



**FISCAL YEAR 2017  
COLLEGE OF WILLIAM AND MARY  
SPONSORED PROGRAM AWARDS**

**ARTS AND SCIENCES**

Allen, Jonathan D., Latent effects of larval food environment on juvenile performance in sea stars, Sigma Xi, \$630

Anderson, Lisa R., Student Research Funding: Econ 400 -- Research Methods in Experimental Economics, Charles G. Koch Charitable Foundation, \$8,000

Armstrong, David, Wouter Deconinck, Precision Studies of the Standard Model using Parity-Violating Electron Scattering, National Science Foundation, \$5,000

Aubin, Seth A., Leah B. Shaw, Night Vision Lab – Virginia Microelectronics Consortium/Army Research Office, \$20,000

Aubin, Seth A., Virginia Microelectronics Consortium Grant/University of Virginia, \$52,850

Averett, Todd D., Keith A. Griffioen, JSA Student Fellowships, Jefferson Science Associates, LLC, \$24,000

Bailey, Christopher M., Carl R. Berquist Jr., Geologic Mapping in the Petersburg, Dinwiddie, Prince George, Chester and Carson quadrangle areas with emphasis on Petersburg National Battlefield Park, US Geologic Survey/Virginia Department of Mines, Minerals and Energy, \$10,410

Balascio, Nick, Collaborative Research: Re-assessing the arrival of humans and grazing animals in the Faroe Islands, and their impacts on the environment, using organic biomarkers, National Science Foundation, \$50,749

Balascio, Nick, Paleoenvironmental perspectives on prehistoric human settlement of Arctic Norway: Implications for climate, sea-level, and land-use changes during the Iron Age, National Science Foundation, \$144,525

Balascio, Nick, Gregory S. Hancock, James M. Kaste, Early Career: Acquisition of a Particle Size Analyzer for Interdisciplinary Research and Undergraduate Research Training, National Science Foundation, \$80,135

Ben Yishay, Ariel, Impact Evaluation of Brazilian Rainforest Cover, KfW, \$23,430

Ben Yishay, Ariel, Carrie Dolan, Center for Policy Impact in Global Health, Bill and Melinda Gates Foundation, \$49,233

Berquist, Jr., Carl R., Christopher M. Bailey, Geotechnical and Analytical Support for Assessment of Offshore Sand and Heavy Mineral Resources, Virginia Department of Mines, Minerals and Energy, \$9,713

Braddock, Alan, Princeton University Barron Visiting Professorship, Princeton University, \$135,907

Burk, Joshua A., Establishment and Maintenance of the Infrastructure for the Virginia Neuroscience Initiative (VNI) at the College of William & Mary, Virginia Biosciences Health Research Corp, \$87,620

Burk, Joshua A., Hypocretin/orexin modulation of cognitive correlates of brain aging, National Institutes of Health, \$63,403

Carlson, Carl E., Research in Theoretical Hadronic Physics and Related Topics, National Science Foundation, \$100,000

Chambers, Randolph M., Donna Bilkovic, An Innovative Mechanism for Reducing Nitrogen and Phosphorus Inputs to Virginia Waters, Center for Innovation Technology, \$5,000

Chambers, Randolph M., Sarah Stafford, Matthias Leu, Coastal SEES Collaborative Research: Sustainability in Chesapeake Bay shorescapes: climate change, management decisions, and ecological functions, National Science Foundation, \$407,673

Dalgleish, Harmony, Student Garden Club Award, Garden Club of America, \$3,000

Dallaire, Danielle H., Diapers for Healthy Beginnings, Alpha Phi Omega, \$1,250

Dallaire, Danielle H., March of Dimes, Chapter Grant 2017 Healthy Beginnings, March of Dimes, \$10,500

Dallaire, Danielle H., William & Mary Healthy Beginnings Project - Diaper Expansion, Walmart Foundation, \$1,250

DeBerry, Douglas, Invasive Species Research in Compensatory Mitigation, Wetland Studies and Solutions, Inc (WSSI), \$199,788

Deconinck, Wouter, William E. Cooke, Eugene R. Tracy, Rosa A. Lukaszew, Graham Henshaw, The PIPELINE Network: Supporting the Development of Physics Innovation and Entrepreneurship Education through Institutional Engagement, National Science Foundation, \$54,825

Del Negro, Christopher A., Neurophysiology of breathing behavior in mammals studied in neonatal mice *in vitro*, National Institutes of Health, \$245,892

Delos, John B., Dynamics and Control of Atomic, Molecular and Macroscopic Systems, National Science Foundation, \$60,000

