

FEDERAL SUPPORT

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, \$265,997

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

Armstrong, David, JSA: Jefferson Lab Distinguished Theory Student Fellowship, Jefferson Science Associates, LLC, \$22,000

Armstrong, David, Michael J.Kelley, Konstantinos Orginos, JLab Student Support, Jefferson Science Associates, LLC, \$156,000

Bailey, Christopher M., Resolving the Kinematics and Timing of the Thousand Lake Fault System: Lyman 7.5 quadrangle, High Plateaus Utah, United States Geological Survey, \$24,425

Beers, James W., Title II SEED Grant Proposal: Teacher Leadership Development Eastern Virginia Writing Project Grant Proposal, National Writing Project, \$20,000

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

Berquist, Jr., Carl R., Geologic Mapping in the Williamsburg and Quinton Areas of Virginia with Age Dating of Selected Colluvium and Pleistocene Terraces, United States Geological Survey/Virginia Division of Geology and Mineral Resources, \$21,737

Carboni, Inga M., Examining Socially Excluded Adolescents using Social Network Analysis, National Institutes of Health, \$27,308

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

Chen, Jason, Consulting for Project TESLA, National Science Foundation, \$20,889

Deconinck, Wouter, William J. Kossler, REU Site: Physics Research for Undergraduates, National Science Foundation, \$90,000

Deconinck, Wouter, Precision Electroweak Measurements using Parity-Violating Polarized Electron Scattering, National Science Foundation, \$100,000

Defur, Sharon, SPDG-William & Mary External Evaluation, 2012-2013, U. S. Department of Education/ Virginia Department of Education, \$126,647

Del Negro, Christopher A., Neurophysiology of breathing behavior in mammals studied in neonatal mice in vitro, National Institutes of Health, \$214,157

Delos, John B., Dynamics and control of atomic, molecular, and optical systems, National Science Foundation, \$100,000

Detmold, William, Multi-meson systems in lattice QCD, U.S. Department of Energy, \$94,000

Dillig, Ayse, STAMP: Static Assurance for Mobile Applications, Defense Advanced Research Projects Agency, \$222,482

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, \$40,000

Forsyth, Mark H., Evolution of a bacterial genome encoding increased virulence; the genomics of *Helicobacter pylori* isolates lacking the cag pathogenicity island, National Institutes of Health, \$346,000

Grant, Leslie W., Learning Enhanced through the Nature of Science: Development of Cornerstone Assessments, U.S. Department of Education/Old Dominion University Research Foundation, \$9,071

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

Gruen, Martin E., OMHA Medicare through Administrative Conference of the United States, \$125,000

Hart, Henry W., Irish Poet Seamus Heaney (b. 1939): A Critical Biography, National Endowment for the Humanities, \$50,400

Haygood-Jackson, Donna, Sarah I. Menefee, William and Mary Comprehensive Suicide Prevention Program, Substance Abuse and Mental Health Services Administration, \$236,604

He, Daifeng, Moral Hazard and Long-Term Care Insurance, National Institutes of Health, \$51,560

Hendrix, Cullen S., CNH-Ex: Conflict and Fisheries in the Lake Victoria Basin, National Science Foundation, \$116,349

Hoffman, Ronald, The Charles Carroll of Carrollton Papers, National Endowment for the Humanities, \$50,714

Hunt, Pamela S., Mechanisms of Trace Fear Conditioning in the Developing Rat, National Institutes of Health, \$53,503

Huyck, Heather, Developing the American Colonial Experiences Website, National Park Service, \$14,688

Johnson, Charles R., REU Site: Matrix Analysis, its Applications and Related Combinatorics, National Science Foundation, \$57,600

Jones, Shana C., Virginia Sea Grant Summer Fellows, National Oceanic & Atmospheric Association, \$22,200

Kahn, Jennifer G., Collaborative Research: Vulnerability and Resilience in Island Socioecosystems, National Science Foundation, \$25,525

