

2020-2021 AAUP Faculty Research Awards

Last Name	First Name	Department	Grant Title	Funded	CO-PI
Abbas	Syed	Biology	Modulation of cellular serotonin expression by blue light	\$4,500.00	
Alicea-Velazquez	Nilda	Chemistry & Biochemistry	Determining the basis of SHP-1 phosphatase ligand selectivity using structural approaches	\$5,000.00	
Amaya	Luz	Engineering	Optimization of Vertical Axis Wind Turbine with Solar Power	\$4,500.00	
Barrington	Candace	English	Faithless Love: Re-Reading Chaucer's The Canterbury Tales through Global Languages	\$2,250.00	
Barriteau Phaire	Candace	Literacy, Elementary, and Early Childhood Education	Early Childhood Competency Study: What Are the Priorities of Hiring Agencies and Are We Preparing Students to Meet Those Needs?	\$2,400.00	
Blitz	David	Philosophy	Bertrand Russell: Synthesis and Timeline of his Work	\$4,800.00	

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Bragg	Caleb	Psychological Science	Self-Control vs Conscientiousness: A meta-analytic examination	\$1,500.00	
Bray	Alicia	Biology	Invasive Japanese Beetle Management with Tiphia Wasps in Connecticut	\$4,500.00	
Broderick	David	Computer Electronics & Graphics Technology	Development and Validation of Requirements for Potable Water Generation in Disaster Recovery	\$5,000.00	
Chae	Myungjin	Manufacturing & Construction Management	Sick Building Syndrome (SBC) Control using Smart Building Technology	\$2,223.00	
Chae	Myungjin	Manufacturing & Construction Management	Automated and Real-Time Route Finding System for Flexible Bus System (FBS)	\$2,205.00	
Chakraborty	Sourav	Chemistry & Biochemistry	Phytochemical profiling, mineral content and nutritional value assessment of fruits of a rare South American plant <i>Jaltomata darcyana</i>	\$4,990.00	

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Chase	Daniel	Biomolecular Sciences	The subcellular localization and effect of DOP-2 receptor signaling on the excitability of the chemosensory neuron ASH in <i>C. elegans</i>	\$5,000.00	
Cohen	Diana	Political Science	Charging the Net: The Battle for Gender Equality in Professional Women's Ice Hockey	\$3,912.00	
Corbera Lopez	Silvia	Psychological Science	Validation of a new video-based emotion recognition task in children: the "Bell-Lysaker Emotion Recognition Task for Children (BLERT-K)"	\$5,000.00	
Crundwell	Guy	Chemistry & Biochemistry	Synthesis of asymmetric 2,3-dialkyl-5-methylquinoxalines- a study of configurational isomerism	\$4,063.00	
Davis	Michael	Biomolecular Sciences	Characterizing and Circumventing Bacteriophage Resistance in <i>Propionibacterium acnes</i>	\$4,920.00	

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Dhar	Paramita	Economics	Effect of Childhood Obesity on Absenteeism in school	\$3,150.00	
Dharavath	Haji Naik	Computer Electronics and Graphics Technology (CEGT)	Aiming for G7 Master Compliance through a Color Managed Workflow: Comparison of Compliance with Amplitude Modulated (AM) vs. Frequency Modulated (FM) Screening of Multicolor Digital Printing	\$4,500.00	
Dobbs-McAuliffe	Betsy	Biomolecular Sciences	Investigating thyroid hormone effects in the regenerating central nervous system	\$4,328.00	
Dowling	Robert	English	A Place in Time: The Life and Work of Sam Shepard	\$5,000.00	
Drew	Sally	Special Education and Interventions	Examination of Efficacy of the Writing in Science Notebook (WiS-N) Intervention to Improve Students' Argument Writing in Inclusive Middle School Science Classrooms	\$9,950.00	Jeff Thomas

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Efremoff	Ted	Art	A Refugee's Guide to Rome	\$5,000.00	
Garbovskiy	Yuriy	Physics & Engineering Physics	Establishing a Cutting-Edge Liquid Crystal Research Lab at CCSU	\$3,000.00	
Gichiru	Wangari	Educational Leadership, Policy and Instructional Technology	Critical Democratic Citizenship in Ethnically Diverse Spaces: A Qualitative Study of Pre-Service Teachers' Political Attitudes and Voting habits in General Elections in Kenya	\$5,000.00	
Gilmore	Susan	English	"Language of the Unheard": Riot on the American Cultural Stage	\$2,250.00	
Givens	Eugena	Criminology & Criminal Justice	The Impact of Witnessed Violence on Juvenile Delinquency Among Youth At-risk for Maltreatment	\$4,760.00	