Delos, John B., Strategies to reduce apnea and optimize oxygenation in preterm infants, National Institutes of Health, \$41,500

Dudek, Jozef, Meson Spectroscopy from Quantum Chromodynamics (QCD), Department of Energy, \$78,759

Erlich, Joshua, Wouter Deconinck, Virginia Space Grant: Student Support, Virginia Space Grant Consortium, \$39,000

Erlich, Joshua, QuarkNet, National Science Foundation, \$5,500

Forestell, Catherine A., Cheryl L. Dickter, The Effect of Online Marketing on Implicit Affective Responses to E-Cigarettes, National Institutes of Health, \$49,335

Galano, Joseph B., FY 2017 Healthy Families Virginia Statewide Evaluation, Prevent Child Abuse, Virginia, \$58,411

Gallivan, Martin D., Hatch Site (44PG51) Collection Assessment and Preliminary Inventory, Virginia Department of Historic Resources, \$4,962

Gareis, Christopher R., The William & Mary Clinical Faculty Program, Virginia Department of Education, \$46,307

Gavaler, Joan, Commission new work by Aura Curiatlas Physical Theatre, Virginia Commission for the Arts, \$2,000

Gavaler, Joan, Master classes with Lucy Bowen McCauley, Virginia Commission for the Arts, \$300

Grasso, Christopher, National Humanities Center Fellowship, National Humanities Center, \$50,000

Grasso, Christopher, ACLS Fellowship, American Council of Learned Societies, \$58,333

Gundaker, Grey, Columbia Teachers College Visiting Professor of Anthropology and Education in the Department of International and Transcultural Studies, \$183,586

Hanson, Stephen E., Whole of Government Center of Excellence in National Security- Project Implementation, Virginia Secretary of Veterans and Defense Affairs, \$50,000

Hanson, Stephen E., Whole of Government Center of Excellence in National Security- Project Implementation - Year 3, Hampton Roads Military and Federal Facilities Alliance, \$50,000

Heideman, Paul D., R. Heather Macdonald, Marguerite M. Mason, Juanita J. Matkins, Andrew D. Stelljes, Recruitment, Preparation, and Retention of Mathematics and Science Teachers: Noyce Scholars II Program at the College of William and Mary, National Science Foundation, \$159,840

Hill, Michael G., ACLS Burkhardt Fellowship: Sino-Arabic Enlightenments: At the Limits of Comparison, American Council of Learned Societies, \$75,000

Hinders, Mark K., Wave Characterization Modules (WCMS) for Oil Recovery Operations, Department of the Interior/Midstream Technology, LLC, \$96,988

Hinkle, Robert J., Environmentally benign synthesis of esters from bio-based feedstocks, Green Biologics Limited, \$4,475

Hoagland, Roy, Sea Level Rise (SLR) Planning Tools, National Oceanic and Atmospheric Administration/Middle Peninsula Planning District Commission, \$4,000

Jog, Adwait, Design and Analysis of Processing-near-Memory-enabled GPU Architectures, National Science Foundation, \$175,000

Kaplow, Jeff, Nuclear Security Course Development, The Stanton Foundation, \$49,620

Kaste, James M., Fallout radionuclide measurements in soil and sediment samples, Terraqua, Inc., \$19,021

Kerscher, Oliver P., STUbL-dependent clearance of transcriptionally-active, aggregation-prone proteins from the nucleus, Alzheimer's & Related Diseases Research Award Fund, \$45,000

Kerscher, Oliver P., SUMO Biomarker Detection Reagents for Prostate Cancer Diagnosis, Center for Innovative Technology, \$25,000

Kidwell, Nathanael, Laboratory Studies of Sulfur Oxidation Reaction Intermediates in the Atmosphere: Expanding Predictive Atmospheric Models of S-Nitrosothiol Unimolecular and Photochemical Pathways, Virginia Space Grant Consortium, \$10,000

Kordosky, Michael A., Patricia L. Vahle, Jeffrey K. Nelson, Contributions to a Full scale HV test to be conducted at PC4 for the DUNE Liquid Argon TPC, Department of Energy, \$37,232

Krakauer, Henry K., First-Principles Computational Studies of Novel Correlated-Electron Materials, Office of Naval Research, \$62,000

Leu, Matthias, Relations among cheatgrass-driven fire regimes, climate change, and sensitive-status bird species across the Great Basin, Bureau of Land Management, \$10,759

Lewis, Robert M., Approximation and model management for optimization of systems governed by flow in porous media II, ExxonMobil Upstream Research, \$45,000

Lewis, Robert M., CyberMoat: adaptive virtualized network framework for deception and disinformation, Office of Naval Research, \$16,262

