

University of South Carolina — November 2024 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				
		Smithwick, Julie	SC Roadmap to Social Determinants of Health (SDoH) Phase 2 BCBSFSC	SC Research Foundation (SCRF)/BCBS Foundation of SC	1,200,000
	Communication Sci & Disorders				
		Fitton, Lisa	Diagnostic identification of language and reading disorders among bilingual learners (R01 Proposal)	National Institutes of Health (NIH)	3,100,178
	Environmental Health Sciences				
		Langan, Laura	Disease Surveillance in Sewersheds: An Alternative Approach to Population Monitoring in Support of Public Health Decision Making	Baylor University/Texas Health and Human Services Commission/Department of State Health Services (Texas)	200,000
		Sabo-Attwood, Tara	Atmospheric transformation of harmful cyanobacterial algae and novel mechanisms of pulmonary toxicity	National Institute of Environmental Health Sciences (NEHS)/NIH	425,512
	Exercise Science				
		Arent, Shawn	Evaluating the Efficacy of a Supplement Combination for Improving Stress and Sleep: A Randomized Placebo-Controlled Clinical Trial	Momentous	80,309
	Health Services Policy & Mgmt				
		Andrews, Christina	South Carolina Center for Excellence in Addiction	South Carolina Opioid Recovery Fund (SCORF)/DAODAS	316,050
			Methodology and Advanced Analytics Resource Center 2.0	University of Chicago/NIDA/NIH	34,407
College of Arts and Sciences					
	Biological Sciences				
		Welshhans, Kristy	Preclinical T21RS Committee – Request from iPSC Workgroup for an Undergraduate Hire	Trisomy 21 Research Society (T21RS)	2,410
	McKissick Museum				
		Burgess, Lana	Digitizing Paper-Based Archives in the Folklife Resource Center, McKissick Museum	State Historical Records Advisory Board/SCDAH	3,328
	Physics & Astronomy				
		Kulkarni, Varsha	Analyzing Galaxy Evolution and Star Formation via the Circumgalactic Medium	College of Charleston/SC Space Grant Consortium/NASA	16,000
	Psychology				

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		<i>Becker, Kimberly</i>	<i>Microecological Influences of Supervision on URE in Children's Mental Health: Secondary Analysis of the Child STEPs in California Randomized Effectiveness Trial</i>	<i>UCLA/William T. Grant Foundation</i>	49,996
	School of Earth, Ocean & Env.				
		<i>Benitez-Nelson, Claudia</i>	<i>Quantification of atmospheric carbon dioxide removal using an autonomous ocean sensor that measures sinking particulate carbon flux</i>	<i>Woods Hole Oceanographic Institution/DOE</i>	743,641
		<i>Ryker, Katherine</i>	<i>JSHS Regional Science Fair 2025</i>	<i>National Science Teachers Association (NSTA)/DOD</i>	28,189
College of Education					
	Child Development Res. Center				
		<i>Rao, Vasanthi</i>	<i>Child Care Data Collection & Analysis 2024-2025</i>	<i>SC Department of Social Services (DSS)</i>	754,210
	Education - Dean's Office				
		<i>Brian, Ali</i>	<i>Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP) South Carolina State Grant, FY 2024 Proposal</i>	<i>US Department of Education (USDE)</i>	34,998,484
			<i>(PI - Michael Ertel) The effects of nonlinear pedagogy and the UDL framework on game performance for students with and without disabilities in middle school general physical education - IMDRC</i>	<i>International Motor Development Research Consortium (I-MDRC)</i>	1,000
	Research, Eval., & Measurement				
		<i>Dickenson, Tammiee</i>	<i>Evaluation of the Young Men United Program Year 3</i>	<i>United Way of the Midlands</i>	63,000
	Teacher Education				
		<i>Baum, Angela</i>	<i>To Improve the Quality of Child Care Leadership For South Carolina's Families</i>	<i>SC Department of Social Services (DSS)</i>	214,561
College of Pharmacy					
	Drug Discovery & Biomed Sci.				
		<i>McInnes, Campbell</i>	<i>Developing novel LOX inhibitors to target chemotherapy resistant TNBC</i>	<i>Loxigen, Inc./NCI/NIH</i>	129,469
College of Social Work					
	Social Work - Dean's Office				
		<i>Baughman, Amber</i>	<i>Fatherhood FIRE/H2O Program Evaluation Year 5</i>	<i>SC Center for Fathers and Families (SCCFF)/HHS</i>	92,453
		<i>Gowdy, Elizabeth (Ann)</i>	<i>YEA! State-wide Network Capacity Building</i>	<i>SC Department of Social Services (SC DSS)</i>	111,529
		<i>Owens, Otis (Shaun)</i>	<i>Acceptability of a Remote Monitoring System among Rural Residing African Americans of South Carolina in 2024</i>	<i>Life Analytics/NIH</i>	14,089
Hosp., Retail, & Sport Mgmt					
	Hotel, Restaurant & Tour Mgmt				
		<i>DiPietro, Robin</i>	<i>University of Aruba Collaboration - Part IV</i>	<i>University of Aruba</i>	683,424

