

2019-2020 Internal Grants Comprehensive Listing

AAUP University Research, Faculty-Student Research, Faculty Development, PT Faculty Development, Curriculum Development

Department	Faculty	Award	Title
AAUP University Research		Total Awarded	\$313,156
Art			
	Ted Efremoff	\$5,000	A Refugee's Guide to Rome
Biology			
	Syed Abbas	\$5,000	Modulation of anxiety and aggression by blue light
	Alicia Bray	\$2,570	Assessment of Diversity and Population Density of Arthropod Vectors with Risk Assessment to the Central Connecticut Community
	Alicia Bray	\$2,430	Evaluation of Southern Pine Beetle Establishment and Range Expansion into Connecticut, year two of field work
	Paul Hapeman	\$4,217	Assessing the Performance of a Simplified Camera Survey Protocol for Detecting Presence of American Marten (<i>Martes americana</i>) in Pre-Harvest Areas of the Green Mountain National Forest in Vermont
	Sylvia Halkin	\$350	Cache-moving Behavior of Eastern Gray Squirrels
	Mark Jackson	\$5,000	Characterization of short-term actions of serotonin on the membrane potential of crayfish photoreceptors
	Sadie Marjani	\$4,980	Transcriptome profiling of human IVF embryo spent culture media by RNA-seq
	Thomas Mione	\$2,956	Wild Relatives of the Tomato
	Barbara Nicholson	\$4,949	An investigation of detoxification enzyme glutathione-S-transferase production and activity in naturalized and invasive earthworms
	Sourav Chakraborty Nilda Alicea-Velazquez		
	Clayton Penniman	\$3,500	Effects of Salinization from Road Deicing Runoff on the Community Physiological Profiles of Heterotrophic Prokaryotes in the Stream Periphyton Community

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Biomolecular Sciences			
	Daniel Chase	\$5,000	Defining the expression pattern of all dopamine receptors in <i>C. elegans</i>
	Michael Davis	\$4,884	Newly Effective Therapies for <i>P. Aeruginosa</i> Infections
	Betsy Dobbs-McAuliffe	\$5,000	Rescuing defects associated with fetal alcohol spectrum disorder with N-acetylcysteine using zebrafish as a model system
	Barry Hoopengardner	\$3,318	RNA editing in house spiders: a model for chelicerate RNA processing
	Martin Kapper	\$8,500	Biochemical characterization of Heph11; a multi-copper ferroxidase that is the basis of two, independent “curly whiskers” mutations in mice
	Thomas King		
	James Mulrooney	\$3,316	The Role of PI3K in Actin Dynamics and Lamellipodia Formation
Chemistry & Biochemistry			
	Nilda Alicea-Velazquez	\$5,000	Determining the basis of SHP-1 phosphatase ligand selectivity using structural approaches
	Sourav Chakraborty	\$4,975	Formulation and characterization of novel bioactive materials for root canal treatment
	Steven Johnson		
	Guy Crundwell	\$4,457	The synthesis, characterization, and structure determination of several novel aliphatic quinoxalines and pyridopyrazines
	Sarah Maurer	\$3,500	In vitro selection and characterization of hydrophobic RNA
	Barry Westcott	\$3,395	Molecular Structure of Models for Vanadyl Impurities in Petroleum
Computer Electronics and Graphics Technology			
	Haji Dharavath	\$3,500	Effect of Substrate Properties (Brightness, Shade, and Whiteness) in the Color Reproduction of Multicolor Offset Printing in a Color Managed Workflow (CMW)

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	Sangho Park Xiaobing Hou	\$5,559	Distributed Mobile Vision-Sensor Network Deployable to Remote Scenes for Event Recognition
Computer Science			
	Sixia Chen	\$3,545	Gossip-assisted Multi-Channel Medium Access Control Protocols for Underwater Acoustic Networks
	Stan Kurkovsky	\$4,250	Effective Data Caching in Mobile Social Network Applications
Counselor Education and Family Therapy			
	Margaret Donohue	\$3,500	School-based Family Counseling 1962-2018: A scoping Review
	Tatiana Melendez-Rhodes	\$2,870	Comparison of relationship quality of couples who are married and couples who cohabitate
Criminology and Criminal Justice			
	Eugena Givens	\$4,960	An examination of peer relationships and juvenile delinquency
Economics			
	Christina Robinson Carlos Liard-Muriente	\$7,000	Immigration and the Northern Triangle
	Carolyn Soper	\$2,125	Transparency of the Federal Reserve, a force of stability or volatility in financial markets post 2008?
Educational Leadership, Policy & Instructional Technology			
	Pauline Wangari Gichiru	\$5,000	Paving the Path to Success: What Lessons can Kenya Learn From the Successful Inclusive Education in Rwanda?
	Jacob Werblow	\$4,250	Seikatsu kiroku and other Instructional Practices of Japan's Peace Educators in Promoting Greater Equity, Sustainability, and Peace