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Gotchev	Ivan	Mathematical Sciences	On some results about cardinal inequalities for topological spaces	\$5,000.00	
Gu	Shijie	Mathematics	On the 5-dimensional Busemann conjecture	\$4,500.00	
Halkin	Sylvia	Biology	Changes over Time and Space in the Song Repertoires of Northern Cardinals, <i>Cardinalis cardinalis</i>	\$5,000.00	
Hammad	Khaled	Engineering	Influence of the Expansion Ratio and Yield-Stress Rheology on Suddenly Expanding Flows	\$4,500.00	
Hapeman	Paul	Biology	Occupancy Modeling, Detection, and Distribution of Fisher (<i>Pekania pennanti</i>) in Suitable Habitats of Connecticut	\$5,000.00	
Hartwig	Heidi	English	Tracing Conversion in the Notebooks, Journals, and Novels of J.-K. Huysmans	\$3,000.00	

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Hermes	Katherine	History	Indigenous Connecticut, 1550-1900: An Interactive Digital Resource	\$4,401.00	Sharon Clapp
Hoopengardner	Barry	Biomolecular Sciences	Tunicate RNA editing: a basal chordate model for RNA editing studies	\$4,374.00	
Johnson	Steven	Engineering	An Investigation into the Consolidation of Mg and Al Alloy Powders by Applying Solid and Transient Liquid State Methods	\$5,000.00	
Kapper	Martin	Biomolecular Sciences	Is the chaperone protein HSP-72 induced during high-salinity adaptation in the ribbed mussel?	\$4,813.00	
Kim	Eunhye Grace	Geography	Creative MICE (Meetings, Incentives, Conventions/conferences, and Exhibitions) Tourism: Building Synergies with Cultural Heritage Tourism	\$3,825.00	

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King	Thomas	Biomolecular Sciences	Do Heph11 variants require immunological "help" to mediate an in vivo allograft response?	\$5,000.00	
Kumar	Rati	Communication	A culture centered exploration of Rohingya health as lived experience in Hyderabad, India	\$5,000.00	
Kurkovsky	Stan	Computer Science	Effective Student Industrial Experiences in Undergraduate Computer Science Programs	\$4,500.00	
Lee	Byung	Criminology & Criminal Justice	Sexual Victimization in the Virtual World: An Application of Routine Activities Theory	\$4,510.00	Michelle Cubellis
Lee	Lee	Management & Organization	Change-oriented Leadership versus Administrative Leadership	\$2,700.00	

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Lim	Hyoun-Sook	Management & Organization	Does age increase or decrease creativity? The moderating effect of perceived organizational support	\$4,500.00	
Liu	Yan	Educational Leadership, Policy and Instructional Technology	How is teacher leadership implemented, and how it influences instructional quality in 48 countries?	\$4,500.00	
Marjani	Sadie	Biology	Methylation analysis of extracellular vesicle DNA from bovine IVF embryo spent culture media	\$5,000.00	
Maurer	Sarah	Chemistry & Biochemistry	Characterization of heterogenous prebiotic mixtures for the origins of life using FTIR and NMR	\$4,978.00	
McGrath	Kate	History	The Guthlac Roll: The Creation of a Warrior Saint in Post-Conquest England	\$5,000.00	

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Meng	Yunliang	Geography	Burglary Rates and Neighborhood Contextual Characteristics: A Case Study in Hartford, Connecticut	\$3,500.00	
Mione	Thomas	Biology	You Say Tomato, I say Jaltomata	\$4,145.00	
Mitchell	Damon	Criminology & Criminal Justice	Development of Gender-Informed Criminogenic Thinking Scales	\$5,000.00	
Mitrano	John	Sociology	Ethnic Identity Formation: The Role of Heritage Tourism	\$4,074.00	
Mulrooney	James	Biomolecular Sciences	Regulation of Actin Dynamics during Parietal Endoderm Migration	\$4,707.00	

