

# Office of Research IT and Data Management Office

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## **College of Engineering & Comp.**

### **Mechanical Engineering**

**Bayoumi, Abdel**

*Title:* Development of Maintenance Strategies for FVL Platforms

*Sponsor:* Wichita State University/US Army CCDC Aviation and Missile Center

*Total Projected:* \$425,648

*Project Years:* 2

## **Arnold School of Public Health**

### **Environmental Health Sciences**

**Cai, Guoshuai**

*Title:* The evolution of copy number variations in the AT-rich Plasmodium genome -  
Subcontract w/ University of Florida

*Sponsor:* University of Florida/NIH

*Total Projected:* \$91,847

*Project Years:* 3

## **Arnold School of Public Health**

### **Epidemiology & Biostatistics**

**Clay-Gilmour, Alyssa**

*Title:* Impact of Genetic susceptibility along the continuum from Monoclonal  
Gammopathy of Undetermined Significance (MGUS) to Multiple Myeloma (MM)  
(Subcontract to Mayo Clinic)

*Sponsor:* Mayo Clinic/NIH

*Total Projected:* \$148,804

*Project Years:* 5

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## College of Arts and Sciences

### History

#### Donaldson, Bobby

**Title:** *Cooperative Agreement between the Department of the Interior/National Park Service and the Center for Civil Rights History and Research: Programmatic Activities for the CRC*

**Sponsor:** National Park Service/DOI

**Total Projected:** \$3,362,100

**Project Years:** 5

## College of Arts and Sciences

### School of Earth, Ocean & Env.

#### Dragovic, Besim

**Title:** *Collaborative Research: Rodingites as Recorders of Tectonic Processes from the Seafloor to Convergence: A case study of the Dun Mountain Ophiolite Belt*

**Sponsor:** National Science Foundation (NSF)

**Total Projected:** \$137,781

**Project Years:** 3

## School of Medicine

### Genetics

#### Edwards, Janice

**Title:** *Telehealth Curriculum for Genetic Counselors: Increasing Accessibility to Quality Services through Best Practice Education*

**Sponsor:** SC Research Foundation (SCRF)/The Fullerton Foundation

**Total Projected:** \$65,900

**Project Years:** 2

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## **College of Arts and Sciences**

### **Geography**

**Ellis, Jean**

*Title:* Topographic analysis of dunes along a managed coast

*Sponsor:* Slocum - Lunz Foundation

*Total Projected:* \$1,200

*Project Years:* 1

## **Darla Moore School of Business**

### **Small Business Dev. Ctr.**

**Featheringill, Paul**

*Title:* 2022 Rural Microentrepreneur Assistance Program Grant

*Sponsor:* Clemson University/USDA

*Total Projected:* \$44,650

*Project Years:* 1

## **College of Engineering & Comp.**

### **Chemical Engineering**

**Gower, R. Michael**

*Title:* CAREER: Biomaterial Implants to Control Adipose Tissue Function

*Sponsor:* National Science Foundation (NSF)

*Total Projected:* \$500,000

*Project Years:* 5

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## College of Arts and Sciences

### Geography

**Hiscox, April**

**Title:** *Collaborative Research: Understanding Interactions between Mesoscale and Microscale Flows in the Stable Boundary Layer over Shallow Terrain*

**Sponsor:** National Science Foundation (NSF)

**Total Projected:** \$273,725

**Project Years:** 3

## Arnold School of Public Health

### Communication Sci & Disorders

**Klusek, Jessica**

**Title:** *Aging Symptom Trajectories in Mother Carriers of the FMR1 Premutation*

**Sponsor:** National Institute on Aging (NIA)/NIH

**Total Projected:** \$2,900,521

**Project Years:** 5

## College of Arts and Sciences

### Biological Sciences

**Krizek, Beth**

**Title:** *Transcriptional control of growth regulatory modules by AIL transcription factors*

**Sponsor:** National Science Foundation (NSF)

**Total Projected:** \$549,151

**Project Years:** 4

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## **Arnold School of Public Health**