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Engineering			
	Swamy Basim	\$3,500	Stabilization of Expansive Soils Using Fly Ash
	Khaled Hammad	\$4,250	The Impact of Inflow Velocity Profile and Inertia on Suddenly Expanding Viscoplastic Flows
	Steven Johnson	\$3,500	3-D Investigation of the Structures and properties of Green and Sintered Powder Consolidates
	Viatcheslav Naoumov	\$4,924	Combustion of Pure and Enriched Bio-Derived Fuels in the Lab-Scale Hybrid Propellant Rocket Engine at the Increased Flow Rates of Oxidizer: Study of the Combustion of Bio-Derived Fuels Enriched by Aluminum Powder
	Fu-Shang Wei	\$3,500	Design and Test of a Full-Scale Helicopter Flight Simulator
	Bin Zhou	\$3,430	Statistical Analysis of Truck Crash Severity
English			
	Burlin Barr	\$3,500	Cinematic Masculinities
	Candace Barrington	\$5,000	Chaucer, Bohemia, and Prague: Tracing a 600-Year Conversation
	Mary Collins	\$3,434	Book Project: BRONZED: On the Road to Visit my Bronzed Relatives after the Violence in Charlottesville
	Robert Dowling	\$5,000	A Place in Time: The Life and Work of Sam Shepard
	Susan Gilmore	\$1,750	"Language of the Unheard": Riot on the American Culture Stage
	Heidi Hartwig	\$3,500	The Figure of the Convert in Muriel Spark's Novels
Geography			
	Timothy Garceau	\$1,895	A Comparative Assessment of Traffic Safety in Roundabouts within a New England Municipality
	Yunliang Meng	\$3,500	Schools near Toxic Sites: An Environmental Justice Study for Schoolchildren in Boston, MA

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	Cynthia Pope-Portelinha	\$5,000	A Stressful Exile: Comparative Acculturation Stress of Cuban and Venezuelan Refugees in Non-traditional Hosting Locations in the United States
	Brian Sommers	\$5,000	World War II Memorialization as it is impacted by Modern Balkan Politics
Geological Sciences			
	Michael Wizevich	\$5,000	Investigation of Late Triassic Dinosaur Trackways of the Eastern Alps, Switzerland
History			
	Katherine Hermes	\$3,256	Indigenous Connecticut, 1550-1900: An Interactive Digital Resource
	Matthew Warshauer	\$3,500	9/11 Generation
Library			
	Renata Vickrey	\$4,250	Determinants of Polish Pride - Ethnic Identity of Children of post- WWII Polish Immigrants to New Zealand
	Ewa Wolynska	\$4,150	Eliza Talcott, 1836-1911, Pioneer Missionary and Connecticut Original
Management & Organization			
	Sarah Stookey	\$3,500	Teaching Capitalism: A national network of students and teachers
Management Information Systems			
	Jason Snyder	\$5,600	The Influence of Leader-Follower Social Media Relationships on Work/School Outcomes
	Mark Cistulli		
Manufacturing and Construction Management			
	Namhun Lee	\$2,457	A conceptual Framework for Using Wearable Technology to Monitor Construction Workers' Stress for Construction Safety

