SPONSORED PROGRAM AWARDS
FISCAL YEAR 2015

ARTS AND SCIENCES

Allen, Jonathan D., Collaborative Research: Strong tests of life history theory using experimental reduction of embryo energy content in diverse marine invertebrates, National Science Foundation, $47,100

Allison, Lizabeth A., Mechanisms Regulating Subcellular Distribution of the Thyroid Hormone Receptor, National Science Foundation, $250,339

Anderson, Lisa R., Proposal for Portable Experimental Economics Laboratory and Software Development, Charles G. Koch Charitable Foundation, $12,460

Angelov, Alexander, Kingdon Fellowship, University of Wisconsin, $51,000

Armstrong, David, Wouter Deconinck, Precision Studies of the Standard Model using Parity-Violating Electron Scattering, National Science Foundation, $230,000

Bailey, Christopher M., Carl R. Berquist Jr., Geologic Mapping in the Yellow Tavern and Quinton Areas of Virginia with Cosmogenic Dating of Selected Colluvium and Pleistocene Terraces, U. S. Department of the Interior/Geological Survey, $12,443

Barnard, Timothy, William and Mary Global Film Festival (GFF), Williamsburg Area Arts Commission, $6,000

Benner, D. C., Malathy D. Venkataraman, Advanced Spectroscopic Models to Enhance OCO-2 Retrieval Accuracy, Jet Propulsion Laboratory/California Inst of Technology, $262,271

BenYishay, Ariel, Impact Evaluation of Brazilian Rainforest Cover, KfW Development Bank, $47,912

Bishara, Fahad, Prize Fellow in Economics, Harvard University, $79,598

Braddock, Alan, Belknap Fellowship Visiting Associate Professor in the Council of the Humanities, Princeton University, $92,573
Carone, Christopher, Josh Erlich, Topics in Physics Beyond the Standard Model, National Science Foundation, $280,000

Dallaire, Danielle H., Catherine A. Forestell, The William and Mary Health Beginnings Project, Anthem Foundation, $48,425

Dallaire, Danielle H., Catherine A. Forestell, W&M Healthy Beginnings Project: March of Dimes Grant, March of Dimes, $12,000

Deconinck, Wouter, Irina B. Novikova, REU Site: Physics Research in the Historic Triangle, National Science Foundation, $102,738

Del Negro, Christopher A., Role of TRP Channels in Respiratory Rhythm and Breathing, National Institutes of Health, $404,250

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

Erlich, Josh, QuarkNet, National Science Foundation, $5,500

Finifter, David H., Multi-Program Participation in SNAP and Unemployment Insurance: How Tight are the Strands of the Recession Safety Net?, U.S. Department of Agriculture, $50,000


Gavaler, Joan, Commissioning of new work by Aura Curiatlas Physical Theatre, Virginia Commission for the Arts, $2,250

Griffioen, Keith A., Todd D. Averett, Nucleon Structure Studies, U.S. Department of Energy $402,000

Hanley, Caroline, The Rise of Insecure Work and the Persistence and/or Abatement of Durable Inequality, National Science Foundation, $25,270

Hanson, Steve, BNU-WM Summer Course Program, Beijing Normal University, $59,976

Harbron, Elizabeth J., Harnessing Amplified Fluorescence Resonance Energy Transfer in Conjugated Polymer Nanoparticles, National Science Foundation, $319,000

Hinders, Mark K., Tagging of Oil Under Ice for Future Recovery, U.S. Department of Interior, $208,805
Kiefer, Richard L., Robert A. Orwoll, Hydrogenous Polymer-Regolith Composites for Radiation-Shielding Materials, National Aeronautics and Space Administration, $32,000

Krakauer, Henry K., Ab Initio Computational Studies of Strain-Coupled Properties of Transition Metal Oxides, Office of Naval Research, $21,615

Krakauer, Henry K., Shiwei, Zhang, Quantum Monte Carlo Calculations of Chemical Binding and Reactions, U.S. Department of Energy, $271,926

Kranbuehl, David E., Understanding the Effect of Graphene Oxide's C:O Ratio on Particle Polymer Intermolecular Forces and Resulting Performance Properties, American Chemical Society Petroleum Research Fund, $110,000

LaMar, Michael D., Collaborative Research: BIO IUSE Ideas Lab: Supporting Faculty in Quantitative Undergraduate Biology Education and Synthesis (QUBES), National Science Foundation, $935,551

