

University of South Carolina — August 2024 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
Arnold School of Public Health					
	Communication Sci & Disorders				
		McLeod, Angela	SPEAK OUT! Parkinson's Interventions	Parkinson Voice Project	50,000
	Epidemiology & Biostatistics				
		Ghosal, Rahul	Social Determinants of Health and Adverse Outcomes in Childhood Cancer (Professional Service Agreement with Prisma)	Prisma/Hyundai Hope on Wheels	24,734
		Kanyangarara, Mufaro	Enhancing the Survival of Low Birth Weight Infants in Low Resource Settings using an Implementation Science Approach	National Institute of Child Health & Human Development (NICHD)/NIH	387,876
		Perumal, Nandita	Improving estimation of anemia in GBD	University of Washington/Bill & Melinda Gates Foundation	57,962
	Exercise Science				
		Arent, Shawn	(Gianna Mastrofini, Doctoral Student PI) - The Effects of High-Intensity Functional Training versus Traditional Strength Training or Concurrent Training on Performance and Readiness in Tactical Populations	National Strength and Conditioning Association (NSCA) Foundation	14,976
		Pellegrini, Christine	Optimizing a Remote-based Physical Activity Intervention for Adults with Total Knee Replacement	National Institute on Aging (NIA)/NIH	3,005,288
College of Arts and Sciences					
	Anthropology				
		Steinberg, Jonah	Endangered Indic Languages of Europe: Community-Based Documentation of Lesser-Studied Sinti and Romani Varieties of the Mediterranean Rim	National Science Foundation (NSF)	448,644
	Baruch Institute				
		Dunn, Robert	(Liam Batchelder - PI) Davidson Fellowship - Quantifying Dynamics of Penaeid Shrimp Nursery Habitat Use to Inform Ecosystem Based Management in a Changing World	National Oceanic & Atmospheric Administration (NOAA)/DOC	107,330
		Smith, Erik	North Inlet - Winyah Bay National Estuarine Research Reserve FY24 Operations Award	National Ocean Service (NOS)/NOAA/DOC	880,967
	Biological Sciences				
		Dallas, Tad	Towards a wormier world: Augmenting and georeferencing the largest host-helminth database	National Science Foundation (NSF)	792,845
		LoPresti, Eric	University of Wyoming - National Park Service Student Grant - Sierra Jaeger	National Park Service (NPS)/DOI	5,000
		Stone, Joshua	Collaborative Research: Understanding efficient particulate organic carbon transfer to depth in the ocean's oxygen minimum zones	National Science Foundation (NSF)	140,826
		Wessinger, Carolyn	Collaborative research: CMT: Linking genomic variation to complex floral trait adaptation across a species boundary	National Science Foundation (NSF)	396,938

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	Chemistry & Biochemistry				
		<i>Richardson, Susan</i>	<i>Drinking Water Safety: Occurrence, Formation, and Genotoxicity of New Halocyclopentadiene Disinfection By-Products</i>	National Science Foundation (NSF)	253,000
		<i>Shustova, Natalia</i>	<i>Preparation of Stimuli-Responsive Materials with Directed Photophysical Behavior</i>	National Science Foundation (NSF)	400,148
		<i>Walters, Wendell</i>	<i>From Precursors to Particles: Evaluating Chemical Formation and Sources of Aerosols in the Eastern North Atlantic</i>	Department of Energy (DOE)	517,678
	Mathematics				
		<i>He, Siming</i>	<i>Topics in Mathematical Biology and Fluids</i>	National Science Foundation (NSF)	122,002
		<i>Ju, Lili</i>	<i>Structure-Preserving Linear Schemes for the Diffuse-Interface Models of Incompressible Two-Phase Flows with Matched Densities</i>	National Science Foundation (NSF)	294,473
		<i>Wang, Qi</i>	<i>AI-enabled investigation of mechanisms for multiscale ion transport in polymer electrolytes as anion-exchange membranes</i>	US Department of Energy (DOE)	600,000
	Philosophy				
		<i>Tollefsen, Christopher</i>	<i>Fellowship - Notre Dame Center for Ethics and Culture</i>	University of Notre Dame	102,574
	Physics & Astronomy				
		<i>Kulkarni, Varsha</i>	<i>Characterizing Interstellar Dust Extinction in Galaxies and Its Cosmic Evolution</i>	NASA	396,897
	Psychology				
		<i>Edmunds, Sarah</i>	<i>3/4: Improving the Part C Early Intervention Service Delivery System for Children with ASD: A Randomized Clinical Trial II - RISE Implementation Science Team</i>	Rush University/NIH	22,056
		<i>Fu, Xiaoxue (Jessie)</i>	<i>Early Predictors of Infant-Parent Coordinated Attention and Word Learning in Preterm and Full-Term Infants</i>	National Institute of Child Health & Human Development (NICHD)/NIH	404,115
		<i>Maydeu-Olivares, Albert</i>	<i>Estimation of misspecified structural equation models with latent variables</i>	National Science Foundation (NSF)	249,999
		<i>Shinkareva, Svetlana</i>	<i>Neural representation of affective states during narrative listening across the lifespan</i>	National Science Foundation (NSF)	500,000
		<i>Weist, Mark</i>	<i>Comprehensive State School Mental Health Policy Academy</i>	Bellwether Education Partners, Inc./The Duke Endowment	20,000
		<i>Wilson-King, Dawn</i>	<i>Linking Exercise for Advancing Daily Stress (LEADS) Management and Resilience in Black Families</i>	National Institute on Minority Health and Health Disparities (NIMHHD)/NIH	3,166,237