Li, Qun, Student Travel Support for the IEEE SEC 2016 Conference, National Science Foundation, \$15,000

Liu, Xu, Collaborative Research: Efficient Exploitation of Heterogeneous Memory through OS/Compiler Support, National Science Foundation, \$249,548

Lukaszew, Alejandra, Defense Advanced Research Projects Agency, Interagency Personnel Agreement, \$220,140

Luepke, Gunter, Time-Resolved Spectroscopy of Insulator-Metal Transitions: Exploring Low-Energy Dynamics in Strongly Correlated Systems, U.S. Department of Energy, \$160,000

Mason, Marguerite M., George T. Rublein, Year 2 Southern Virginia Elementary Mathematics Coalition to Enhance Student Achievement through Teacher Professional Development, U.S. Department of Education, \$346,521

Mellor, Jennifer M., School Health Initiative Program Survey Analysis, Williamsburg Community Health Foundation, \$40,912

Mellor, Jennifer M., SHIP Teacher Survey Fielding and Analysis for 2017, Williamsburg Community Health Foundation, \$11,359

Mikhailov, Eugeny E., Improving space navigation: laser gyroscopes with dispersive media, National Aeronautics and Space Administration, \$10,000

Mordijck, Saskia, Research on DIII-D, U.S. Department of Energy, \$100,000

Nelson, Jeffrey K., Patricia L. Vahle, Michael A. Kordosky, Precision studies of neutrino oscillations and interactions, National Science Foundation, \$480,000

Novikova, Irina B., Fast photo-detectors with high quantum efficiency in the UV spectral region, Defense Threat Reduction Agency, \$450,270

Novikova, Irina B., Non-Linear and Quantum Optical Effects Based on Long-Lived Spin Coherence in Atomic Ensembles at High Optical Depth, Air Force Office of Scientific Research, \$185,901

Novikova, Irina B., Eugeny E. Mikhailov, Quantum imaging system for spatial mode control of atom-based squeezed vacuum states, Air Force Office of Scientific Research, \$94,928

Orginos, Konstantinos, MRI: Acquisition of an advanced, accelerated computational system for Lattice QCD, National Science Foundation, \$300,000

Orginos, Konstantinos, Franz L. Gross, Topics in Theoretical Physics, U.S. Department of Energy, \$100,000

Owens, Christopher L., Expanded Physical Production for *Cymbeline*, York County Arts Commission, \$1,500

Owens, Christopher L., Virginia Shakespeare Festival 16/17 Operating Grant, Williamsburg Area Arts Commission, \$8,000

Pagola, Silvina, "Powder Diffraction Patterns of Organic and Pharmaceutical Solids," International Centre for Diffraction Data, \$1,400

Palermo, Charles J., The William & Mary Global Film Festival and DIY/FIY (Do-It-Young/Film-It-Yourself) Youth Filmmaking Project, Williamsburg Area Arts Commission, \$8,650

Parks, Bradley C., Omnibus Survey Analysis, Bill and Melinda Gates Foundation, \$199,754

Parks, Bradley C., MER Education donors data, Bill and Melinda Gates Foundation, \$10,000

Parks, Bradley C., Brookings Institute Educational Data Uses and Users, Brookings Institute, \$40,756

Parks, Bradley C., Custom Analysis of AidData's 2016 Listening to Leaders Survey, Gates Foundation, \$300,399

Parks, Bradley C., DREAMS Innovation Challenge ,U.S. Department of State, \$1,050,032

Parks, Bradley C., IEG Health Sector Support Review, World Bank, \$9,490

Parks, Bradley C., Resources, Reforms, and Results: What Do On-the-Ground Decision-Makers Want and How Can German Development Cooperation Best Support Them?, BMZ, \$250,000

Peers, Pieter, CAREER: Large Scale Appearance Modeling, National Science Foundation, \$94,741

Peers, Pieter, CI-P: Planning a Community Benchmarking Infrastructure for Bidirectional Reflectance Distribution Functions, National Science Foundation, \$100,000

Peterson, Susan, Michael J. Tierney, Global Pathways: Knowledge Diffusion in International Relations Research, Freie Universität Berlin, \$60,000

Peterson, Susan, Michael J. Tierney, Survey of Junior Security and Defense Policymakers, Carnegie Corporation of New York, \$22,893

Poshyvanyk, Denys, REU Supplement for “NSF CAREER: Enabling License Compliance Analysis and Verification for Evolving Software,” National Science Foundation, \$12,000

Poshyvanyk, Denys, Enabling Integrity and Security Assurance via Traceability in the Context of Agile Processes, Silicon Valley Community Foundation, \$75,000