Leu, Matthias, Assessment of effects of Chevron's operations on biological diversity, Chevron Technology Ventures, $12,729

Leu, Matthias, Methods for assessment of species richness and occupancy across space, time, taxonomic groups, and ecoregions, U.S. Army Corps of Engineers, $75,878

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

Liu, Xu, Optimizing Program Executions on Non-uniform Threaded Architectures, National Science Foundation, $174,973

Lockwood, Rowan, John P. Swaddle, Collaborative Research: Does sexual selection promote speciation and extinction? A test with Late Cretaceous Ostracoda from the US Gulf Coastal Plain, National Science Foundation, $67,369

Lockwood, Rowan, Leveraging Big Data to Explore Big Ideas: Utilizing the Paleobiology Database to Provide Hands-On Research Opportunities for Undergraduates, National Science Foundation, $47,267


Lukaszew, Rosa A., Investigation of proof-of-principle test samples of thin multi-layer superconductor insulator superconductor (SIS) systems capable of sustaining large field gradients, Defense Threat Reduction Agency, $350,000
Lukaszew, Alejandra, Novel Plasmonic Photocathodes for electron-ion colliders, Department of Energy, $81,000

Macdonald, R. Heather, Faculty as Change Agents: Transforming Geoscience Education in Two-year Colleges, National Science Foundation, $1,021,760

Macdonald, R. Heather, Shaping the Future of Geoscience Education Research: Synthesizing Results and Articulating Future Directions, National Science Foundation, $49,994

Martin, Jack B., Spoken Creek (Muskogee) Documentation Project, National Endowment for the Humanities, $300,000

McBeth, Elaine S., A forecast of State Responsible inmate admissions populations in Virginia’s jails and prisons, VA Department of Corrections, $5,742

Meldrum, Tyler K., Investigation of intermolecular networks in curing and dissolution of coatings using NMR, American Chemical Society Petroleum Research Fund, $55,000

Mellor, Jennifer M., SHIP Teacher Survey Fielding and Analysis for 2015, Williamsburg Community Health Foundation, $8,940

Mordijck, Saskia, Development of long-pulse heating and current drive actuators and operational techniques compatible with a high-Z divertor and first wall, U.S. Department of Energy, $135,600

Mordijck, Saskia, Validation of Particle Transport Modeling Capabilities, U.S. Department of Energy, $85,000

Murphy, Helen, Leah B. Shaw, Exploring the Evolutionary and Molecular Dynamics of Mixed Biofilms to Disrupt their Stability, Jeffress Memorial Trust, $100,000

Nelson, Jeffrey K., Support for Anne Norrick for the MINERvA high energy test beam experimental test, Universities Research Association Inc., $11,000

Novikova, Irina B., Generation of complex quantum polarization states of light in atomic ensembles via four-wave mixing, National Science Foundation, $100,000

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

Orwoll, Robert A., Richard L. Kiefer, Hydrogen-rich Interpenetrating Polymer Networks for Radiation Shield Structures, National Aeronautics and Space Administration, $32,000

Owens, Christopher L., Expanded Acting Company for Julius Caesar, FY 2015, York County Arts Commission, $450
Owens, Christopher  L., Virginia Shakespeare General Operating Grant, Williamsburg Art Commission, $7,500

Pagola, Silvina, Powder diffraction patterns of organic materials, International Centre for Diffraction Data, $840

Parks, Bradley  C., Buying Influence in a Crowded Market: US Foreign Aid Policy in the Post-DAC World, Smith Richardson Foundation, $150,000

Parks, Bradley  C., Geocoding for the World Bank/Global Facility for Disaster Reduction and Recovery, World Bank, $19,773

Parks, Bradley C., German Aid Perception from a Partner Perspective, German Institute for Development Evaluation (Deval), $182,849

Parks, Bradley C., Governance Data Alliance, Omidyar Network, $253,590

Parks, Bradley C., Impact of Chinese Development Projects in Ecological Hotspots, John D. and Catherine T. MacArthur Foundation, $200,000

Parks, Bradley  C., Making Reform Incentives Work for Developing Countries, John Templeton Foundation, $150,000

Parks, Bradley  C., Mapping Fisheries Projects in Indonesia, Conservation International, $15,000

Parks, Bradley  C., Mise en Place de la Plateforme Informatisee de Gestion de l’Aid au Tchad, Implementation of the Aid Management Platform in Chad, Development Gateway, $39,875