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	Linda Reeder	\$4,250	Mary Colter's Design Processes and Construction Techniques
	Talat Salama	\$4,250	Experimental Evaluation of Strengthening Reinforced Concrete Beams Using CFRP Laminates
	Haoyu Wang	\$4,250	VR/Eye-Tracking Mediated Teleoperation of Dexterous and Legged Space Robots
Mathematical Sciences			
	Leah Frazee	\$4,300	The Configurations of Spatial Visualization and Spatial-Analytic Reasoning in Student Learning of Mathematics
	Ivan Gotchev	\$5,000	Cardinal Inequalities for $S(n)$ -spaces
	Shelly Jones	\$3,432	Culturally Relevant Pedagogy in Mathematics: Theory and Practice
	Krishna Saha	\$4,250	A Study on Inferential Methods for the Ratio of Two Success Rates in the Analysis of Clustered Binary Data with Application to Chemotherapy
	Gurbakhsh Singh	\$3,500	Statistical Inference in the Proportional Probability and Log Binomial Models
Physical Education & Human Performance			
	Tan Leng Goh	\$8,500	The Effects of Before School Physical Activity on Academic Performance and Social and Emotional Learning
	Carol Ciotto		
	Cassandra York	\$4,879	The effect of a low FODMAP diet on gastrointestinal disruption, exercise ability, and mental health in healthy athletic college students
Physics and Engineering Physics			
	Peter LeMaire	\$3,500	Study of Nsutite for supercapacitor applications
	Rahul Singhal		
	Nimmi Sharma	\$5,000	Laser Measurements of Pollution Particle Size Distributions

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	Rahul Singhal	\$3,500	Electrochemical characterization of MnO ₂ /carbon nanotube composites for applications to supercapacitors
Political Science			
	Diana Cohen	\$3,821	Vegas Born: Professional Hockey and the Quest for Identity in a Tourist City
Psychological Science			
	Rebecca Boncodd	\$3,493	Action and Gesture Training for Pre- and In-Service K-12 Mathematics Teachers
	Caleb Bragg	\$3,145	Social Contact and Careless Responding
Sociology			
	Charisse Levchak	\$5,000	Black Women's Lives: Overcoming Microaggressions and Macroaggressions
	John Mitrano	\$4,554	Heritage Tourism's Role in the Ethnic Identity Process
	Fiona Pearson	\$3,280	The Making of Politician: Woman, Culture, and Politics

Department	Faculty	Award	Title
Faculty - Student Research		Total Awarded	\$19,585
Art			
	Cassandra Broadus-Garcia	\$960	Industrially Inspired and Inspired by Industry: Exhibitions of Industrial Forms and Ceramic Artworks
	Angela Borges Georgia Exner		
Biology			
	Alicia Bray	\$500	Mosquito Biodiversity and Abundance in Wetland Areas of Hartford County, CT
	Shannon Garrick		
	Alicia Bray	\$500	The use of nematodes as an alternative pest removal for <i>Culex pipiens molestus</i>
	Kavya Suresh		
	Sadie Marjani	\$500	Whole Genome Analysis of Oxygen Concentration Effects on Methylation Markers During Early Embryonic Bovine Development
	Savannah Pare		
Biomolecular Sciences			
	Michael Davis	\$981	Determining the Rate and Type of Mutation Conferring Bacteriophage Resistance in the Opportunistic Bacterial Pathogen <i>Propionibacterium acnes</i>
	Nicholas Keegan Zachary Lane		
	Barry Hoopengardner	\$894	Gene expression in dopamine receptors in healthy mice and in response to Alzheimer's Disease
	Lindsey Wainright Emma Hintz		
	Thomas King	\$1,000	Importation and complementation testing of the Heph11Mtgx mouse mutant
	Kim-Tran Vo Ondine Fraher Meredith Noble		
	Thomas King	\$1,000	Do the Heph11cw and Heph11cw-2J mutations generate barriers to graft compatibility in mice?
	Juan Samuel-Constanzo Khalil Ragland		
	Jessica Smith	\$1,000	Uncovering mechanisms of direct metal/microbe iron corrosion
	Nicole Karpinski David Hernandez		

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Chemistry & Biochemistry	Sourav Chakraborty Michael Davis	\$500	Understanding metabolic fate of capsaicinoids and flavonoids in model bacteria - A study using liquid chromatography - tandem mass spectrometry
	Andrew Pilkons		
	Sarah Maurer	\$1,000	Characterizing biomolecules in oil phases to understand the possibility of life elsewhere in the universe
	Tanner Brault Brooke Thompson		
Counselor Education and Family Therapy			
	Peg Donohue	\$500	Redefining Optimal School Counselor to Student Ratio to Maximize Student Outcomes
	Kathryn Gallagher Goldberg		
Economics			
	Samantha Schenck	\$500	The Impact of College Major Choice on the Gender Wage Gap in Connecticut
	Caylee Short		
Engineering			
	Luz Amaya Brandon Broadhurst Joshua Cooper Janio Andrades	\$750	Evacuated Glass Tube Solar Water Distiller
	Luz Amaya David Broderick Peter LeMaire Abby McNab Gordon Perrett Jason Alvarez	\$1,000	Solar Panel Design to Maximize Efficiency
	Luz Amaya Peter Kootsookos Shaun Maynard Santos Santillan Alejandro Robles	\$1,000	Motorized Heat Shield for Cars
	Steven Johnson Dylan Goncalves	\$500	Processing and Analysis of Aluminum and Aluminum Alloy Powder Compacts