Kelley, Michael J., Laser polishing: Green Path to improved accelerator surfaces, U.S. Department of Energy, \$60,000

Kelley, Michael J., Konstantinos Orginos, Joint Faculty Support, Department of Energy, \$977,254

Kerscher, Oliver P., New targets & functions for SUMO-targeted ubiquitin ligases, National Science Foundation, \$197,072

Kincaid, Rex K., Comparative Analysis of Fundamental Properties of Centralized and Distributed Control of Transport Systems with Applications to Functional Allocation, National Aeronautics and Space Administration, \$25,201

Korinek, Loraine A., 2012-14: Training and Technical Assistance Center (T.TAC WM), U. S. Department of Education/Virginia Department of Education, \$1,344,476

Krakauer, Henry K., Ab Initio Computational Studies of Strain-Coupled Properties of Transition Metal Oxides, Office of Naval Research, \$300,000xxx

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

Leu, Matthias, Current and predicted human land use effects on ecological processes within and around the Mojave Network Parks, U.S. Department of Interior, \$7,287

Leu, Matthias, Stuart E. Hamilton, Mapping the distribution of ecological systems in the Eastern Shore Virginia National Wildlife Refuge, U.S. Fish and Wildlife Service, \$30,000

Li, Chi-Kwong, COLLABORATIVE RESEARCH: Mathematical aspect of quantum information science, National Science Foundation, \$48,531

Li, Qun, Student Travel Support for IEEE INFOCOM 2013, National Science Foundation, \$25,000

Luepke, Gunter, Time-Resolved Spectroscopy of Insulator-Metal Transitions: Exploring Low-Energy Dynamics in Strongly Correlated Systems, Department of Energy, \$90,000

Luepke, Gunter, Controlling spin dynamics in ferromagnetic Si tunnel diodes and III-V nanostructures using electric fields and pulse shaping, Office of Naval Research, \$50,000

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, \$1,050,000

Lukaszew, Rosa A., Operations Support, U.S. Department of Energy, \$17,500

Lukaszew, Rosa A., New Photocathode materials for Electron-ion-colliders, U.S. Department of Energy \$89,000

Macdonald, R. Heather, Conference support for geoscience two-year college project, National Science Foundation, \$10,000

Mason, Marguerite M., VA Stem CoNNECT, U. S. Department of Education/Longwood University, \$14,613

Mason, Marguerite M., Tidewater Team, 6-8, U.S. Department of Education, \$225,000

Mason, Marguerite M., Secondary Mathematics Professional Development Center, U.S. Department of Education, \$32,755

McNamara, William, Immobilization of Bio-Inspired Transition Metal Complexes on TiO₂ for the Photocatalytic Generation of Hydrogen, National Aeronautics and Space Administration, \$10,000

Mordijck, Saskia, Validation of Particle Transport Modeling Capabilities, U.S. Department of Energy, \$98,265

Novikova, Irina.B., Nonlinear 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

Orwoll, Robert A., Richard L. Kiefer, Space Station Validation of Advanced Radiation-Shielding Polymeric Materials, National Aeronautics and Space Administration, \$200,000

Outlaw, Ronald A., Graphene Based Electrical Double Layer Capacitor, Army Research Office, \$14,961

Peers, Pieter, CGV: Small: Measurement-based Editing of Reflectance Properties in Photographs, National Science Foundation, \$330,435

Popp, Patricia A., James H. Stronge, Education for Homeless Children and Youth Program - McKinney-Vento, U. S. Department of Education/Virginia Department of Education, \$998,884

Poshyvanyk, Denys, III: Small: Collaborative Research: An Inductive Framework to Support Software Maintenance, National Science Foundation, \$247,835

Poshyvanyk, Denys, Supporting Student Travel from underrepresented groups to the 28th IEEE Int'l Conference on Software Maintenance, National Science Foundation, \$10,000

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, \$150,000

Rice, Gary W., GOALI: Semi-Packed Gas Separation Columns with Monolayer-Protected Gold Phases, National Science Foundation/Virginia Polytechnic Institute, \$10,246