Parks, Bradley C., WB Governance, World Bank, $49,765

Parks, Bradley C., Health systems research data collection and coding, World Health Organization, $5,145

Parks, Bradley C., Philip Roessler, Humanity United LOI: Collaboration between AidData and the Concessions Working Group to monitor Chinese concessions in Liberia, Humanity United, $115,174

Parks, Bradley C., Studies, Gulf Cooperative Council, Bill and Melinda Gates Foundation, $271,780

Parman, John  M., Department of Economics Grant Proposal for Student  Faculty Research, Charles G. Koch Charitable Foundation, $10,000
Peers, Pieter, CAREER: Large Scale Appearance Modeling, National Science Foundation, $90,864

Peers, Pieter, Measurement-based Editing of Reflectance Properties in Photographs - REU Supplement, National Science Foundation, $8,000

Perdrisat, Charles F., Proton form factor experiments with 12 GeV at Jlab, National Science Foundation, $120,000

Peterson, Susan, Michael J. Tierney, International Policy and Public Opinion Project, Carnegie Corporation of New York, $22,500

Peterson, Susan, Study of the Discipline of International Relations in Poland, University of Warsaw, $8,000

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

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

Poshyvanyk, Denys, CI-EN: RUI: Collaborative Research: TraceLab and Beyond - Building a Shared Research Environment for Reproducible Software Engineering Experiments, National Science Foundation, $250,000

Qazilbash, M. Mumtaz, Broadband Infrared Nano-spectroscopy, National Science Foundation $125,000


Rossi, Enrico, Electronic properties of graphene on substrates with strong spin-orbit coupling, Office of Naval Research, $90,000

Saha, Margaret, HHMI Universities Undergraduate Science Education Program Grant, Year One, Howard Hughes Medical Institute, $300,000

Scheerer, Jonathan R., Cycloadditions and cycloreversions of pyrazinones: preparation of diverse medicinally-privileged molecular scaffolds from a common diketopiperazine precursor, National Institutes of Health, $294,000

Schniepp, Hannes C., CAREER: Exploring the Recluse Spider's Nanometer-Thin Silk Ribbons, National Science Foundation, $90,000
Schniepp, Hannes C., David E. Kranbuehl, Manufacturing Polymers with Advanced Performance through Graphene-Based Nanoparticle Additives, Commonwealth Technology Research Fund, $100,000

Settle, Jaime, Understanding the Mechanisms for Disengagement from Contentious Political Interaction, National Science Foundation, $149,975


Sher, Marc T., Intergovernmental Personnel Act assignment to the National Science Foundation, National Science Foundation, $12,250

Spaeth, Barbette S., George D. Greenia, 2014 Symposium on Pilgrimage Studies: American Pilgrims on the Camino, $1,000

Stafford, Sarah, James City County Housing Needs Assessment, Williamsburg Area Association of Realtors, $5,000

Stathopoulos, Andreas, Enhancing the PRIMME software with new methods and functionality for eigenvalue and SVD problems, National Science Foundation, $447,884

Sun, Kun, Cyber Moat: Adaptive virtualized network framework for deception and disinformation, Office of Naval Research, $185,325

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

Sun, Kun, Host Immunity via Mutable Virtualized Large-Scale Network Containers, Office of Naval Research, $59,075

Sun, Kun, Modeling and Analysis of Deception Mechanisms for Thwarting Reconnaissance in Tactical MANETs, Army Research Office, $99,000

Sun, Kun, Resource Efficient Multi-source Authentication with Split-Join One-Way Key Chain for Wireless Ad Hoc Networks, Army Research Office, $40,111

Swaddle, John P., Daniel A. Cristol, An experimental test of the developmental stress hypothesis - fitness consequences of early versus late contaminant exposure, National Science Foundation, $154,000

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., Christopher J. Abelt, NIST Summer Undergraduate Research Fellowship 2015 – Gaithersburg, National Institute of Standards and Technology, $8,042


Vahle, Patricia L., CAREER: Commissioning Calibration and Data Analysis with Nova Detectors, National Science Foundation, $120,000

Venkataraman, Malathy D., Oxygen A-band Spectroscopy National Aeronautics and Space Administration, $105,194

Venkataraman, Malathy D., D. C. Benner, Temperature Dependence of CO2 Broadened Line Widths of H2O and HDO for Mars, National Aeronautics and Space Administration, $120,830