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	School of Earth, Ocean & Env.				
		Bulusu, Subrahmanyam	<i>The Role of the Russian Shelf and Eurasian Basin on the Beaufort Gyre and Arctic Freshwater Content</i>	Office of Naval Research (ONR)/DOD	40,000
		Dragovic, Besim	<i>Collaborative Research: Examining the paleo-thermal structure of the Alpine subduction interface with an integrated petrochronology and geodynamic modeling approach</i>	National Science Foundation (NSF)	399,282
		Fuente, David	<i>Evaluation of Alaska Native Tribal Health Consortium's (ANTHC) Potable Water Delivery Project</i>	Alaska Native Tribal Health Consortium	80,757
		Leier, Andrew	<i>Collaborative Research: Paleoclimatic and tectonic forcing on Neogene sedimentation changes in the Beaufort-Mackenzie Basin</i>	National Science Foundation (NSF)	266,168
College of Information & Comm.					
	School of Information Sciences				
		Kitzie, Vanessa	<i>Leveraging National Library Partnerships to Develop a Community-Driven Online LGBTQIA+ Consumer Health Guide</i>	Institute of Museum and Library Services (IMLS)	249,980
		Mohammadi, Ehsan	<i>Understanding Ph.D. Students' Perceptions and Information Literacy Skills in Interacting with ChatGPT-Generated Content</i>	Institute for Information Literacy at Purdue University	3,500
		Spiering, Jenna	<i>Extending School Librarian Preparation Through Transitional Mentorship with Early Career School Librarians</i>	Institute of Museum and Library Services (IMLS)	374,194
		Tu-Keefner, Feili	<i>Project Library PREPARE: Planning, Response, Emergency Preparedness, and Resilience Education</i>	Institute of Museum and Library Services (IMLS)	249,721
College of Nursing					
	Nursing				
		Andrews, Jeanette	<i>2024-2026 Jonas Scholars Program</i>	Jonas Nursing and Veterans Healthcare (Jonas)/AACN	12,000
		Pinto, Bernardine	<i>Making Healthy Habits Stick: Extended Contact Interventions to Promote Long Term Physical Activity in African American Cancer Survivors</i>	University of Tennessee Health Sciences Center/NIH	31,649
College of Pharmacy					
	Drug Discovery & Biomed Sci.				
		Kiaris, Hippokratis	<i>Center for Targeted Therapeutics Phase 3</i>	National Institute of General Medical Sciences (NIGMS)/NIH	5,587,500
College of Social Work					
	Social Work - Dean's Office				
		Browne, Teri	<i>Helping Patients Achieve Kidney Transplants through Health System Change</i>	Wake Forest University/PCORI	27,056

