

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

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**Arnold School of Public Health**

**Epidemiology & Biostatistics**

**Zhang, Jiajia**

*Title:* *Harnessing Predictive Modeling to Identify Current and Emerging Hotspots within the HIV/SUD Syndemic*

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

*Total Projected:* \$3,555,880

*Project Years:* 5

**Exercise Science**

**Baker, Forrest**

*Title:* *Harnessing  $\gamma\delta$  T-cell Therapies with Exercise to Treat Multiple Myeloma - Grant transfer from University of Arizona*

*Sponsor:* World Cancer Research Fund/American Institute for Cancer Research

*Total Projected:* \$92,996

*Project Years:* 1

**College of Education**

**Child Development Res. Center**

**Googe, Heather**

*Title:* *2026 United for Every Child Conference*

*Sponsor:* SC Developmental Disabilities Council/ACL/HHS

*Total Projected:* \$20,000

*Project Years:* 1

**Spybrook, Jessaca**

*Title:* *Discovery Research PreK-12 Resource Center: Supporting Transformative STEM Education Research and Knowledge Translation (DRK-12 RC) - Subaward*

*Sponsor:* American Institutes for Research (AIR)/NSF

*Total Projected:* \$145,986

*Project Years:* 5

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***Educational & Developmental Science***

***Smith-Hill, Rebecca***

***Title:*** *SPURS UP: Strengthening Postsecondary Understanding, Readiness, and Success: University Prep*

***Sponsor:*** SC Developmental Disabilities Council/ACL/HHS

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

***Project Years:*** 1

***Teacher Education***

***Muller, Meir***

***Title:*** *CERRA Teacher Recruitment Grant – Apple Core Initiative*

***Sponsor:*** Center for Educator Recruitment, Retention, and Advancement (CERRA)

***Total Projected:*** \$6,000

***Project Years:*** 1

***College of Social Work***

***Social Work - Dean's Office***

***Browne, Teri***

***Title:*** *System Interventions to Achieve Early and Equitable Transplants Study-Long Term (STEPS-LT)*

***Sponsor:*** Wake Forest University/PCORI

***Total Projected:*** \$199,836

***Project Years:*** 5

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***Darla Moore School of Business***

***Moore Sch - Div. of Research***

***Von Nessen, Joseph***

*Title:* PC Matic: 2026 Economic Impact Analysis

*Sponsor:* PC Matic

*Total Projected:* \$68,500

*Project Years:* 1

***McCausland College of Arts and Sciences***

***Biological Sciences***

***LoPresti, Eric***

*Title:* Lanterns in the Wild: An Economic Development Strategy for Firefly Tourism

*Sponsor:* Central Midlands Council of Governments/SE Crescent Regional Commission

*Total Projected:* \$114,884

*Project Years:* 2

***Twiss, Jeffery***

*Title:* REG3A-KHSRP signaling as a target to promote CNS axon regeneration

*Sponsor:* SC Spinal Cord Injury Research Fund

*Total Projected:* \$67,500

*Project Years:* 1

***Vaughn, Lauren***

*Title:* Axonal stress granule composition and translation in peripheral neuropathy

*Sponsor:* Johns Hopkins University/Merkin Family Foundation

*Total Projected:* \$60,000

*Project Years:* 1

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### **Criminology & Criminal Justice**

#### **Boehme, Hunter**

*Title:* Charleston County Sheriff's Office Site-Based Virtual Reality De-Escalation Training: A Randomized Controlled Trial

*Sponsor:* Charleston County Sheriff's Office

*Total Projected:* \$196,162

*Project Years:* 3

#### **Klein, Brent**

*Title:* From Perceptions to Practice: Connecting Firearm Behaviors and Implementation to the Effectiveness of New Jersey's Child Access Prevention (CAP) Laws

*Sponsor:* Rutgers, The State University/State of New Jersey Office of Higher Education