Walker-Loud, André, Testing the Standard Model and Fundamental Symmetries in Nuclear Physics with Lattice QCD and Effective Field Theory, Department of Energy, $750,000

Wang, Haining, Investigation on Covert Channel Attacks and Countermeasures in the Cloud, Office of Naval Research, $10,000

Wustholz, Kristin L., Identification of Artists' Materials in Early American Cultural Heritage Objects using Surface-Enhanced Raman Spectroscopy, Jeffress Memorial Trust, $10,000

Young, Douglas, Harnessing the Genetic Code to Introduce Novel Protein Functionality for Therapeutic Applications, Jeffress Memorial Trust, $10,000

Zhang, Shiwei, *Ab Initio* Calculations in Correlated Electron Models and Materials, National Science Foundation, $260,000

Zhang, Shiwei, Predictive Computing for Condensed Matter, Department of Energy, $150,000

Zhou, Gang, Reducing Smartphone Application Delay through Read/Write Isolation, Center for Innovative Technology, $99,998

Zobin, Nahum, Fitting Smooth Functions to Data, United States-Israel Binational Science Foundation, $23,000

Zwollo, Patty, Role of immune progenitors in regulation of genetic resistance against bacterial pathogens, National Institutes of Health, $363,740
SCHOOL OF EDUCATION

Beers, James W., 2014-2015 NWP SEED: Professional Development in a High-Need School, National Writing Project, $20,000

Beers, James W., 2014-16 SEED Teacher Leadership Development Grant, National Writing Project $10,000

Cross, Tracy, 2015 Summer Residential Governor's School for Engineering and Marine Science, Virginia Department of Education, $67,654

Foster, Victoria A., Charles R. McAdams, New Directions for Family & Youth Development, Williamsburg Community Health Foundation, $124,500

Gareis, Christopher R., The William and Mary Clinical Faculty Grant, Virginia Department of Education, $46,316

Hardinge, Gail B., MCASP-1 Professional Development AY 2014-2015, U. S. Department of Defense/Virginia Beach City Public Schools, $99,806

Hardinge, Gail B., MCASP-1 Summer Academy, U. S. Department of Defense/Virginia Beach City Public Schools, $86,766

Hardinge, Gail B., Operation Pride Professional Development AY 2014-2015, U. S. Department of Defense/Virginia Beach City Public Schools, $93,057

Hardinge, Gail B., Virginia Beach MCASP Summer Academy, U. S. Department of Defense/Virginia Beach City Public Schools, $91,884

Hardinge, Gail B., Jacob Joseph, Elementary School STEM-A-THON, U. S. Department of Defense/Virginia Beach City Public Schools, $8,592


Hardinge, Gail B., Jacob Joseph, Quantico Summer Academy, U. S. Department of Defense/Building Engineering & Science Talent, $35,564

Hardinge, Gail B., Jacob Joseph, STEM Mentoring - Developing Career Support in a Makerbot World, Virginia Beach City Public Schools, $25,070

Hardinge, Gail B., Jacob Joseph, Virginia Beach City Public Schools - STEMathon Electrifying Day! U. S. Department of Defense/Virginia Beach City Public Schools, $8,592
Hardinge, Gail B., Jacob Joseph, Virginia Beach PRIDE Summer Academy, U. S. Department of Defense/Virginia Beach City Public Schools, $91,884

Hardinge, Gail B., Jacob Joseph, Virginia STEM-A-THON High School, U. S. Department of Defense/Virginia Beach City Public Schools, $8,592


**SCHOOL OF LAW**

Gruen, Martin E., Video Hearings Best Practices, Administrative Conference of the United States, $18,000

Roberts, Patricia, Empowering Victims in Virginia through Holistic Legal Services, U.S. Department of Justice, $265,046

Hoagland, Roy, Go Green, Save Money: Lowering Flood Insurance Rates with Green Infrastructure, Environmental Protection Agency, $25,000

**SCHOOL OF BUSINESS**

Picconi, Marc P., PWC INQuires Grant to Develop New Materials for Accounting Courses, PriceWaterhouseCoopers LLC, $10,000

Smith, Kimberly J., Denise Jones, Do Gains and Losses on Available-for-Sale Securities Reverse? International Association for Accounting Education and Research (IAAER), $25,000
WILLIAM AND MARY RESEARCH INSTITUTE

Hoffman, Ronald, Charles Carroll of Carrollton Papers 2013-2014, Charles Carroll of Carrollton Foundation, $231,000