### **Health Services Policy & Mgmt**

**Liang, Chen**

**Title:** *R21 resubmission: Curating a Knowledge Base for Individuals with Coinfection of HIV and SARS-CoV-2: EHR-based Data Mining*

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

**Total Projected:** \$408,619

**Project Years:** 2

## **Koger Center**

### **Koger Center**

**Magradey, Karen**

**Title:** *"Behind the Scenes"-Arts Education Project*

**Sponsor:** SC Arts Commission

**Total Projected:** \$13,048

**Project Years:** 1

## **College of Nursing**

### **Nursing**

**Magwood, Gayenell**

**Title:** *Improving the Collaborative Health of Minority COVID-19 Survivor & Carepartner Dyads Through Interventions Targeting Social and Structural Health Inequities*

**Sponsor:** Department of Health and Human Services/NIH

**Total Projected:** \$2,569,489

**Project Years:** 4

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## College of Arts and Sciences

### History

**Matthews, Marty**

**Title:** *The Papers of William Short: A Digital Selective Documentary Edition*

**Sponsor:** The National Historical Publications and Records Commission (NHPRC)

**Total Projected:** \$110,000

**Project Years:** 1

## College of Arts and Sciences

### Psychology

**McQuillin, Samuel**

**Title:** *Strengthening and Expanding School Mental Health by Integrating Community Mentors in School Problem Solving Teams*

**Sponsor:** USC Educational Foundation/The Duke

**Total Projected:** \$580,000

**Project Years:** 3

## College of Arts and Sciences

### Criminology & Criminal Justice

**Metcalfe, Christi**

**Title:** *The availability of indigent defense in North Carolina and its relationship with local jail populations and pretrial case decisions*

**Sponsor:** North Carolina Office of Indigent Defense Services

**Total Projected:** \$9,973

**Project Years:** 1

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## College of Arts and Sciences

### School of Earth, Ocean & Env.

**Meyer-Gutbrod, Erin**

**Title:** *Assessing Population Effects of Offshore Wind Development on North Atlantic Right Whales*

**Sponsor:** University of St. Andrews/DOI

**Total Projected:** \$14,833

**Project Years:** 2

## College of Arts and Sciences

### Baruch Institute

**Morris, James**

**Title:** *Model Evaluation of Poplar Island Responses to Rising Sea Level*

**Sponsor:** Maryland Environmental Service

**Total Projected:** \$59,689

**Project Years:** 1

## College of Arts and Sciences

### Baruch Institute

**Morris, James**

**Title:** *"Collaborative Research: Not all nitrogen is created equal: Quantifying the effects of different nitrogen forms on marsh persistence."*

**Sponsor:** National Science Foundation (NSF)

**Total Projected:** \$234,022

**Project Years:** 3

## **Office of Research IT and Data Management Office**

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### ***University of SC Beaufort***

#### ***BFT Hospitality Management***

***Olivetti, Keri***

***Title:*** *Vision for the Future: A Collaboration Between USC Beaufort and the Town of Hilton Head Island*

***Sponsor:*** SCRF/Town of Hilton Head Island

***Total Projected:*** \$190,094

***Project Years:*** 1

### ***University of SC Upstate***

#### ***UPS Achieve***

***Oswald-Hensley, Anna***

***Title:*** *ACHIEVE 2022-23*

***Sponsor:*** Upstate Workforce Investment Act/DOL

***Total Projected:*** \$465,794

***Project Years:*** 1

### ***University of SC Beaufort***

#### ***BFT Natural Sciences***

***Pettay, Daniel***

***Title:*** *Establishing a Continuous Environmental Monitoring Station for the Chechessee River in the Port Royal Sound Estuary*

***Sponsor:*** Port Royal Sound Foundation

***Total Projected:*** \$10,000

***Project Years:*** 1



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### ***College of Social Work***

