutions to Purchase Materials and Supplies for the Long-Term Care of Folklife Collections at McKissick Museum

*Sponsor:* National Endowment for the Humanities (NEH)

*Total Projected:* \$9,993

*Project Years:* 1

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**Przybysz, Jane**

*Title:* SCAC Folklife Partnership Renewal Grant

*Sponsor:* South Carolina Arts Commission

*Total Projected:* \$66,033

*Project Years:* 1

*Title:* Pearl Fryar Topiary Garden Capital Investment

*Sponsor:* Lee County/ARPA/USDOT

*Total Projected:* \$14,550

*Project Years:* 1

**Psychology**

**Weist, Mark**

*Title:* Improving Social, Emotional, Behavioral, and Academic Functioning of Elementary School Students through the Interconnected Systems Framework

*Sponsor:* East Carolina University/IES/USDE

*Total Projected:* \$1,756,552

*Project Years:* 4

**School of Earth, Ocean & Env.**

**Bourbonnais, Annie**

*Title:* Evaluating nitrogen removal strategies to improve stormwater management practices in coastal South Carolina

*Sponsor:* SC Sea Grant Consortium/NOAA

*Total Projected:* \$156,359

*Project Years:* 2

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### **Sociology**

#### **Brashears, Matthew**

*Title:* Societal Impact of Nuclear Detonations Phase 2

*Sponsor:* Defense Threat Reduction Agency/ARA, Inc./DOD

*Total Projected:* \$396,292

*Project Years:* 3

### **College of Education**

#### **Education - Dean's Office**

#### **Berry, Barnett**

*Title:* Creating a Coherent System of Teacher and School Leader Development for Deeper, More Equitable Learning and Whole Child Education

*Sponsor:* Carnegie Corporation of New York

*Total Projected:* \$200,000

*Project Years:* 1

### **Research, Eval., & Measurement**

#### **Lewis, Ashlee**

*Title:* South Carolina Arts Assessment Program (SCAAP)

*Sponsor:* SC Department of Education (SCDE)

*Total Projected:* \$80,000

*Project Years:* 1

*Title:* Evaluation Plan for MUSC Teen Science Ambassador Program

*Sponsor:* Medical University of South Carolina (MUSC)/NIH

*Total Projected:* \$147,967

*Project Years:* 5

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**College of Engineering & Comp.**

**Chemical Engineering**

**Meekins, Benjamin**

*Title:* Nuvera 5 Samples -- Roger Van Boeyen (September 2021)

*Sponsor:* Nuvera Fuel Cells, LLC

*Total Projected:* \$7,987

*Project Years:* 1

**Mustain, William**

*Title:* Engineering of Scalable Platinum-free Electrodes for Pure-Water AEM Electrolysis

*Sponsor:* Origen Hydrogen, Inc/ARPA-E/DOE

*Total Projected:* \$135,000

*Project Years:* 2

**Civil & Environmental Eng.**

**Hoque, Shamia**

*Title:* Siloxane removal from landfill gas using DBD-plasma: A feasibility study for Three Rivers Solid Waste Authority

*Sponsor:* Environmental Research and Education Foundation (EREF)

*Total Projected:* \$81,284

*Project Years:* 2

**Computer Science & Engineering**

**Sheth, Amit**

*Title:* NSF Convergence Accelerator Track F: Actionable Sensemaking Tools for Curating and Authenticating Information in the Presence of Misinformation during Crises

*Sponsor:* Ohio State University (OSU)/NSF

*Total Projected:* \$149,999

*Project Years:* 1

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***Mechanical Engineering***

**Harik, Ramy**

**Title:** *Augmenting Physics-Based Design and Multi-Physics Based Manufacturing with Data Driven Models to Manufacture Advanced Composites Structures with Automated Fiber Placement*

**Sponsor:** College of Charleston/NASA EPSCoR

**Total Projected:** \$700,535

**Project Years:** 3

***College of Pharmacy***

***Drug Discovery & Biomed Sci.***

**Shtutman, Michael**

**Title:** *Knowledge discovery and machine learning to Elucidate the Mechanisms of HIV Activity and Interaction with Substance Use Disorder*

**Sponsor:** National Institute on Drug Abuse(NIDA)/NIH

**Total Projected:** \$2,115,541

**Project Years:** 5

***Pharm - Clin Pharm & Outcomes Sciences***

**Mardis, Caitlin**

**Title:** *Increasing Pharmacists' Awareness of "ATTRactive" Advancements in Transthyretin Amyloid Cardiomyopathy*

**Sponsor:** Pfizer, Inc.

**Total Projected:** \$20,000

**Project Years:** 1

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**College of Social Work**

**Social Work - Dean's Office**

**Flynn, Cynthia**

*Title:* Fatherhood FIRE/H2O Program Evaluation Year 2

*Sponsor:* SC Center for Fathers and Families (SCFF)/HHS

*Total Projected:* \$130,369

*Project Years:* 1

**Maas, Carl**

*Title:* National Opinion Research Center Consultant Contract

*Sponsor:* National Opinion Research Center (NORC)/OPA/HHS

*Total Projected:* \$15,000

*Project Years:* 1

**Darla Moore School of Business**

**Moore Sch - Div. of Research**

**Von Nessen, Joseph**

*Title:* SCRA - FY21 Economic Impact Analysis

*Sponsor:* SC Research Authority (SCRA)

*Total Projected:* \$10,000

*Project Years:* 1

*Title:* S.C. Commission on Higher Education - Economic Impact of the SmartState Program - FY21

*Sponsor:* SC Commission on Higher Education

*Total Projected:* \$25,000

*Project Years:* 1



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***Economic Engagement***

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***Hardaway, Chad***

*Title:* South Carolina Rising: a seed fund and support structure

*Sponsor:* Economic Development Administration (EDA)/DOC

*Total Projected:* \$400,000

*Project Years:* 2

***School of Medicine***

***Pediatrics***

***Rosa, Olga***

*Title:* DHHS/SCCAMRS Administrative Contract 7/1/2021-6/30/2024

*Sponsor:* SC Department of Health and Human Services/HHS

*Total Projected:* \$906,075

*Project Years:* 3

***University of SC Aiken***

***AK School of Education***

***Beck, Judy***

*Title:* GT Graduate courses

*Sponsor:* SC Department of Education (SCDE)

*Total Projected:* \$41,862

*Project Years:* 1

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**University of SC Beaufort**

***BFT Academic Affairs***

***Skipper, George***

*Title:* Body worn cameras

*Sponsor:* South Carolina Department of Public Safety

*Total Projected:* \$11,500

*Project Years:* 1

***BFT Humanities***

***Morris, Brent***

*Title:* Second Founding of America - Project Reconstruction Archive

*Sponsor:* SC Humanities/NEH

*Total Projected:* \$15,000

*Project Years:* 1

*Title:* America's Reconstruction: The Untold Story

*Sponsor:* National Endowment for the Humanities (NEH)

*Total Projected:* \$199,401

*Project Years:* 2