Poshyvanyk, Denys, CAREER: Enabling License Compliance Analysis and Verification for Evolving Software, National Science Foundation, \$171,029

Qazilbash, M. Mumtaz., Broadband Infrared Nano-spectroscopy, National Science Foundation, \$135,000

Roessler, Philip, The Origins and Consequences of Spatial Inequality in Africa, National Science Foundation, \$148,817

Rossi, Enrico, Practical Implementations of parafermions and braiding of non-Abelian anyons, Office of Naval Research, \$80,000

Runfola, Daniel M., Ariel BenYishay, VFM Analysis of GEF Land Degradation Projects, World Bank, \$87,241

Saha, Margaret S., Building with Biology 2016 Forum Stipend Agreement, National Science Foundation, \$1,200

Savelyev, Peter, Economic and Psychological Origins of Health Capital Accumulation, National Science Foundation, \$117,144

Schniepp, Hannes C., Student Funding: Samantha Applin - Synthesis and Characterization of Reversibly Connectable, Meso-scaled Materials, National Aeronautics and Space Administration, \$77,015

Schniepp, Hannes C., CAREER: Exploring the Recluse Spider's Nanometer-Thin Silk Ribbons, National Science Foundation, \$90,000

Shi, Junping, Chi-Kwong Li, Gexin Yu, Sarah L. Day, EXTREEMS-QED: Computational and statistical theory and techniques in the study of large data sets, National Science Foundation, \$188,565

Shi, Junping, Leah B. Shaw, Collaborative Research: Persistence, Stability and Control of Populations in Heterogeneous Networks, National Science Foundation, \$199,999

Smirni, Evgenia, EAGER: Using Machine Learning to Increase the Operational Efficiency of Large, Distributed Systems, National Science Foundation, \$299,994

Stafford, Sarah, US Army College Fellows Program, U S Army War College, \$18,000

Stathopoulos, Andreas, Exascale Lattice Gauge Theory Opportunities and Requirements for Nuclear and High Energy Physics, Department of Energy, \$74,346

Sun, Kun, Cyber Moat: adaptive virtualized network framework for deception and disinformation, Office of Naval Research, \$240,352

Sun, Kun, Design and Implementation of Decoy Enhanced Dynamic Virtualization Networks, Office of Naval Research, \$179,063

Tierney, Michael J., Bradley C. Parks, Aiding Resilience? The Impact of Foreign Assistance on the Dynamics of Intrastate Armed Conflict, Office of Naval Research, \$82,072

Tierney, Michael J., Bradley C. Parks, Where the Money Goes: Mapping Aid for Better Impact, United States Agency for International Development, \$5,000,000

Tracy, Eugene R., JLab Student Support FY17, Jefferson Science Associates, LLC, \$11,250

Turits, Richard, New World of Color: Slavery, Freedom, and the Making of Race in Santo Domingo and the Atlantic World, National Humanities Center, \$52,000

Venkataraman, Malathy D., Spectroscopic parameters of methane and carbon monoxide for atmospheric compositions retrievals, National Aeronautics and Space Administration, \$44,279

Walker-Loud, Andre, Konstantinos Orginos, Topical Collaboration in Nuclear Theory: Low-energy Probes of Fundamental Symmetries, Department of Energy, \$84,000

Wawersik, Matthew J., Analysis of stem cell development and niche formation during *Drosophila* testis morphogenesis, National Institutes of Health, \$440,853

Weiss, Brad L., Various Studies in Anthropology, Virginia Department of Historic Resources, \$1,535

Wustholz, Kristin L., SusChEM: Interfacial Interactions and Electron Transfer in Dye-Sensitized Systems for Photovoltaics and Photocatalysis, National Science Foundation, \$286,000

Yu, Gexin, A study on problems on graph colouring, covering, and packing, National Security Agency, \$39,984

Zandi-Sayek, Sibel, Spatialising the Missionary Encounter in Beirut and Izmir (phase 2), McGill University, \$5,283

Zhang, Shiwei, Simons Collaboration on the Many Electron Problem, Simons Foundation, \$83,500

Zhou, Gang, TWC: Small: Collaborative: Towards Energy-Efficient Privacy-Preserving Active Authentication of Smartphone Users, National Science Foundation, \$204,349

## **SCHOOL OF EDUCATION**

Chen, Jason, GEODES: Geoscience Diversity Experiential Simulations, National Science Foundation, \$196,007

Colley, Amy C., SURN Literacy Audit for Norfolk Public Schools, Norfolk Public Schools, \$25,000

Cross, Tracy, 2017 Governor's School, Virginia Department of Education, \$73,119

Farmer, Thomas W., SEALS II- Supporting Early Adolescent Learning and Social Success across the Middle School Years, Institute of Education Sciences, \$830,225

