

2020-2021 AAUP University Research Grants

Last Name	First Name	Department	Grant Title	Amount Funded	Co-PI
Abadiano	Helen	Literacy, Elementary, and Early Childhood Education	Program Completers' Impact on P-12 Student Learning	\$5,000.00	
Abbas	Syed	Biology	Does prolonged exposure to blue light cause aggression in female crayfish?	\$5,000.00	
Albayram	Yusuf	Computer Science	Investigating the effectiveness of personalized cybersecurity education	\$5,000.00	
Barr	Burlin	English	Fragments from a Discourse on Masculinity	\$5,000.00	
Barrington	Candace	English	Watching the Watcher: John Lydgate's "The Temple of Glas"	\$2,500.00	

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Barriteau Phaire	Candace	Literacy, Elementary and Early Childhood Education	Educating in Emergencies: What can early childhood educators learn from the classrooms that never closed during the Covid-19 pandemic?	\$4,090.00	
Bragg	Caleb	Psychological Science	Work-Family Balance Intervention Through Family Goal Setting	\$3,200.00	
Bray	Alicia	Biology	Invasive Japanese Beetle Management with Tiphia Wasps in Connecticut	\$5,000.00	
Burkholder	Thomas	Chemistry and Biochemistry	The Role of Race, Gender, and Preparation on Student Learning in General Chemistry	\$5,150.00	Maurer, Sarah
Chakraborty	Sourav	Chemistry and Biochemistry	Determination of pheromones such as heneicosane, tricosane and pentacosane using solid phase micro-extraction (SPME) coupled with hyphenated mass spectrometry techniques (LC-MSn and GC-MS)	\$4,826.00	
Chase	Daniel	Biomolecular Sciences	Subcellular localization of dopamine receptors DOP-1 and DOP-3 in the DA9 neuron of <i>C. elegans</i>	\$5,000.00	

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Chen	Sixia	Computer Science	Fixing Reordering Anomalies in CRDTs for Collaborative Text Editing	\$4,500.00	
Cohen	Diana	Political Science	Wheels of Change: Women's Cycling on the International Stage	\$3,762.00	
Crundwell	Guy	Chemistry and Biochemistry	Palladium complex formation with heterocyclic aromatic ligands - How studying stable palladium-ligand intermediates can help us understand the degradation of commercial palladium catalysts over time	\$4,953.00	
Dharavath	Haji Naik	Computer Electronics & Graphics Technology	G7 Master Compliance through a Color Managed Digital Printing Workflow (CMDPW)	\$5,000.00	
Dowling	Robert	English	A Place in Time: The Life and Work of Sam Shepard	\$5,000.00	
Edwards	Jessica	Literacy, Elementary and Early Childhood Education	Using Diverse Picture Books to Strengthen Social and Emotional Skills	\$1,600.00	

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Efremoff	Theodore	Art	Sowing the Tempest: Seeds of Change in Climate Fact and Myth	\$5,000.00	
Flinn	Brian	Art	Digital Landscapes	\$3,250.00	
Garbovskiy	Yuriy	Physics & Engineering Physics	Modeling and Measuring Ionic Phenomena in Liquid Crystal Materials	\$5,000.00	
Gilmore	Susan	English	"Language of the Unheard": Riot on the American Cultural Stage	\$2,500.00	
Goh	Tan Leng	Physical Education and Human Performance	The Effects of Before School Physical Activity on Social and Emotional Learning, Physical Fitness and Physical Activity	\$10,000.00	Leong, Chee Hoi
Gotchev	Ivan	Mathematical Sciences	Cardinal Functions on T1-topological Spaces	\$5,000.00	

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Gu	Shijie	Mathematics	On Z-compactifiability of manifolds	\$5,000.00	
Halkin	Sylvia	Biology	Changes over Time and Space in the Song Repertoires of Northern Cardinals, "Cardinalis cardinalis"	\$3,000.00	
Hammad	Khaled	Engineering	Inflow Conditions and the Flow Behavior of Submerged Annular Viscoplastic Jets	\$5,000.00	
Hapeman	Paul	Biology	Assessment of Methods for Detecting Everglades Mink (<i>Neovison vison evergladensis</i>) in Fakahatchee Strand State Preserve	\$5,000.00	
Hartwig	Heidi	English	Tracing Conversion in the Notebooks, Journals, and Novels of J.-K. Huysmans	\$5,000.00	
Hoopengardner	Barry	Biomolecular Sciences	RNA editing as a character for phylogenetic relationships in velvet worms	\$4,800.00	

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Hughes	Heidi	Management & Organization	Generation Z: Workplace values, attitudes, experiences and expectations	\$3,500.00	
Johnson	Steven	Engineering	Analysis of the Surface Oxide Layer on Light Metal Alloy Powders Towards Enhanced Powder Consolidation	\$5,000.00	
Kim	Eunhye Grace	Geography	Creative MICE (Meetings, Incentives, Conventions/conferences, and Exhibitions) Tourism: Building Synergies with Cultural Heritage Tourism	\$4,999.00	
King	Thomas	Biomolecular Sciences	Making a genetic assignment for the spontaneous "squiggle tail" (squig) mutation in mice	\$5,000.00	
Kurkovsky	Stan	Computer Science	Cross-Platform Mobile Application Development: Frameworks and Analysis	\$5,000.00	
Kusaila	Michelle	Accounting	Corporate Social Responsibility and Juror Auditor Liability Decisions	\$5,000.00	Weinberger, Andrew