Rossi, Enrico, Electronic properties of graphene on substrates with strong spin-orbit coupling, Office of Naval Research, \$53,271

Sanderson, S. L., Virginia Space Grant Consortium: Student Funding, National Aeronautics and Space Administration, \$57,500

Shakes, Diane C., Collaborative Research: Evolutionary mechanisms of skewed sex ratios and reproductive plasticity, National Science Foundation, \$129,420

Shen, Xipeng, CAREER: Input-Centric Program Behavior Analysis and Adaptation, National Science Foundation, \$85,248

Shen, Xipeng, Data Locality Enhancement of Dynamic Simulations for Exascale Computing, U.S. Department of Energy, \$147,992

Stathopoulos, Andreas, Konstantinos Orginos, AF:Small: Algorithms for computing aggregate functions of matrices with applications to Lattice QCD, National Science Foundation, \$400,000

Stathopoulos, Andreas, Konstantinos Orginos, Collaborative Research: Computing Properties of Hadrons, Nuclei and Nuclear Matter from Quantum Chromodynamics, Department of Energy, \$64,000

Swaddle, John P., Graduate and Undergraduate Fellowships: Virginia Space Grant Consortium, National Aeronautics and Space Administration, \$48,000

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, \$150,000

Tian, Jianjun P., Collaborative Research: New Formulation and Algorithms for Fluid-Structure Interaction, with Application to Tumor Growth, National Science Foundation, \$130,000

Tierney, Michael J., Bradley C. Parks, Cullen S. Hendrix, Program on Climate Change, State Stability, and Political Risk in Africa, U.S. Department of the Army, \$66,131

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

Vahala, George M., Unitary Quantum Lattice Algorithms for Turbulence, U.S. Air Force, \$117,349

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

Venkataraman, Malathy D., D.C. Benner, High Resolution Laboratory Spectroscopy of $^{12}\text{C}_2\text{H}_6$ (far-infrared) and PH_3 (infrared) for Outer Planet Investigations, National Aeronautics and Space Administration, \$103,428

Venkataraman, Malathy D., D. C. Benner, Laboratory measurements of spectral line parameters in the $2\nu_3$ (1.67 micron) band of $^{12}\text{CH}_4$, National Aeronautics and Space Administration, \$115,852

Venkataraman, Malathy D., D.C. Benner, Temperature Dependence of CO_2 Broadened Line Widths of H_2O and HDO for Mars, National Aeronautics and Space Administration, \$77,894

Vishton, Peter M., Intergovernmental Personnel Act (IPA) Assignment, National Science Foundation, \$115,362

Vold, Robert L., Gina L. Hoatson, NMR Quadrupolar Spin Probes of Solid State Structure and Dynamics National Science Foundation, \$259,316

Vold, Robert L., Gina L. Hoatson, Deuteron Nuclear Magnetic Resonance Studies of Oriented Proteins and Model Components, National Institutes of Health, \$67,450

Wang, Haining, Collaborative Research: IHCS-Cybersystems: Integration of Protocol and Hardware Designs for Securing Internet Communications, National Science Foundation, \$190,538

Wang, Haining, Bot or Human? A Behavior--based Classification System, U.S. Department of the Army, \$60,000

Wang, Haining, Investigation on Covert Channel Attacks and Countermeasures in the Cloud, Office of Naval Research, \$50,000

Watts, Bryan D., Barton J. Paxton, Monitoring Avian Productivity and Survivorship, (MAPS) Program at Naval Support Facility, Dahlgren 2012, U.S. Department of the Navy, \$17,045

Watts, Bryan D., Elizabeth Mojica, Bald Eagle Nest Surveys at Indian Head, Dahlgren, and Patuxent River, U.S. Department of the Navy, \$6,998

Watts, Bryan D., Fletcher M. Smith, Developing a Potential Biological Removal for Shorebirds along the Atlantic Coast Flyway, US Dept of the Interior, \$38,613

