

## University of South Carolina — May 2023 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
Arnold School of Public Health					
	Center for Community Health Alignment				
		Rawlinson, Kimberly	CCHA's Equity through Meaningful Community Engagement (EMCE) Initiative - SOC Systems Level Change 2023-2024	Sisters of Charity Foundation of South Carolina	\$ 20,000
	Environmental Health Sciences				
		Lead, Jamie	Developing a nano-enabled technology for the removal of harmful algal blooms in marine waters and freshwaters	South Carolina Research Authority (SCRA)	\$ 15,000
	Epidemiology & Biostatistics				
		Liese, Angela	Impact of Disparities in Food Security on Glycemic Control and Health Care Utilization Among Youth and Young Adults with Diabetes (R01 Competing Renewal)	National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK)/NIH	\$ 3,446,796
		Liu, Jihong	Prisma Healthy Start Project 4/1/2023 - 3/31/2024	Prisma Health - Midlands/HRSA	\$ 120,134
	Exercise Science				
		Armstrong, Bridget	Leveraging Existing Community Programs as a Treatment Modality for Hypertension Risk Among Youth	Prisma Health - Upstate	\$ 18,632
		Moore, Robert	IPA Agreement with Dorn VA Medical Center - Robert Davis Moore	WJB Dorn VA Medical Center/VA	\$ 48,291
			IPA Agreement with Dorn VA Medical Center - Kiersten Mangold	WJB Dorn VA Medical Center/VA	\$ 39,164
		Weaver, Glenn	Increasing Low-income Children's Access to Healthy Structured Programming to Reduce Obesity	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)/NIH	\$ 2,800,061
			Identifying the Ideal Dose of Structured Summer Programming for Mitigating Accelerated Summer BMI Gain	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)/NIH	\$ 2,970,125
		Yang, Chih-Hsiang (Jason)	Variability and Volume of Day-to-Day Lifestyle Activity in Sustaining Cognitive Function among Insufficiently Active Older Adults at Risk for Alzheimer's Disease and Related Dementias	National Institute on Aging (NIA)/NIH	\$ 396,422
	Health Prom., Educ. & Behavior				
		Draper, Carrie	Gus Schumacher Nutrition Incentive Program's Produce Prescription Grant (GusNIP PPG) program	SC Hospital Association (SCHA) Foundation/USDA	\$ 71,300

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		<i>Li, Xiaoming</i>	<i>Visualizing and predicting new and late HIV diagnosis in South Carolina: A Big Data approach</i>	National Institute of Allergy and Infectious Diseases (NIAID)/NIH	\$ 699,122
		<i>Mann, Emily</i>	<i>The Biomedicalization of Advanced Maternal Age</i>	National Science Foundation (NSF)	\$ 141,833
		<i>Qiao, Shan</i>	<i>The impacts of HIV-related service interruption during COVID-19 pandemic in South Carolina</i>	National Institute of Allergy and Infectious Diseases (NIAID)/NIH	\$ 2,790,281
	<i>Health Services Policy &amp; Mgmt</i>				
		<i>Natafji, Nabil</i>	<i>Broadband Equity, Access, and Deployment (BEAD) Program - Digital Equity Office</i>	SC Digital Equity Office - SC Department of Administration	\$ 15,250
		<i>Wright, Brad</i>	<i>Cooperative Agreement for a Regional Center for Health Workforce Studies</i>	UNC at Chapel Hill/HRSA/HHS	\$ 20,954
	<i>PASOS</i>				
		<i>Martin, Maria</i>	<i>Greenwood Genetic Partnership for Folic Acid Promotion with Latino Communities 2023</i>	Greenwood Genetic Center	\$ 26,000
<i>College of Arts and Sciences</i>					
	<i>BARUCH COASTAL LABORATORY</i>				
		<i>Strosnider, William</i>	<i>Development of a fully biodegradable floating treatment wetland</i>	SC Sea Grant Consortium/NOAA	\$ 9,429
	<i>Baruch Institute</i>				
		<i>Smith, Erik</i>	<i>Collaborative development of novel remote sensing work flows for assessing oyster reef structural and demographic characteristics to inform management and restoration</i>	SC DNR/University of Michigan/NOAA	\$ 23,005
	<i>Biological Sciences</i>				
		<i>Sahoo, Pabitra</i>	<i>Establishing the kinetics for failure of axonal protein synthesis in chronic nerve injury.</i>	Johns Hopkins University/Merkin Family Foundation	\$ 150,000
	<i>Chemistry &amp; Biochemistry</i>				
		<i>Shimizu, Ken</i>	<i>Development of molecular devices for the study of emerging non-covalent interactions.</i>	National Science Foundation (NSF)	\$ 491,394
	<i>Geography</i>				