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Liu	Yan	Educational Leadership, Policy and Instructional Technology	School Principal Qualifications, Leadership Emphases, and School Outcomes: A Lens of Educational Equity	\$5,000.00	
Maurer	Sarah	Chemistry and Biochemistry	Condensation of amino acids and alcohols to form primitive cell membranes for the origins of life	\$4,640.00	
Melendez-Rhodes	Tatiana	Counselor Education and Family Therapy	Comparison of relationship quality of couples who are married and couples who cohabit	\$3,900.00	
Meng	Yunliang	Geography	COVID-19 Death Rates and County Subdivision Level Contextual Characteristics: A Connecticut Case Study	\$3,000.00	
Merenstein	Beth	Sociology	Implementing Curriculum: How Race and Racism are Taught in History Classes	\$4,934.00	
Mitrano	John	Sociology	American Indians and Route 66: Collecting the Stories of The Mother Road's Indigenous People	\$4,150.00	

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Naoumov	Viatcheslav	Engineering	Hybrid Propellant Rocket Engine Test Facility Upgrade, Improvement of the Technology of Temperature Measurements and Fabrication of Solid Propellant Grains and Study of the Combustion of Papaffine-Based Fuel at Wide Range of the Equivalence Ratios	\$4,931.00	
Olson	Elizabeth	English	Embedded Access: Using Course Structure to Benefit Students with Disabilities in Composition Courses	\$2,500.00	
Park	Sangho	Computer Electronics and Graphics Technology	Sensor-based Intelligence for Smart Environment	\$4,850.00	
Patterson	Yvonne	Social Work	Examining Cultural Relevance in Baccalaureate Social Work Education	\$2,500.00	
Penniman	Clayton	Biology	Temporal, Spatial, and Life Stage Variability in Community Physiological Profiles of Heterotrophic Prokaryotes in the Biofilm Attached to the Thalli of "Fucus vesiculosus", an Ecologically Important Mid-Intertidal Brown Seaweed	\$5,000.00	

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Perdomo	Oscar	Mathematical Sciences	Search for new periodic solutions of the n-body problem	\$10,000.00	Castaneda, Nelson
Pope	Cynthia	Geography	The Gendered Impacts of COVID-19 in Belize, Central America	\$5,000.00	
Potter	Christopher	Biology	Development of a C3H/HeJ mouse model colony and associated laboratory technologies needed to conduct clinical studies in the treatment of Alopecia Areata	\$5,000.00	
Reeder	Linda	Manufacturing & Construction Management	Mary Colter's Design Processes and Construction Techniques	\$2,035.00	
Saha	Krishna	Mathematical Sciences	Testing the Equality of the Risk Difference in the Analysis of Correlated Binary Data	\$5,000.00	
Sharma	Nimmi	Physics and Engineering Physics	Illuminating Atmospheric Dynamics and Aerosol Transport with Lasers	\$5,000.00	

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Singh	Gurbakhshash	Mathematical Sciences	Extending Log-Binomial Model and Log Cumulative Probability Model for correlated data	\$5,000.00	
Smith	Jessica	Biomolecular Sciences	Mechanisms of Extracellular Electron Transfer by strains of "Geobacter sulfurreducens"	\$5,000.00	
Snyder	Jason	Marketing	Attack of the Podcasts: Assessing the Use of Humor in Podcast Ads	\$5,000.00	Cistulli, Mark
Sommers	Brian	Geography	World War II Memorialization as it is Impacted by Modern Balkan Politics	\$5,000.00	
Stewart	Alicia	Special Education & Interventions	Investigating Teacher Knowledge and Preparedness of Implementing Evidence-Based Reading Instruction Across Content Areas for Students with Inattention	\$2,500.00	
Takemae	Natsuko	Special Education & Interventions	Autobiographical Memory Study: Systematic Applications of Universal Design for Learning to Teacher Candidates' Reflective Cycle, Learning Process, and Embedded Support	\$7,500.00	Mackey, Megan and Foshay, John

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Westcott	Barry	Chemistry and Biochemistry	Molecular Structure of Models for Metal Impurities in Petroleum	\$4,975.00	
Wizevich	Michael	Geological Sciences	Tracing Sediment Sources for the Mesozoic Hartford Basin by Dating of Detrital Zircons	\$5,000.00	
Zalewski	Leanne	Art	Book Project: "American Women Shaping Art History: Late Nineteenth-Century Authors, Clara Erskine Clement and Clara Stranahan"	\$1,693.00	
Zalewski	Sarah	Counselor Education and Family Therapy	The experiences of burnout and self-care in school counseling students	\$7,900.00	Mason, Ikone and Donohue, Peg
Zlatareva	Neli	Computer Science	Building Natural Language to SPARQL Interfaces for Semantic Web Applications	\$4,000.00	