Watts, Bryan D., Establishing Resource Delivery Objectives for Migration Habitat Management on the Lower Delmarva Peninsula, National Oceanic and Atmospheric Administration/Virginia Department of Environmental Quality, \$10,741

Watts, Bryan D., Elizabeth Mojica, Bald Eagle Nest Surveys at Mason Neck National Wildlife Refuge, U.S. Fish and Wildlife, \$7,364

Watts, Bryan D., Fletcher M. Smith, Estimating sustainable mortality limits for shorebirds using the Atlantic Flyway, U.S. Department of Interior, \$7,050

Yu, Gexin, Graph linkage & packing problems, National Security Agency, \$19,942

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

Zhang, Shiwei, Henry K. Krakauer, Electronic Structure Workshop (ES13), Army Research Office, \$10,000

Zhang, Shiwei, Henry K. Krakauer, Electronic Structure Workshop (ES13), Department of Energy, \$15,000

Zhou, Gang, CSR:EAGER:Network Traffic Aware Smartphone Energy Savings, National Science Foundation, \$200,000

Zobin, Nahum, Special Meeting: Focus Program on Whitney Problems at the Fields Institute, Toronto August 27 -- September 30, 2012, National Science Foundation, \$37,960

PRIVATE SOURCES

Abelt, Christopher J., Hydrogen-Bonding Control of Solvatochromism and Non-Radiative Decay in the Fluorescence of PRODAN Derivatives, Petroleum Research Fund, \$65,000

Anderson, Lisa R., Funding for Econ 400: Research Methods in Experimental Economics, Charles G. Koch Charitable Foundation, \$7,500

Blank, Paula, Shakespeare and Modern English, National Humanities Center, \$50,000

Chen, Jason, Assessing beliefs using Virtual Environments, American Psychological Association, \$7,416

Dalgleish, Harmony, The interplay of rarity and insects as drivers of milkweed population dynamics, Oak Ridge Associated Universities, \$5,000

Dallaire, Danielle H., Catherine A. Forestell, A Preventive Intervention for Pregnant, Incarcerated Women, W. K. Kellogg Foundation, \$160,766

Foster, Victoria A., Charles R. McAdams, New Horizons Family Counseling Center, New Horizons Regional Education Center, \$78,650

Hanson, Steve, Keio University-College of William and Mary Cross-Cultural Collaboration, Keio University, \$165,254

Jensen, Christine J., Louis F. Rossiter, Evaluation of the Fairfax County APS Risk Assessment Tool, Fairfax County, Virginia, \$4,566

Jensen, Eric R., Proton Beam Facility Economic Impact Study, Hampton University, \$2,000

Jensen, Eric R., Analysis: Basic Health Programs, Implications for Concordant Family Insurance Coverage, Americagroup Corporation, \$5,000

Jones, Joe B., Planting Grid, Colonial Parkway, Dominion Virginia Power, \$853

Jones, Joe B., Cultural Resources Survey, Dominion Virginia Power Pleasant View Substation, Loudoun County, Dewberry, \$16,755

Jones, Joe B., Dominion Power Service Substation, Dewberry, \$46,879

Jones, Joe B., RT 7 & 690 Interchange, \$192,234

Jones, Joe B., Va Rail Express, Dewberry, \$34,325

Jones, Joe B., Multimodal Transportation Station, Parsons Brinkerhoff, \$19,819

Jones, Joe B., I-0064RT 0285 Interchange, Dewberry, \$7,725

Jones, Joe B., Waxpool Road Intersection, Dewberry, \$23,858

Kaste, James M., Changes in lead biogeochemistry in forest soils during litter decomposition, Jeffress Memorial Trust, \$10,000

Kaste, James M., Gregory S. Hancock, James P. Whittenburg, "Full of Slime and Filth": A Historical and Geologic Analysis of the Link Between Water Quality and Death in Early Jamestown, National Geographic Society, \$17,300