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Koger Center					
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		Terracio, Nathan	South Carolina Arts Commission General Operating Support	SC Arts Commission	29,889
Molinaroli College of Engineering & Computing					
	Chemical Engineering				
		Heyden, Andreas	Statement of Work for Institute for Cooperative Catalysis in Upcycling of Polymers (iCOUP 2.0)	AMES National Laboratory/DOE	600,000
		White, Ralph	Navy Battery Modeling and Simulation Support	Naval Surface Warfare Center, Crane Division, (NSWC Crane)/DOD	673,937
	Civil & Environmental Eng.				
		Matta, Fabio	IRISE Membership - PennDOT - Bridge Load Ratings	University of Pittsburgh/Pennsylvania DOT	16,000
		Ziehl, Paul	Low-Cost Aerospace Fabrication Technology (L-CRAFT)	Maher & Associates/AFRL/DOD	1,500,192
	Computer Science & Engineering				
		Huhns, Michael	Next-Generation Multiagent-Based Simulation System in support of the ICS-INFEST Project	University of Maryland/ARLIS/DOD	134,823
	Mechanical Engineering				
		Chen, Fanglin	SI: Topic ID: ARL-BAA-0025: Sulfur-tolerant, Coking Resistant Anode Catalyst Enabling Fuel Flexible Solid Oxide Fuel Cells	US Army Contracting Command/DOD	640,000
		Huang, Kevin	Zero emission, high energy density, high efficiency aluminum air energy storage and power generation system	Aurora Flight Sciences Corporation/Boeing/ARPAR-e/DOE	249,999
		Won, Sang Hee	Development of Compact Chemical Kinetic Models and Approaches for Predicting Key Properties of Petroleum-derived and Sustainable Aviation Fuels	GE Aerospace	150,001
School of Medicine					
	Basic Science Research				
		Bonilha, Leonardo	Predicting Epilepsy Surgery Outcomes Using Neural Network Architecture (CAPES)	Emory University/NIH	22,454
	Cardiovascular Translational Research Center				
		Dos Anjos Moraes, Raia	Role of Piezo1 in regulating acetylcholine release from endothelial cells and its impact on erectile dysfunction in hypertensive mice	Sexual Medicine Society of North America (SMSNA) Foundation	25,000
	Cell Biology & Anatomy				
		Azhar, Mohamad	Targeted chelation (EDTA) therapy to regress already developed calcification	Elastrin Therapeutics, Inc.	15,400

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	Internal Medicine				
		Ahuja, Divya	South Carolina HIV/AIDS Clinical Training Center/Vanderbilt - AETC (BASE- PT)	Vanderbilt University Medical Center (VUMC)/HRSA/HHS	227,976
	MDC Ctr Disability Resources				
		Rotholz, David	Byrne State Crisis Intervention Program	Office of Highway Safety and Justice Programs (OHSJP)/SCDPS//DOJ	779,761
	Neuropsychiatry				
		Narasimhan, Meera	SC Behavioral Health Initiative Evaluation	Prisma Health - Midlands/SCCRPH/SCDHHS	72,800
University Libraries					
	Univ Libraries - Dean's Office				
		Lookingbill, Valerie	Eugene Garfield Doctoral Dissertation Fellowship	Beta Phi Mu International Honor Society	3,000
University of SC Aiken					
	AK Psychology				
		Swain, Laura	MRI: Track 1 - Acquisition of electroencephalogram (EEG) equipment to advance multi-user interdisciplinary cognitive neuroscience research at University of South Carolina Aiken	National Science Foundation (NSF)	158,502
University of SC Beaufort					
	BFT Natural Sciences				
		Montie, Eric	Inflation Reduction Act: Sharing Passive Acoustic Monitoring Data from the Estuarine Soundscape Observatory Network in the Southeast (ESONS) with the IOOS Association	Southeast Coastal Ocean Observing Research Association (SECOORA)/University of Delaware/NOAA	495,000
University of SC Lancaster					
	LAN PALMETTO COLLEGE				
		Austell, Connor	Lancaster Performance Series FY25 Art of Community: Rural SC	SC Arts Commission	6,375
		Catledge, Courtney	CNA to BSN Pathway to Enhance the Healthcare Workforce in Rural South Carolina - Extension Grant	SC Center for Rural and Primary Healthcare (SCCRPH)/SCDHHS	203,934
University of SC Upstate					
	UPS Dept of Education				
		Turgut, Refika	EducateAI DCL: Cultivating AI Literacy through Linguistically Inclusive Integrated Elementary Curriculum via Educational Robotics	University of Nevada, Las Vegas/NSF	122,116

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