

University of South Carolina — June 2025 New Grant Awards Report

PI's College	PI's Department	PI Name	Award Title	Sponsoring Agency	Award Total
Arnold School of Public Health					
	Applied Research & Evaluation (CARE)				
		Pope, Holly	The Ryan White/HIV Oral Health Initiative (RWOHI)	SC Department of Public Health (SCDPH)	\$ 90,000
		Workman, Lauren	SC MIECHV FY24 Coordinated State Evaluation (2024-2026)	Children's Trust of South Carolina/HRSA	\$ 171,042
	Epidemiology & Biostatistics				
		Liu, Jihong	University of South Carolina School of Public Health Maternal and Child Health Catalyst Program	Health Resources & Services Administration (HRSA)/HHS	\$ 674,995
	Exercise Science				
		Winkelmann, Zachary	(PI - Amanda Ervin) - An Evaluation of Mental Health Outcomes in Collegiate Club Sport Athletes	NATA Research & Education Foundation	\$ 1,000
		Yeargin, Susan	(PI - Tina [Shiting] Xie) - Exploring Prompts on NCAA Student-Athlete Preparticipation Physical Evaluations and Health History Forms	NATA Research & Education Foundation	\$ 1,000
College of Education					
	Physical Education				
		Stodden, David	(GSR Grant PI: Ozgur Altintas) Assessment for Physical Education (PE) in K-12 Educational Settings: A Cross-Sectional Study	North American Society for the Psychology of Sport and Physical Activity (NASPSPA)	\$ 1,742
	Teacher Education				
		Muller, Meir	Building Bridges of Character: Black and Jewish Dialogues on Justice, Empathy, and Courage	Wake Forest University/Lilly Endowment, Inc.	\$ 48,116
College of Nursing					
	Biobehavioral Health & Nursing Science				
		Scott, Jewel	An Exploration of the Healthcare Experiences and Self-Advocacy of Black Women and Birthing People	SC Clinical & Translational Research (SCTR) Institute - MUSC	\$ 9,998
College of Pharmacy					
	Pharm - Clin Pharm & Outcomes Sciences				
		Love, Bryan	Survey of Digoxin Utilization and Therapeutic Drug Monitoring in Adult Patients Receiving Continuous Renal Replacement Therapy	Prisma Health Midlands/Carolina Virginias Chapter of the Society of Critical Care Medicine	\$ 3,247
College of Social Work					

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	Social Work - Dean's Office				
		Wolfer, Terry	Dilemmas in Social Work Practice	Council on Social Work Education - Kendall Institute for International Social Work Education	\$ 10,000
Darla Moore School of Business					
	Moore Sch - Dean's Office				
		Cecchini, Mark	Updated Competency Management System Project Plan	Battelle Savannah River Alliance, LLC (BSRA)/DOE	\$ 19,472
	Moore Sch - Div. of Research				
		Von Nessen, Joseph	REV Federal Credit Union: 2025 Economic Impact Analysis	REV Federal Credit Union	\$ 58,700
McCausland College of Arts and Sciences					
	Biological Sciences				
		LoPresti, Eric	(PI - Sierra Jaeger) Population demography of the last populations of the Yellowstone sand verbena (<i>Abronia ammophila</i>)	University of Wyoming/NPS/DOI	\$ 10,000
	Chemistry & Biochemistry				
		Shimizu, Linda	Functional Nanotubes from Self-Assembling Bis-Urea Macrocycles	National Science Foundation (NSF)	\$ 681,168
	History				
		Elfenbein, Jessica	When the World's Largest Barrel Manufacturer Called Georgetown Home: Brooklyn Cooperage, 1920-1927	The Belle W. Baruch Foundation	\$ 5,000
	Mathematics				
		Zhang, Haonan	Conference: Connections between Commutative and Non-Commutative Harmonic Analysis	National Science Foundation (NSF)	\$ 16,000
			Fourier analysis on quantum systems and applications	National Science Foundation (NSF)	\$ 171,227
	Physics & Astronomy				
		Kulkarni, Varsha	STIS-ISM: STIS ISM Survey in the Milky Way	Space Telescope Science Institute (STScI)/NASA	\$ 35,000
			Analyzing Galaxy Evolution and Star Formation via the Circumgalactic Medium	College of Charleston/SC Space Grant Consortium/NASA	\$ 16,000
			Mapping the Baryon Cycle In and Around Galaxies Through Cosmic Time	National Aeronautics & Space Administration (NASA)	\$ 558,273
		Tedeschi, David	Search for Physics Beyond the Standard Model with Muon Experiments	Universities Research Association (URA)	\$ 10,000
	Psychology				
		Bradshaw, Jessica	(PI - Julia Yurkovic-Harding) The Role of Infant Physiology on Dyadic Coordination and Social Communication in the Emergence of ASD	National Institute of Mental Health (NIMH)/NIH	\$ 159,560