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		Ellis, Jean	<i>Evaluating Literacy and Perception of Coastal Dune Hazard Impacts and Management Strategies across the South Carolina Coastal Zone</i>	SC Sea Grant Consortium/NOAA	\$ 6,163
	History				
		Elfenbein, Jessica	<i>Wood Basket of the World: Lumbering, Manufacturing, and Conserving South Carolina's Forests - Conference and Traveling Exhibit</i>	SC Humanities/NEH	\$ 10,000
	Mathematics				
		Li, Wuchen	<i>Transport information geometric computations</i>	Air Force Office of Scientific Research (AFOSR)/DOD	\$ 449,677
	Physics & Astronomy				
		Ilieva, Yordanka	<i>eRD110 Photosensors for EIC Detectors</i>	Thomas Jefferson National Accelerator Facility/DOE	\$ 4,000
			<i>EIC KLM R&amp;D Proposal</i>	Thomas Jefferson National Accelerator Facility/DOE	\$ 25,500
		Kulkarni, Varsha	<i>Probing the Gas in and around Local Galaxies Mapped with Integral Field Spectroscopy</i>	Space Telescope Science Institute (STScI)/NASA	\$ 271,191
	Psychology				
		Bradshaw, Jessica	<i>(Kaleb Phelps - PI) Autism Science Foundation Undergraduate Summer Research Fellowship: Understanding the Diagnostic Experiences of Black Families</i>	Autism Science Foundation, Inc. (ASF)	\$ 4,000
		Cooper, Daniel	<i>Maximizing the Impact of Preventive Interventions: Identifying Responders and Non-Responders of an Evidence-Based Intervention for Low-Income Families Using a Person-Centered Approach</i>	National Institute of Mental Health (NIMH)/NIH	\$ 165,647
	School of Earth, Ocean & Env.				
		Bourbonnais, Annie	<i>Collaborative Research: Exploring the dynamics of nitrous oxide in the Southern Benguela Upwelling System</i>	National Science Foundation (NSF)	\$ 147,450
		Frost, Daniel (Dan)	<i>Imaging deep mantle structure beneath Alaska using full waveform tomography</i>	National Science Foundation (NSF)	\$ 221,284
		Peng, Xuefeng (Nick)	<i>Nitrous oxide production by salt marsh sediment fungi: its significance and mechanisms</i>	National Science Foundation (NSF)	\$ 990,239
	Statistics				
		Ho, Yen-Yi	<i>ASH1L mediated transcription networks in autism spectrum disorders</i>	Brown University/NIMH/NIH	\$ 11,065
College of Education					
	Education - Dean's Office				
		Van Buren, Cindy	<i>NIET Supporting Effective Educator Development 2023-2024</i>	National Institute for Excellence in Teaching (NIET)/SCPLN/USDE	\$ 10,000

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	Research, Eval., & Measurement				
		D'Amico, Leigh	Columbia Urban League Excellence & Equity in Education Evaluation	Columbia Urban League/SCDE/USDE	\$ 61,560
			Preschool Development Grant Planning 2023	SC First Steps to School Readiness/SCDSS/HHS	\$ 124,195
	SC School Improvement Council				
		Harrison, Theresa	Dual Language Learner Landscape Analysis and Needs Assessment	South Carolina First Steps	\$ 10,000
College of Engineering & Comp.					
	Chemical Engineering				
		Taheri-Qazvini, Nader	CAREER: Mechanistic understanding of the nanoscale interactions of structurally tunable 3D assemblies of MXenes-polyelectrolytes	National Science Foundation (NSF)	\$ 623,243
	Civil & Environmental Eng.				
		Caicedo, Juan	Evaluate, Update, and Rewrite SCDOT Seismic Design Policy and Procedures	SC Department of Transportation (SCDOT)	\$ 1,561,369
		Goharian, Erfan	CAREER: Harnessing Heterogeneous Sources of Data and Artificial Intelligence for Informed Flood Management	National Science Foundation (NSF)	\$ 520,799
		Ziehl, Paul	Manufacturing Advanced Composites for Hypersonics (MACH)	National Security Technology Accelerator (NSTXL)/DOD	\$ 534,987
	Electrical Engineering				
		Matolak, David	Novel approaches and technologies for low probability of detect /intercept (LPD/LPI) communications against advanced electronic threats	L3Harris/ONR	\$ 651,474
	Mechanical Engineering				
		Downey, Austin	Collaborative Research: SHF: Small: Sub-millisecond Topological Feature Extractor for High-Rate Machine Learning	National Science Foundation (NSF)	\$ 250,000
		Yuan, Lang	Real-time In Situ Microstructure Characterization by Ultrasound in Additive Manufacturing	National Institute of Standards and Technology (NIST)/DOC	\$ 957,290
College of Nursing					
	Nursing				
		Felder, Tisha	It Takes a Village: Increasing Capacity for Breast/Chest Feeding Equity among African Americans	Patient-Centered Outcomes Research Institute (PCORI)	\$ 246,113
College of Social Work					