*Total Projected:* \$139,684

*Project Years:* 1

### **Mathematics**

#### **Colebank, Mitchel**

*Title:* A physics-informed data-science approach to ventricular septal defect management

*Sponsor:* SC EPSCoR

*Total Projected:* \$74,726

*Project Years:* 2

### **Physics & Astronomy**

#### **Kulkarni, Varsha**

*Title:* The Keck PRISM Survey: Probing Reddening in Intervening Silicate Dust with Near-Infrared Spectroscopy (Postdoc PI Viacheslav Klimenko)

*Sponsor:* California Institute of Technology Jet Propulsion Laboratory/NASA

*Total Projected:* \$11,250

*Project Years:* 1

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**Lopez Rodriguez, Enrique**

**Title:** *Revealing the Physics of Galactic Outflows Using Far-infrared Polarimetric Capabilities*

**Sponsor:** National Aeronautics and Space Administration (NASA)

**Total Projected:** \$634,788

**Project Years:** 2

**Psychology**

**Arheix-parras, Sophie**

**Title:** *Recovery from Post-Stroke Aphasia With rTMS Targeting The Anterior Temporal Lobe: Interhemispheric Activation Changes And Lesion-Connectome-Based Predictive Outcomes*

**Sponsor:** National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH

**Total Projected:** \$292,008

**Project Years:** 2

**Hamrick, Lisa**

**Title:** *Vocal Development and Social Communication Outcomes of Children with an Older Sibling with Autism*

**Sponsor:** National Institute on Deafness & Other Communication Disorders (NIDCD)/NIH

**Total Projected:** \$1,083,060

**Project Years:** 5

**Smith, Courtnie**

**Title:** *John H. Magill School Mental Health Certificate Program*

**Sponsor:** Office of Mental Health - SC Department of Behavioral Health and Developmental Disabilities

**Total Projected:** \$37,500

**Project Years:** 1

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**Sociology**

**Zhao, Jun**

*Title:* Georgia Family Connection Partnership

*Sponsor:* Georgia State University Research Foundation (GSURF), Inc./Georgia Family Connection Partnership

*Total Projected:* \$10,000

*Project Years:* 1

**Molinaroli College of Engineering & Computing**

**Chemical Engineering**

**Jabbari, Esmail**

*Title:* Configuration Mimetic Osteogenic Peptides by Simulation and Machine Learning

*Sponsor:* National Science Foundation (NSF)

*Total Projected:* \$300,000

*Project Years:* 3

**Jalilvand, Golareh**

*Title:* CAREER: Unraveling Chemical and Structural Dynamics in Multi-step Multi-electron Conversion Reactions

*Sponsor:* National Science Foundation (NSF)

*Total Projected:* \$549,589

*Project Years:* 5

**Mustain, William**

*Title:* Digital Engineering for Army Battery Design and Manufacturing

*Sponsor:* UEC Advanced Electronics/Army/DOD

*Total Projected:* \$2,365,206

*Project Years:* 2

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### **Peng, Zhenmeng**

*Title:* Characterization of Electrocatalytic Systems

*Sponsor:* Battelle Savannah River Alliance, LLC (BSRA)/SRNL/DOE

*Total Projected:* \$18,000

*Project Years:* 3

### **Ritter, James**

*Title:* Advanced Desiccant Clothes Dryer with a Heat Recovery System

*Sponsor:* UT-Battelle, LLC/ORNL/DOE

*Total Projected:* \$353,400

*Project Years:* 2

## **Computer Science & Engineering**

### **Fenner, Stephen**

*Title:* REU Site: Quantum Computing Workforce Development in the New Era of Computing

*Sponsor:* National Science Foundation (NSF)

*Total Projected:* \$366,893

*Project Years:* 3

## **Electrical Engineering**

### **Booth, Kristen**

*Title:* Phase I Option: MVDC STTR with AURA Technologies

*Sponsor:* AURA Technologies, Inc./Naval Sea Systems Command (NAVSEA)/US Navy/DOD

