

Academic Senate Committee on Research Faculty Grant Recipients 2023

PI	Co-PI	Project Title	Originating/Lead School	Amount Funded
David Strubbe	—	New approach to calculate excited states of defects for quantum computing	SNS	\$7,380.68
Fan Jia	—	A Shiny App for Searching for Efficient Designs in Developmental Sciences	SSHA	\$6,230.68
Weisong Gao	—	Intimate Waters: A Queer Ecological Inquiry of Asian Diaspora	SSHA	\$7,380.68
Henrik R. Larsson	—	Unraveling Attosecond Molecular Charge Migration by Quantum Dynamics Simulations using Novel Quantum Simulation Tools	SNS	\$7,380.68
Andrea Merg	—	Engineering Porous 3D Frameworks from Multivalent Peptide Macrocycles	SNS	\$7,380.68
Rebeca Arevalo	—	Discovery of sustainable catalysts for C(sp ³)-C(sp ³) bond functionalization	SNS	\$7,380.68
Briana Ballis	Andrew Johnston	Parental Divorce, Death, Incarceration and their effects on Child Achievement	SSHA	\$14,880.68
David Noelle	Rachel Ryskin	The Role of Prefrontal Cortex in Predictive Sentence Processing	SSHA	\$14,880.68
Tao Ye	—	Synthesis of Quantum Dot Artificial Molecules with Designer Geometries	SNS	\$7,380.68
Jay Sharping	Raymond Chiao	A spectroscopic test of the scalar Aharanov-Bohm effect in a Faraday Cage	SNS	\$14,809.08
Emily Moran	—	The genetics of climate responses in <i>Abies religiosa</i> – a vital species for monarch butterfly conservation	SNS	\$7,380.68
YangQuan Chen	—	Soil carbon smart sensing module using VIS-NIR spectrometry enabled by explainable artificial intelligence Internet of Things (XAIoT) technology	SoE	\$7,380.68

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Kinjal Dasbiswas	Ajay Gopinathan	Chiral active chains	SNS	\$14,880.68
Min Hwan Lee	—	Long-term high-temperature electrochemical cell test station	SoE	\$7,380.68
Stephen Wooding	—	Genetic diversity and natural selection in cassava, a key Amazonian crop	SSHA	\$7,380.68
Berцем Dutagaci	—	Molecular Dynamics Simulations of RNA Polymerase II C-terminal Domain in Concentrated Solutions	SNS	\$7,380.68
Katrina Hoyer	—	Microbiota protection from Coccidioides infection (Valley fever)	SNS	\$7,380.68
Nestor Oviedo	—	Analysis of Cellular Transformation During Tissue Renewal	SNS	\$7,380.68
Mai-Linh Hong	—	Perilous Telling: Story in the Shadow of the Refugee Regime (book manuscript development)	SSHA	\$7,555.18
Holley Moyes	—	Photogrammetry in Heritage Preservation	SSHA	\$7,363.68
Carolyn Jennings	Angelo Kyrilov	Data on Graduate Student Experience and Employment in Philosophy	SSHA	\$14,190.56
Tanya Golash-Boza	—	Real Estate Speculation in Brightwood Park, DC	SSHA	\$7,360.68
Michael Dawson	—	Cardinal Rules for Conservation	SNS	\$6,852.68
Sachin Goyal	Christian Fons-Rosen	Prosthetic Leg Design, Adoption and its Impact on Well-Being	SoE	\$14,880.68
David Kaminsky	—	Racial Politics of Swing, Blues, and Fusion Dancing	SSHA	\$7,379.68
Beth Scaffidi	—	Resource-Driven Migration and State Collapse: A Case Study of Resource Management and Well-being in Times of Post-Wari Era Climate Stress (ca. 1000-1432 CE)	SSHA	\$7,379.68

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Dustin Kleckner	—	Fluid Dynamics of Low Reynolds Number Wings	SNS	\$7,380.68
Rowena Gray	—	Rent and the City	SSHA	\$5,880.68
Michael Cleary	Gordon Bennett	Genome and Microbiome Diversity in Novel Domesticated Strains of Black Soldier Fly	SNS	\$14,880.68
Stefan C. Materna	Stephanie Woo	Tell me where you come from and I'll tell you where you'll go: linking cell migration to cell fate in embryonic development of the gastrointestinal tract	SNS	\$14,880.68
Ramendra Saha	—	A study of BAF complex functions in neurons using novel inhibitor '704'.	SNS	\$7,380.68