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	<i>Families in Society, Institute</i>				
		<i>Shapiro, Cheri</i>	<i>External Evaluation of Childcare Scholarships for South Carolina First Steps</i>	SC First Steps	\$ 71,638
<i>Darla Moore School of Business</i>					
	<i>Moore Sch - Div. of Research</i>				
		<i>DeBacker, Jason</i>	<i>Special Economic Zone Designations to Enhance Economic Development</i>	Smith Richardson Foundation, Inc.	\$ 276,834
		<i>Von Nessen, Joseph</i>	<i>SC Appleseed Legal Justice Center: Medicaid Expansion Review</i>	South Carolina Appleseed Legal Justice Center	\$ 10,000
			<i>REV Federal Credit Union: Economic Impact Analysis</i>	REV Federal Credit Union	\$ 63,550
<i>Division of Student Affairs</i>					
	<i>Substance Abuse and Prevention</i>				
		<i>Hourigan, Aimee</i>	<i>College Prevention Funding #2</i>	SC Department of Alcohol and Other Drug Abuse Services (DAODAS)	\$ 72,434
<i>Office of the Provost</i>					
	<i>Provost</i>				
		<i>Gibson, Robert</i>	<i>Building a Youth Network of Anne Frank Ambassadors in South Carolina</i>	SC Humanities/NEH	\$ 9,885
<i>School of Law</i>					
	<i>Law - Dean's Office</i>				
		<i>Black, Derek</i>	<i>Congressionally Funded Community Projects Program: Rule of Law Center</i>	US Department of Education (USDE)	\$ 950,000
		<i>Park, Bryant</i>	<i>SC Bar Foundation Public Interest Fellowship 2023</i>	SC Bar Foundation	\$ 10,000
<i>School of Medicine</i>					
	<i>Basic Science Research</i>				
		<i>Spinale, Francis</i>	<i>(IPA - Angela Hitch) Program Manager for Cardiovascular Research Program VA Contract (Risk Account)</i>	WJB Dorn VA Medical Center/VA	\$ 35,711
	<i>Pharm., Physiology &amp; Neuroscience</i>				
		<i>Pocivavsek, Ana</i>	<i>Prenatal kynurenic acid elevation: sleep and behavior dynamics of mother and offspring</i>	American Academy of Sleep Medicine (AASM) Foundation	\$ 100,000
		<i>Wood, Susan</i>	<i>IPA for Shannon Harrington -- Neural regulation of susceptibility to hyperarousal</i>	WJB Dorn VA Medical Center/VA	\$ 147,949

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School of Medicine (Grvl)					
	Medicine Greenville				
		Blenda, Anna	Application of Artificial Intelligence (AI) in Predicting the Outcome of Cancer in Patients Using Cancer-Critical Gene Sequences and Clinical Data	Prisma Health-Upstate	\$ 10,000
		Chosed, Renee	Effect of mitophagy on oocyte and embryonic competency	Prisma Health-Upstate	\$ 6,000
			Using Targeted Mass Spectrometry to Screen IVF-Generated Embryos for Molecular Markers Associated with Pregnancy Outcomes	Prisma Health-Upstate	\$ 19,900
University of SC Aiken					
	AK Academic Affairs				
		Timmons, Daren	USC Aiken STEM Infrastructure Support -- Congressionally Funded Community Project	US Department of Education (USDE)	\$ 830,000
	AK Psychology				
		Rogers, Mary M.	Substance Use Prevention Rural Community - Part 2	SC Department of Alcohol & Other Drug Abuse Services (DAODAS)/SAMHSA/HHS	\$ 75,000
University of SC Beaufort					
	BFT Academic Affairs				
		Skipper, George	NSF Engines Development Award: Advancing cyber security technologies for the maritime system (SC)	National Science Foundation (NSF)	\$ 998,073
University of SC Upstate					
	UPS Achieve				
		Oswald-Hensley, Anna	ACHIEVE Cherokee County Mileage Reimbursement	Spartanburg County/Upstate Workforce Futures Corporation	\$ 1,940
	Upstate				
		Purdy, Kim	Jump Start for Rising First and Second Year Students	SC Commission on Higher Education (SC CHE)/SCDE/USDE	\$ 452,311