Manos, Dennis M., William E. Cooke, Baseline Studies of Molten Salt Technology for Thermal Energy Storage, Office of Naval Research, $15,000

CENTER FOR CONSERVATION BIOLOGY

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

Watts, Bryan D., Barton J. Paxton, Assessment of potential disturbance to breeding bald eagles from construction activities at Widewater State Park, Stafford County, Virginia, Vanasse Hangen Brustlin, Inc., $802

Watts, Bryan D., Barton J. Paxton, Assessment of potential disturbance to breeding bald eagles from shoreline stabilization activities at Jamestown Beach Park, James City County, Virginia, Vanasse Hangen Brustlin, Inc., $794

Watts, Bryan D., Barton J. Paxton, Elizabeth Mojica, Bald Eagle Banding at Naval Air Station Patuxent River, Naval Facilities Engineering Command, $4,772

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 $15,977


Watts, Bryan D., Barton J. Paxton, Monitoring Avian Productivity and Survivorship on Quantico Marine Base, Indian Head Naval Support Facility, and Dahlgren Naval Surface Warfare Center (MAPS) 2015-2018, U.S. Department of the Navy, $58,237
Watts, Bryan D., Barton J. Paxton, Survey of Bald Eagle and Osprey nests between Eaton’s Ferry and the Carolina Sub-station, Roanoke Rapids, NC, Dominion Virginia Power, $6,157


Watts, Bryan D., Elizabeth Mojica, Using GPS satellite tracking for risk assessment of bald eagles during an AVM epizootic on a Georgia reservoir dominated by hydrilla, Georgia Department of Natural Resources, $4,977

Watts, Bryan D., Elizabeth Mojica, 2015 Monitoring and Maintenance of the Coastal Virginia Peregrine Falcon Breeding Population, Virginia Department of Game and Inland Fisheries, $24,676

Watts, Bryan D., Elizabeth Mojica, Assessing the impact of eagle roost loss through network analysis, American Eagle Foundation, $19,348

Watts, Bryan D. Barton J. Paxton, Fletcher M. Smith, Auxiliary Marking of Shorebirds in the Upper Bay of Panama to Assess Population and Demography and Provide Training to Local Biologists in 2015, Canadian Wildlife Service, $16,628


Watts, Bryan D., Fletcher M. Smith, Investigating Population Dynamics of Red Knot Migration along the Southeast Atlantic Coast Through Mark Recapture Analysis of Resights 2015, U.S. Fish and Wildlife, $46,455

Watts, Bryan D., Fletcher Smith, Policy Analysis and Scoping Assessment of Shorebird Hunting in the Caribbean/N. South America, National Fish and Wildlife Foundation, $44,619

Watts, Bryan D., Fletcher M. Smith, Population Estimation, Habitat Use, and Satellite Tracking of the Whimbrel (Numenius phaeopus) in Atlantic Canada, Canadian Wildlife Service, $15,000

Watts, Bryan D., Barton J. Paxton, Michael D. Wilson, Wallops Island Tower Avian Risk Assessment, National Aeronautics and Space Administration, $26,584

Wilson, Michael D., Bryan D. Watts, Red-Cockaded Woodpecker Population Monitoring and Management in the Piney Grove Preserve, The Nature Conservancy, $20,000
CENTER FOR ARCHAEOLOGICAL RESEARCH

Jones, Joe B., Archaeological Surveys and Assessments, Dewberry, $135,245

Jones, Joe B., Archaeological Surveys and Assessments, Virginia Department of Transportation, $108,639

Jones, Joe B., Archaeological Surveys and Assessments, Environmental Resources Management, $125,485

Jones, Joe B., Archaeological Surveys and Assessments, College of William and Mary, $21,394

Jones, Joe B., Capt John Smith Chesapeake Assessment, National Historic Trust, $18,498

Jones, Joe B., Fire Island New York Assessment, National Park Service, $70,000

Jones, Joe B., Evaluation Old Brick House, Old Brick House Foundation, $2,498

Jones, Joe B., Rice Center, Weyanoke Lodge, Virginia Commonwealth University, $11,138

Jones, Joe B., Archaeological Survey and Assessment, Richmond National Historical Park, National Park Service, $95,000

Jones, Joe B., Archaeological Assessments, Private Owners, $9,343

Jones, Joe B., Rockfish Valley, Archaeological Survey and Assessment, Hanbury Preservation Consulting, $4,469