*Total Projected:* \$35,991

*Project Years:* 1

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**Fateh, Fariba**

*Title:* Collaborative Research: Smart Coils for AC Motors

*Sponsor:* National Science Foundation (NSF)

*Total Projected:* \$247,818

*Project Years:* 1

**Mechanical Engineering**

**Anumbe, Noble**

*Title:* State Apprenticeship Expansion Formula, Round 3 (SAEF3) Grant

*Sponsor:* SC Technical College System (SCTCS)/DOL

*Total Projected:* \$500

*Project Years:* 1

*Title:* Youth & Small Business (Y&SB) Apprenticeship State Funding

*Sponsor:* SC Technical College System (SCTCS)

*Total Projected:* \$14,800

*Project Years:* 3

**Gross, Andrew**

*Title:* In Situ SEM Micromechanical Testing of Hydrogen-Charged Austenitic Stainless Steel

*Sponsor:* Battelle Savannah River Alliance, LLC (BSRA)/SRNL/DOE

*Total Projected:* \$25,194

*Project Years:* 1

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**Office of the Provost**

**Rule of Law Collaborative**

**Austermiller, Steven**

*Title:* U.S. Chamber of Commerce Business and ROL Index Project, subaward from NORC

*Sponsor:* National Opinion Research Center (NORC)/US Chamber of Commerce (USCC)

*Total Projected:* \$25,000

*Project Years:* 1

**School of Medicine**

**Family & Preventive Medicine**

**Humphrey, Mark**

*Title:* Improving Hypertension Outcomes in Populations at the Highest Risk of CVD

*Sponsor:* Prisma Health/Midlands/American College of Preventive Medicine (ACPM)/CDC

*Total Projected:* \$8,096

*Project Years:* 1

**Internal Medicine**

**Rahemtullah, Omme-Salma**

*Title:* Reorienting FoodShare's Referral Program for Positive Health Outcomes through Fresh Produce and Nutrition Education

*Sponsor:* USC Educational Foundation/Prisma Health (Community Partner Funding)

*Total Projected:* \$50,000

*Project Years:* 1

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### **MDC Ctr Disability Resources**

#### **Rotholz, David**

*Title:* Training Programs and Technical Assistance for Staff

*Sponsor:* Office of Intellectual and Developmental Disabilities (formerly SC DDSN)/BHDD

*Total Projected:* \$692,078

*Project Years:* 1

*Title:* Provision and Training and Certification for Self-Directed Attendant Care for ID/DD and HASCI Waiver Participants

*Sponsor:* Office of Intellectual and Developmental Disabilities (formerly SC DDSN)/BHDD

*Total Projected:* \$245,810

*Project Years:* 1

### **Neuropsychiatry**

#### **Sacco-Bene, Christine**

*Title:* USC and SCVRD Cooperative Agreement to Provide CSPD Graduate Rehab Counseling Courses.

*Sponsor:* SC Vocational Rehabilitation Department

*Total Projected:* \$144,000

*Project Years:* 3

### **School of Music**

#### **Music**

#### **Schlegel, Amanda**

*Title:* Does Music Participation Decrease Loneliness While Increasing Inhibition? Band Participation on Cognitive and Psychosocial Outcomes in U.S. Veterans

*Sponsor:* University of South Florida/National Association of Music Merchants (NAMM) Foundation

*Total Projected:* \$1,300

*Project Years:* 1

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***University of SC Aiken***

***AK School of Education***

***Beck, Judy***

*Title:* PRIME Center of Excellence: Promoting Research, Innovation, and Mastery in Elementary Math

*Sponsor:* SC Commission on High Education (CHE)

*Total Projected:* \$42,456

*Project Years:* 1

***University of SC Beaufort***

***BFT Student Development***

***Wright, Brandon***

*Title:* 2025-2026 South Carolina Sexual Violence Prevention Grant

*Sponsor:* The South Carolina Institute on the Prevention of Sexual Violence on College Campuses (SCIP)

*Total Projected:* \$3,500

*Project Years:* 1