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Naoumov	Viatcheslav	Engineering	Combustion of Bio-Derived Fuels in the Lab-Scale Hybrid Propellant Rocket Engine at the Increased Flow Rates of Oxidizer: Study of Combustion of Pure Bees Wax and Bees Wax Enriched with Aluminum Powder	\$4,467.00	
Oyewumi	Oluyinka	Geological Sciences	Geochemical Assessment of the impact of historical farmland on heavy metal pollution of drinking water supplies in Rocky Hill, CT	\$5,000.00	
Penniman	Clayton	Biology	Temporal, Spatial, and Life Stage Variability in Community Physiological Profiles of Heterotrophic Prokaryotes in the Biofilm Attached to the Thalli of <i>Chondrus crispus</i> , an Ecologically Important Lower Intertidal Red Seaweed	\$4,500.00	
Perdomo	Oscar	Mathematics	Quantum State Preparation	\$4,500.00	

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Pope-Portelinha	Cynthia	Geography	The Everyday Geographies of Caregiving: Youth experiences of caring for parents diagnosed with ALS (Lou Gehrig's Disease) in Connecticut	\$5,000.00	
Pozorski	Aimee	English	Representing Mental Illness: Allen Ginsberg's "Kaddish"	\$1,867.00	
Rodriguez	Heather	Sociology	The Social Reconstruction of Latino Identity in Protest Art (Arte Contestario)	\$5,000.00	
Rosete	Alfredo	Economics	Gentrification and Access to Care Work: Theory and Evidence	\$3,600.00	
Ruhs	Theodora	Journalism	Aging and Sexuality in the Press	\$10,000.00	Christina Barmon
Russell	Felice	Educational Leadership, Policy and Instructional Technology	Preparing Teachers for Linguistic Diversity through Critical Practice	\$2,250.00	

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Saha	Krishna	Mathematical Sciences	Methods for the Analysis of Multiple Endpoints Simultaneously in Reproductive and Development Toxicity Experiments	\$5,000.00	
Salama	Talat	Manufacturing & Construction Management	Concrete Mixture Design using Volcanic Ash for Bridge Construction	\$5,000.00	
Schenck	Samantha	Economics	The Impact of Corruption on Entrepreneurship and Innovation in Ukraine	\$4,939.00	Carlos Liard-Muriente
Sharma	Nimmi	Physics & Engineering Physics	Laser Measurements of Aerosol Optical Depth	\$5,000.00	
Shen	Xiaoping	Geography	China's Geography: Globalization and the Dynamics of Political, Economic, and Social Change	\$3,000.00	
Singh	Gurbakhshash	Mathematical Sciences	Comparing odds and probabilities as measures of risk for certain generalized linear models	\$4,500.00	

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Singhal	Rahul	Physics & Engineering Physics	Synthesis and study of the electrochemical behavior of ternary metal oxide for supercapacitor applications	\$6,000.00	Peter LeMaire
Siporin	Rachel	Art	Conversations/Artists and Innovators: Color Etchings and Monotypes	\$5,000.00	
Smith	Jessica	Biomolecular Sciences	Uncovering the Role of a Type Six Secretion System Involved in Direct Interspecies Electron Transfer between Geobacter Species	\$4,500.00	
Soper	Carolyne	Economics	"Community Partner Involvement in the Assessment of Service Learning: A Case Study in the Economics of Social Issues"	\$990.00	
Takemae	Natsuko	Special Education and Interventions	International Research on Universal Design for Learning: Embedding Natural Learning Support for Students Through Systematic Frameworks	\$9,830.00	Joan Nicoll-Senft

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Valerie	Lynda	Literacy, Elementary and Early Childhood Education	Effect of Permission to Play with Language Model on Student Writing: Motivation, Word Choice and Voice	\$5,400.00	Steven Ostrowski
Warshauer	Matthew	History	9/11 Generation	\$5,000.00	
Westcott	Barry	Chemistry & Biochemistry	First row transition-metal complexes with a novel β -diketonate	\$4,500.00	
Wizevich	Michael	Geological Sciences	Investigating the Cedar Mountain Formation, East-Central Utah: Implications for Salt Tectonics, Megafans, Preservation of Dinosaur Tracks, and the Discovery of Life on Mars	\$5,000.00	
York	Cassandra	Physical Education and Human Performance	The effect of a low FODMAP diet on gastrointestinal disruption, exercise ability, and mental health in healthy athletic college students	\$4,879.00	

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Zadi	Samuel	Modern Languages	The title of the paper I will write is, "African Solidarity: Myth or Reality? A Study of Camara Laye's <i>L'Enfant Noir</i> (1947) and Fatou Diome's <i>Le Ventre de l'Atlantique</i> (2003)."	\$2,480.00	
Zalewski	Leanne	Art	Princess Mathilde: Forgotten Artist	\$5,000.00	
Zhou	Bin	Engineering	Incremental Analysis of Pre-college Outreach Programs	\$4,500.00	