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		<i>Iachini, Aidyn</i>	<i>ReadySET to Support School Mental Health</i>	USC Educational Foundation/Duke Endowment Foundation	240,000
		<i>Levkoff, Sue</i>	<i>The ADAR Summit Meeting</i>	National Institute on Aging (NIA)/NIH	74,959
		<i>Owens, Otis (Shaun)</i>	<i>Home-based Digital Technologies: A Translational Approach to Support Aging-in-Place for Rural African-Americans with Alzheimer's Disease and their Care Partners</i>	National Institute on Aging (NIA)/NIH	734,372
Darla Moore School of Business					
	Moore Sch - Div. of Research				
		<i>Von Nessen, Joseph</i>	<i>SC Quantum: Economic Impact Analysis</i>	SC Quantum	40,000
Molinaroli College of Engineering & Computing					
	Civil & Environmental Eng.				
		<i>Hoque, Shamia</i>	<i>Elucidating Mechanistic Processes Governing Interaction of Viruses With Non-biological Indoor Built Surfaces</i>	National Science Foundation (NSF)	398,481
		<i>Qian, Yu</i>	<i>Testing Tensar Geogrid in Railroad Ballast in Track Bed</i>	Tensar Corporation, a division of CMC	50,000
	Electrical Engineering				
		<i>Chandrashekhar, MVS</i>	<i>Phase I SBIR: SiC Low Gain Avalanche Diode (LGAD) for Minimum Ionization Particle (MIP) Sensors</i>	Structured Materials Industries/DOE	61,870
		<i>Mandal, Krishna</i>	<i>Self-powered SiC based photon counting detector for scintillator readout replacing SiPM</i>	Battelle Savannah River Alliance (BSRA)/DOE	210,000
			<i>Novel 4H-SiC MOS Devices for Self-Biased High-Efficiency Radiovoltaic Batteries</i>	National Science Foundation (NSF)	448,491
	Eng. & Computing Dean's Office				
		<i>Gaillard, Jay</i>	<i>Decarbonizing Light Olefin Production using Advanced Electromagnetic Reactors</i>	RAPID Manufacturing Institute/AICHe/DOE	1,356,776
	Mechanical Engineering				
		<i>Banerjee, Sourav</i>	<i>Feasibility Study on Thickness Measurement on Wet Coating During Curing-- Fraunhofer Project -- Rolls Royce Portion</i>	Rolls Royce	61,500
		<i>Ling, Yue (Stanley)</i>	<i>Characterizing the effects of droplet deformation and breakup on the interaction between rain drops and aerodynamic surfaces</i>	U.S. Army Contracting Command/DOD	470,205
Research, Vice President for					
	Office Research - General				
		<i>Barlow, Shayne</i>	<i>Provision of animal procurement and husbandry for the Dorn VA Medical Center</i>	US Department of Veterans Affairs	836,603
School of Medicine					
	Basic Science Research				

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		<i>Spinale, Francis</i>	<i>Center for Clinical and Translational Research at USC (CLINTRUSC) - Admin Core</i>	National Institute of General Medical Sciences (NIGMS)/NIH	10,869,822
	MDC Ctr Disability Resources				
		<i>Rotholz, David</i>	<i>Training Programs and Technical Assistance for Staff</i>	SC Department of Disabilities and Special Needs (SC DDSN)	650,028
			<i>Provision and Training and Certification for Self-Directed Attendant Care for ID/DD and HASCI Waiver Participants</i>	SC Department of Disabilities and Special Needs	225,000
	Pharm., Physiology & Neuroscience				
		<i>Reagan, Lawrence</i>	<i>IPA for Jayshree Rehm</i>	WJB Dorn VA Medical Center/VA	48,509
		<i>Wood, Susan</i>	<i>IPA: Lawrence Reagan - Neural regulation of susceptibility to hyperarousal</i>	WJB Dorn VA Medical Center/VA	14,260
			<i>IPA: Fiona Hollis - Neural regulation of susceptibility to hyperarousal</i>	WJB Dorn VA Medical Center/VA	23,573
School of Medicine (Grvl)					
	Medicine Greenville				
		<i>Williams, Jameka</i>	<i>Medical Education for Social Justice: Enhancing Equity through a Longitudinal Inclusive Excellence Certificate Program</i>	American Medical Association (AMA)	40,000
University Libraries					
	Univ Libraries - Dean's Office				
		<i>Britton, Jeanne</i>	<i>Performing Black British History</i>	Gladys Krieble Delmas Foundation	12,000
		<i>Curro, Daniela</i>	<i>Vision and Ambition: William Fox and his Fox Film Corporation as seen through Fox newsreel outtakes, 1920-1929</i>	National Film Preservation Foundation (NFPF)	31,400
University of SC Beaufort					
	BFT Natural Sciences				
		<i>Pettay, Daniel</i>	<i>Determining bacteria and turbidity sources to inform management and outreach across the Edisto Island Watershed.</i>	Clemson University/SC Sea Grant Consortium/DOC/NOAA	51,558
University of SC Lancaster					
	LAN PALMETTO COLLEGE				
		<i>Criswell, Stephen</i>	<i>Native American Drumming Performance Series</i>	SC Arts Commission	5,000
University of SC Upstate					
	UPS Academic Affairs Admin				
		<i>Waldrop, Susannah</i>	<i>Avanzando Through College 2024-25</i>	UnidosUS	14,200
	UPS Achieve				

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		<i>Marshall, Elaine</i>	<i>USC Upstate ACHIEVE 2024-25</i>	Upstate Workforce Board/DOL	523,293
	UPS Natural Sciences & Eng				
		<i>Shorter, Kimberly</i>	<i>In Vitro Identification of miR-718 targets and miR-718-induced epigenetic modifications</i>	National Institute of General Medical Sciences (NIGMS)/NIH	517,500