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	Viatcheslav Naoumov Nidal Al-Masoud	\$1,000	Hybrid Propellant Rocket Engine Project – Stage IX: Instrumentation System Upgrade and Study of Combustion of Bee's Wax and Paraffin in the Conditions of Oxidizer-Lean and Oxidizer-Rich Combustion
	Christopher Miller Luke D'Ascoli John Noble Megan Clarke Amadou Diane Corey Hutchinson Kevin Bielawski Adam Salama		
	Bin Zhou	\$1,000	Berlin Timber Bridge Research and Construction
	Harriette Shakeri Sanjivkumar Patel Phillip Izydorczak Michael Cermola		
Geography			
	Timothy Garceau	\$500	Developing a Campus Transportation Plan: Improving Access at Central Connecticut State University
	Caryn DeCrisanti		
	Timothy Garceau John Russell	\$500	Bikeshare Equity in New Haven, CT
	Cynthia Pope	\$500	Evaluating Usage and Users of the CTFastrak Multi-Use Trail
	Ryan Faulkner		
Geological Sciences			
	Michael Wizevich	\$500	Geochemical Analyses of Concretions within the Ruby Ranch Member of the Cedar Mountain Formation, East-Central Utah
	Lucas Brown		
Manufacturing and Construction Management			
	Haoyu Wang	\$1,000	Activating the Third Arm: Using Eye Tracking for Robotic Manual Control
	Joseph Smith Franklin Ceron		
Special Education & Interventions			
	Sally Drew	\$500	Investigating Response to Intervention (RtI) Implementation Integrity in Elementary Reading instruction in Connecticut's Schools
	Alicia Wetherbee		

Department	Faculty	Award	Title
Technology & Engineering Education			
	David Sianez	\$1,000	CNC Laser Cutter Research and Development Build
	Rheault Broderick Benjamin Dobbs James Iovanna		

Faculty Development			Total Awarded	\$60,456
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Anthropology

Ivan Small	\$1,826	Anthropological Engagements in the Economy
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Art

Cassandra Broadus-Garcia	\$789	MULTIVALENT: Clay, Mindfulness, and Memory - Attending the 2020 National Conference of Educators of Ceramics Arts (NCECA), Richmond, VA March 24-28, 2020
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Biology

Alicia Bray	\$2,800	Presentation of research findings on integrative pest management for wood-boring beetles in Connecticut and Tennessee nurseries
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Computer Electronics and Graphics Technology

Haji Dharavath	\$1,057	Funding for travel to present a Research Paper/Poster at a major International Conference: 2019 Association of Technology Management & Applied Engineering (ATMAE) Annual Conference. Charlotte, North Carolina
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Computer Science

Stan Kurkovsky	\$2,205	Professional training in agile software processes: Scrum at Scale
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Counselor Education and Family Therapy

Peg Donohue	\$1,500	Integrating Prevention Science into School Counseling Preparation: Building Effective Multiple Tiered Systems of Supports
Reginald Holt	\$2,167	Supporting a Tenure-Track Faculty Member Serving in the Roles of Workshop Presenter,

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			Business Delegate, Academic Writer/Textbook Editor, Counselor Educator, and Professional Networker at the 2020 Conference and Expo of the American Counseling Association
Criminology and Criminal Justice			
	Damon Mitchell	\$1,358	Travel to Present Screening Instrument for Prisoner Sexual Assault
Economics			
	Samantha Schenck	\$495	Annual Membership to the National Center for Faculty Development and Diversity
	Carolyn Soper	\$800	EViews Certification
Engineering			
	Khaled Hammad	\$1,792	Attend and present at the ASME 2019 International Mechanical Engineering Congress & Exposition and the 2020 ASME Fluids Engineering Conference
English			
	Amanda Greenwell	\$2,888	Presenting and Curating Scholarship on the Figure of the Child as Agent of Change in American Literature
	Aimee Pozorski	\$1,509	"The Scandal of Miss Hutton's Scar in Roth's Indignation": A Presentation on Philip Roth at the American Comparative Literature Association Conference in Chicago, IL
Geography			
	Yunliang Meng	\$1,402	Attending and Presenting at the American Association of Geographer's Annual Conference (April 6th-10th, 2020) in Denver, CO
Geological Sciences			
	Jeff Thomas	\$2,192	Presentation of a Research Project at the 2020 Association for Science Teacher Education International Conference: Impacts of a Design-based Research Project on Science Teachers' Use of Disciplinary Literacy Practices
History			
	Kate McGrath	\$2,800	The "Politics of Anger" in the Cult of St. Guthlac of Crowland Abbey