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

**Reese, Lenora**

**Title:** *Lipscomb Foundation Proposal - Recipient Organization Capacity Building Initiative*

**Sponsor:** USC Educational Foundation/The Lipscomb Family Foundation

**Total Projected:** \$36,490

**Project Years:** 1

### ***College of Arts and Sciences***

#### ***Psychology***

**Roberts, Jane**

**Title:** *Autonomic and Sensory Dysfunctions in FMR1 Conditions: Development, Mechanisms and Consequences*

**Sponsor:** National Institute of Child Health & Human Development (NICHD)/NIH

**Total Projected:** \$3,215,991

**Project Years:** 5

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## **School of Medicine**

### **MDC Ctr Disability Resources**

**Rotholz, David**

*Title:* SC Developmental Disability Council Professional Services

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

*Total Projected:* \$25,052

*Project Years:* 1

## **School of Medicine**

### **MDC Ctr Disability Resources**

**Rotholz, David**

*Title:* South Carolina Youth in Transition Training Program

*Sponsor:* SC Family Connections/HHS

*Total Projected:* \$35,000

*Project Years:* 1

## **School of Medicine**

### **MDC Ctr Disability Resources**

**Rotholz, David**

*Title:* South Carolina University Center for Excellence in Developmental Disabilities

*Sponsor:* Administration on Community Living/HHS

*Total Projected:* \$2,888,675

*Project Years:* 5

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## **School of Medicine**

### **MDC Ctr Disability Resources**

**Rotholz, David**

*Title:* Training Programs and Technical Assistance for Staff

*Sponsor:* SC Department of Disabilities and Special Needs

*Total Projected:* \$316,700

*Project Years:* 1

## **School of Medicine**

### **MDC Ctr Disability Resources**

**Rotholz, David**

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

*Sponsor:* SC Department of Disabilities and Special Needs

*Total Projected:* \$200,000

*Project Years:* 1

## **School of Law**

### **Law - Dean's Office**

**Samuels, Joel**

*Title:* Sri Lanka Efficient and Effective Justice (EEJ) subaward from Chemonics International Inc.

*Sponsor:* Chemonics International Inc./USAID

*Total Projected:* \$188,482

*Project Years:* 1

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## **College of Engineering & Comp.**

### **Civil & Environmental Eng.**

**Sasanakul, Inthuorn**

*Title:* Dynamic Properties of Mine Tailings: Aurora Settling Basin

*Sponsor:* Golder Associates, Ltd

*Total Projected:* \$16,320

*Project Years:* 3

## **Hosp., Retail, & Sport Mgmt**

### **Hotel, Restaurant & Tour Mgmt**

**Schroeder, Ashley**

*Title:* DMOcracy - A Global Study of Best Practices for Partnering with Local Residents & Industry

*Sponsor:* Miles Partnership

*Total Projected:* \$7,568

*Project Years:* 1

## **University of SC Beaufort**

### **BFT Math & Comp. Science**

**Sevim, Volkan**

*Title:* Mathematics Opportunities in the Summer (MOS): USCB Summer Math Camp for High School Students

*Sponsor:* Community Foundation of the Lowcountry

*Total Projected:* \$8,000

*Project Years:* 1

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### **College of Arts and Sciences**

#### **Anthropology**

**Simmons, Kimberly**

*Title:* *Ethnographic Overview and Assessment of Charles Pinckney National Historic Site and Fort Sumter and Fort Moultrie National Historical Park*

*Sponsor:* National Park Service/DOI

*Total Projected:* \$139,250

*Project Years:* 2

### **College of Arts and Sciences**

#### **Baruch Institute**

**Smith, Erik**

*Title:* *North Inlet - Winyah Bay National Estuarine Research Reserve FY22 Operations Award*