Foster, Victoria A., New Horizons Family Counseling Center, Williamsburg Community Health Foundation, \$125,000

Foster, Victoria A., Charles R. McAdams, New Horizons Family Counseling Center, New Horizons Regional Education Center, \$78,600

Hardinge, Gail B., Military Connected Academic and Support Programs - Operation GRIT, US Department of Defense, \$80,288

Hardinge, Gail B., Quantico STEM Summer Academy, U.S. Department of Defense, \$34,969

Hardinge, Gail B., Troops to Teachers Program, US Department of Defense, \$399,508

Hardinge, Gail B., Jacob Joseph, Virginia Beach PRIDE, U.S. Department of Defense, \$15,138

Korinek, Loraine A., Special Education Training and Technical Assistance Center for Regions 2 & 3 (2016-2018), U.S. Department of Education, \$1,501,535

Popp, Patricia A., Supporting the Educational Stability of Students with Disabilities Placed in Foster Care - HOPE FC (Year 2), US Department of Education/Virginia Department of Education, \$30,000

Popp, Patricia A., James H. Stronge, Administration of the Virginia Office of the State Coordinator for the Education of Homeless Children and Youth, US Department of Education/Virginia Department of Education, \$1,227,620



## **SCHOOL OF LAW**

Andrews, Elizabeth., Narrative Enforceable Policies, National Oceanic and Atmospheric Administration/Virginia Department of Environmental Quality, \$30,000

Andrews, Elizabeth, Legal and Policy Research Services for Update of the Virginia Flood Protection, Virginia Department of Conservation and Recreation, \$48,000

Lederer, Fredric I., Fostering Legal Profession Awareness of Legal Issues Incident to the Internet-of-Things, Machine Learning, and Machine to Machine Data Analysis, Silicon Valley Community Foundation, \$168,600

## **CENTER FOR ARCHAEOLOGICAL RESEARCH**

Jones, Joe B., Archaeological Studies, Various Private Entities, \$51,410

Jones, Joe B., Archaeological Studies, Various State Agencies, \$527,684

## **CENTER FOR CONSERVATION BIOLOGY**

Watts, Bryan D., Avian Community Survey at Plum Tree Island National Wildlife Refuge, U.S. Fish and Wildlife, \$48,500

Watts, Bryan D., Black Rail Status Survey for Coastal Georgia, U.S. Department of Interior, \$121,329

Watts, Bryan D., Monitoring and maintenance of the Virginia breeding population of peregrine falcons, Virginia Department of Game and Inland Fisheries, \$28,000

Watts, Bryan D., Red-Cockaded Woodpecker Fall Survey, Virginia Department of Game & Inland Fisheries, \$8,800

Watts, Bryan D., Red-Cockaded Woodpecker Survey, Fall 2016, Virginia Department of Game and Inland Fisheries, \$11,865

Watts, Bryan D., Sea-level rise and forest surveys 2016, Virginia Institute of Marine Science, \$18,354

Watts, Bryan D., Barton J. Paxton, Aerial Bald Eagle (*Haliaeetus leucocephalus*) Nesting Location and Productivity Survey at Fort A.P. Hill, Department of Defense, \$11,000

Watts, Bryan D., Barton J. Paxton, Bald Eagle Nest and Productivity Survey, 2017, , Alcoa Power Generating, Inc., \$15,002

Watts, Bryan D., Barton J. Paxton, Assessment of Contaminant Exposure for Bald Eagles Nesting in Selected Northeast and National Capital Region Parks, National Park Service, \$59,250

Watts, Bryan D., Barton J. Paxton, Bald Eagle Banding at Naval Air Station Patuxent River, Department of the Navy, \$4,883

Watts, Bryan D., Barton J. Paxton, Bald Eagle Nest Surveys at Mason Neck, Occoquan Bay, and Featherstone National Wildlife Refuges 2017, U.S. Fish and Wildlife, \$6,863

Watts, Bryan D., Barton J. Paxton, Bald Eagle Nest Surveys at Naval Support Facility Indian Head, Naval Support Facility Dahlgren, Naval Air Station Patuxent River Complex, and the Army's Blossom Point Research Facility 2015-2018, U.S. Department of Defense, \$16,615

Watts, Bryan D., Michael D. Wilson, Black Rails Status Survey in North Carolina, U.S. Fish and Wildlife, \$88,000

Wilson, Michael D., Bryan D. Watts, Red-Cockaded Woodpecker Population Monitoring and Management in the Piney Grove Reserve, The Nature Conservancy, \$20,000