Department	Faculty	Award	Title
Literacy, Elementary & Early Childhood Education			
	Candace Barriteau Phaire	\$1,676	Enhancing Professional Knowledge & Competencies in Developing and Implementing Curriculum Focusing on Infant and Toddler Mental Health
	Michael Bartone	\$3,900	Queerness in Education: Supporting Children, Teachers, Administrators, and Policymakers in Making Visible LGBT+ Identity in Schools
	Catherine Kurkjian		
	Cara Mulcahy	\$2,502	Professional development on Orton-Gillingham multisensory structured literacy instruction
	Lynda Valerie		
Manufacturing and Construction Management			
	Krishna Kisi	\$1,935	Construction Institute Summit 2020 and Legal Affairs and Dispute Resolution Workshop
	Namhun Lee	\$300	The Occupational Safety and Health Administration (OSHA) 30-Hour Training and Certificate for Construction
	Linda Reeder	\$1,723	Educator Training in Design-Build Project Delivery
Modern Languages			
	Angela Morales	\$2,215	Presenting research paper at the international conference at the University of Malaga (Spain) on "Technologies and their Ideological and Literary Articulations in Spanish Literature"
Music			
	Julie Ribchinsky	\$2,660	Bach and the Modern World: A series of six lecture performances pairing the Six Suites for Violoncello Solo, by J.S. Bach with selected modern works from the solo cello repertoire
Physical Education & Human Performance			
	Tan Leng Goh	\$1,640	Proposal for attendance and presentation at the 2020 Annual NAKHE National Conference
	Sean Walsh	\$807	Leadership, Speaking, and Mentorship

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Psychological Science			
	Julia Blau	\$1,538	Travel funds to attend and present at the International Conference on Perception and Action 2020
	Silvia Corbera Lopez	\$2,000	Travel funds to assist with research activity and scholarship development by presenting results on "Empathy processing as a differential predictor of functioning in Schizophrenia and Autism Spectrum Disorders" at the 75 th Annual Scientific Convention of the Society of Biological Psychiatry
Sociology			
	John Mitrano	\$2,000	"Best Practices" Workshop Participation at the National Society for Experiential Education's Annual Meeting
	Heather Rodriguez	\$1,745	Attendance and Participation in Latino Studies Association Conference "Beyond Borders: Latina/o Studies in Times of Crisis"
Special Education & Interventions			
	Sally Drew	\$2,236	Presentation of two studies, Writing in Social Studies (WiSS) and Investigating RtI Implementation in CT Elementary Reading, at the Pacific Coast Research Conference (PCRC), February 20-22, 2020 in San Diego, CA
	Megan Mackey	\$2,489	Attendance at Two Premiere Special and Teacher Education Conferences
	Natsuko Takemae	\$2,310	How to be prepared for being unprepared?: Embedded support for UDL applications to the real world practices
<i>Part-Time Faculty Development</i>		Total Awarded	\$8,075
Biology			
	Mary Zabik	\$425	Developing new laboratory safety guidelines and techniques for Central Connecticut State University Department of Biology laboratories

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Geological Sciences	Gary Gomby	\$1,800	Teaching the Anthropocene: Reframing Geoscience Education for the Critical 2020s Decade
Marketing	Kristyn Neal	\$1,000	CCSU Sponsors Part-Time Marketing Lecturers Professional Development, Bringing Real Life Experience into the Classroom
Music	Colleen Casey-Nelson	\$1,350	Global Music Perspectives: Bringing World Cultures into the Classroom
	Jill Maurer-Davis	\$2,000	Perform & Observe Teaching methods/materials in Sir James Galway's Residential Flute Festival (17-26 July 2020) Weggis, Switzerland
Technology & Engineering Education	James Carlson	\$1,500	Summer I-STEM Programs: Logistics and Lessons Learned; Presentation given at the 2020 International Technology and Engineering Education. Association (ITEEA) 82nd annual conference