*Sponsor:* National Ocean Service (NOS)/NOAA/DOC

*Total Projected:* \$780,500

*Project Years:* 1

### **Arnold School of Public Health**

#### **Center for Community Health Alignment**

**Smithwick, Julie**

*Title:* *Community Health Worker Institute Phase Two Proposal BCBSFSC*

*Sponsor:* SC Research Foundation (SCRF)/BCBS Foundation of SC

*Total Projected:* \$600,000

*Project Years:* 3

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## ***College of Social Work***

### ***Child and Family Studies, Center for***

**Soto-Ramirez, Nelis**

*Title:* 2021 National CASA/GAL Annual Survey Data Analysis and Reporting Project

*Sponsor:* National Court Appointed Special Advocates (CASA) & Guardian ad Litem (GAL)/DOJ

*Total Projected:* \$25,048

*Project Years:* 1

## ***School of Medicine***

### ***Basic Science Research***

**Spinale, Francis**

*Title:* IPA - Stephanie Samani

*Sponsor:* Columbia VA Healthcare System/VA

*Total Projected:* \$104,128

*Project Years:* 2

## ***Arnold School of Public Health***

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

**Thrasher, James**

*Title:* Understanding barriers and facilitators to implementation and enforcement of loose cigarettes and bidis sale ban in India using a qualitative approach

*Sponsor:* John Hopkins University

*Total Projected:* \$18,250

*Project Years:* 1

## **Office of Research IT and Data Management Office**

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### ***School of Medicine (Grvl)***

#### ***Medicine Greenville***

***Trilk, Jennifer***

***Title:*** *Evaluating the Implementation and Cost of Integration of a Clinic-Community Physical Activity Model into a Major Health System*

***Sponsor:*** USC Educational Foundation/The Duke Endowment

***Total Projected:*** \$400,000

***Project Years:*** 2

### ***Darla Moore School of Business***

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

***Von Nessen, Joseph***

***Title:*** *Charles River Laboratories International: Economic Impact Analysis*

***Sponsor:*** Charles River Laboratories International

***Total Projected:*** \$25,000

***Project Years:*** 1

### ***Darla Moore School of Business***

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

***Von Nessen, Joseph***

***Title:*** *Charleston County Economic Development*

***Sponsor:*** Charleston County Economic Development Department

***Total Projected:*** \$72,550

***Project Years:*** 1

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## College of Arts and Sciences

### Chemistry & Biochemistry

**Wang, Qian**

*Title:* Synthesis of Starting Materials of Glycolipids and Gangliosides

*Sponsor:* Integrated Micro-Chromatography Systems, Inc.

*Total Projected:* \$16,320

*Project Years:* 2

## College of Engineering & Comp.

### Mechanical Engineering

**Wang, Yi**

*Title:* Parametric Reduced Order Models-based Uncertainty Quantification in Aeroelasticity

*Sponsor:* CFD Research Corporation/NASA

*Total Projected:* \$250,009

*Project Years:* 2

## College of Engineering & Comp.

### Mechanical Engineering

**Wang, Yi**

*Title:* A Deep Learning Framework for Real-Time Health and Security Monitoring and Diagnosis of Manufacturing Systems Based on Energy Consumption Auditing

*Sponsor:* CFD Research Corporation/USAF

*Total Projected:* \$359,892

*Project Years:* 2



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### ***College of Engineering & Comp.***

#### ***Civil & Environmental Eng.***

***Ziehl, Paul***

***Title:*** *Bovine Collogen DSC Trials*

***Sponsor:*** *Devro, Inc*

***Total Projected:*** *\$4,443*

***Project Years:*** *1*

### ***College of Engineering & Comp.***

#### ***Civil & Environmental Eng.***

***Ziehl, Paul***

***Title:*** *Thermoplastic Composite Welded Assemblies*

***Sponsor:*** *Advance Technology International (ATI)/ONR/DOD*

***Total Projected:*** *\$30,000*

***Project Years:*** *2*