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		Harrison, Sayward	Integrated Care for Recovery (I-CaRe) Center - Graduate Psychology Education Program	Health Resources & Services Administration (HRSA)/HHS	\$ 1,350,000
	School of Earth, Ocean & Env.				
		Bulusu, Subrahmanyam	Mesoscale and Submesoscale Eddy Dynamics from SWOT and PACE Missions in the Gulf of Mexico	College of Charleston/SC Space Grant Consortium/NASA	\$ 35,000
Molinaroli College of Engineering & Computing					
	Chemical Engineering				
		Sadati, Monirosadat	Leveraging Liquid Crystals to Engineer 3D-Ordered Ion Pathways in Structural Solid Polymer Electrolytes for Multi-functional Aviation	College of Charleston/SC Space Grant Consortium/NASA	\$ 35,000
		Shimpalee, Sirivatch	Electromagnetic-Assisted Electrochemical Conversion of CO2 to High Value Chemicals	Battelle Savannah River Alliance, LLC (BSRA)/SRNL/DOE	\$ 435,787
	Computer Science & Engineering				
		O'Reilly, Christian	Multiscale Model-Driven Analysis of the Brain and its Disorders	National Science Foundation (NSF)	\$ 606,164
	Electrical Engineering				
		Khan, Asif	Lateral III-N Power Switches	Analog Devices, Inc/NSTXL/DOD	\$ 500,000
	Mechanical Engineering				
		Besmann, Theodore	Befesa Zinc US Material Samples	Befesa Zinc US Inc.	\$ 21,961
		Downey, Austin	(PI - Thienan_Hoang) Real-Time In-Situ Ultrasonic and Multi-Modal Monitoring for Quality Control in Laser Powder Bed Fusion Additive Manufacturing	College of Charleston/SC Space Grant Consortium/NASA	\$ 4,000
		Huang, Xinyu	Multi-Channel Ultra-Precision Battery Testing System	SC EPSCOR	\$ 49,998
		Sockalingam, Subraman	Understanding Damage Mechanics in Advanced Fiber-Reinforced Composite Materials via Digital Image Correlation and Discontinuous Finite Element Method	National Science Foundation (NSF)	\$ 600,000
		Wang, Yi	PIVAI: Advancing Smart Pavement Inspection toward Commercialization	SC Research Authority (SCRA)	\$ 15,000
			I-Corps: Translation Potential of Stress Monitoring for Maternity Using a Physiological Sensor Wearable Device	National Science Foundation (NSF)	\$ 50,000
School of Medicine					
	Cardiovascular Translational Research Center				

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		Phillips, Mollie	Novel Gene Exploration in Post-Sepsis Pulmonary Vascular Repair	American Heart Association (AHA)	\$ 69,548
	Internal Medicine				
		MacInnis, Elizabeth	NICHE-MED Project	American Academy of Developmental Medicine & Dentistry (AADMD)	\$ 15,000
		Rahemtullah, Omme-Sa	Partner Site Delivery Program (Columbia CDBG)	SC Research Foundation (SCRF)/City of Columbia	\$ 162,038
			Pivoting the FoodShare Statewide and Community-Centered Food Distribution Network to a Regional and Encompassing Approach	SC Research Foundation (SCRF)/BCBS of SC Foundation	\$ 2,325,000
	MDC Undergraduate Medical Educ				
		Rhinehart, Robert	Finding Your Future	SC Center for Rural and Primary Healthcare/SCDHHS	\$ 40,750
	Path, Microbio. & Immunology				
		Kubinak, Jason	(PI - Ryan Ball) Influence of maternal IgA on neonatal iNKT cell development and gluten sensitive enteropathy	National Institute of Allergy and Infectious Diseases (NIAID)/NIH	\$ 123,642
	Pharm., Physiology & Neuroscience				
		Jasnow, Aaron	A Seasonal Switch: Alternative Neuroendocrine Mechanisms Regulating Aggression	Indiana University/NIH	\$ 322,527
		Wilson, Marlene	VA Contract-Animal Sleep Study Services	US Department of Veterans Affairs (VA)	\$ 235,725
School of Music					
	Music				
		Grgic, Mak	Summer Arts Education Project Grant	SC Arts Commission	\$ 11,250
University of SC Aiken					
	AK Mathematical Sciences				
		Paul, Titan	Ionic liquids-based nanofluids as heat transfer fluids-An assessment for Solar Thermal Energy (STE) Systems	College of Charleston/SC Space Grant Consortium/NASA	\$ 35,000
			ERI: Controlling Flow Boiling Instability in Divergent Microchannel Utilizing Secondary Flow	National Science Foundation (NSF)	\$ 199,999
University of SC Beaufort					
	BFT Natural Sciences				
		Pettay, Daniel	Acquisition of Fluorometric Equipment to Expand Educational and Applied Research Experiences at USC Beaufort	SC EPSCoR	\$ 42,930
University of SC Union					

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	UN PALMETTO COLLEGE				
		Conley, Carolyn	Dollar General Summer Literacy	Dollar General Literacy Foundation	\$ 3,000
University of SC Upstate					
	UPS Natural Sciences & Eng				
		Pilgrim, Melissa	Melissa Pilgrim IPA to NSF 2024-25	National Science Foundation (NSF)	\$ 286,353
	UPS Soc CJ Women St				
		Haney, Breanna	Microsoft Justice Reform Initiative (JRI) grant project	Simsi, Inc.	\$ 30,000