Kranbuehl, David E., Measurement and Analysis of Balder Force Technology, Force Technology, \$17,130

Lambert, Matthew T., Privatization and the Public Good, Smith Richardson Foundation, \$14,818

Lederer, Fredric I., Martin E. Gruen, King County, Washington, review and report, King County, Washington State, \$10,300

Looft-Wilson, Robin C., Role of Nitric Oxide Synthase, Leukocytes, and Cytokines in the Development of Retinopathy of Prematurity Using Intravital Microscopy in a Rat Model, Commonwealth Health Research Board, \$6,816

McAdams, Charles R., Victoria A. Foster, Building Strong Systems of Support for Children's Emotional and Behavioral Health: Empowering At-Risk Families, Williamsburg Community Health Foundation, \$125,000

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

McInerney, Melissa, Do Hispanic Workers Face Wage Penalties in the U.S. Labor Market? W. E. Upjohn Institute, \$5,000

Mellor, Jennifer M., SHIP Existing Data Analysis and Future Evaluation Planning, Williamsburg Community Health Foundation, \$13,661

Mellor, Jennifer M., SHIP Student Body Mass Index (BMI) Analysis, Williamsburg Community Health Foundation, \$5,195

Mellor, Jennifer M., SHIP Teacher Survey Fielding and Analysis, Williamsburg Community Health Foundation, \$9,855

Owens, Christopher L., Virginia Shakespeare Festival - York County Arts Commission Grant, York County Arts Commission, \$350

Parks, Bradley C., Making Reform Incentives Work for Developing Countries, John Templeton Foundation, \$303,774

Parks, Bradley C., Mapping of the African Development Bank's Operations, African Development Bank, \$28,545

Parks, Bradley C., Nepal and Laos Geocoding Initiative, Development Gateway, \$17,644

Parks, Bradley C., AidData's FY14-FY16 Strategic Plan, The William and Flora Hewlett Foundation, \$749,979

Parks, Bradley C., Scott Ickes, Improving the Granularity and Usability of Nutrition-Sensitive Aid Information, Canadian International Development Agency, \$263,391

Parks, Bradley C., IFPRI Geocoding: Geocode CCADP & CGIAR Investments, CORAF and ASARECA Activities, and IFPRI R&D Portfolio, International Food Policy Research Institute, \$27,500

Parman, John M., Economic Analysis of Child Adoption using Historical Data, Japan Society for the Promotion of Science, \$8,140

Peterson, Susan, Michael J. Tierney, Strengthening the Links Between Scholars and Practitioners of International Relations, Carnegie Corporation of New York, \$307,464

Pike, Robert D., Powder Diffraction Patterns of Functional Organic Solids, International Centre for Diffraction Data, \$1,250

Rossiter, Louis F., Christine J. Jensen, Evaluation of the Independent Living Project in Fairfax County, VA, County of Fairfax, \$4,968

Rozzelle, Jan J., Principal Academy, Jesse Ball DuPont Fund, \$156,201

Schniepp, Hannes C., Graphene PU Foam Formulation, Johnson Controls, \$24,733

Schniepp, Hannes C., UHMWPE Materials Performance, Omax Corporation, \$13,711

Shen, Xipeng, Context-Aware Correlation-Based Program Optimizations, IBM Canada Lab, \$28,000

Spaeth, Barbette S., George D. Greenia, International Symposium on Pilgrimage Studies, American Pilgrims on the Camino, \$4,000

Spaeth, Barbette S., George D. Greenia, Public Events on Pilgrimage Studies, Virginia Foundation for the Humanities and Public Policy, \$1,500

Swaddle, John P., Mark K. Hinders, Employing sonic nets to exclude pest birds from grain crops, Bill and Melinda Gates Foundation, \$100,000

Taylor, Dennis, Sustainable Living and Learning: Environmental Impact Analysis, Dominion Foundation, \$45,000

Ward, Thomas, WJCC Administrative Internship 2012-2013, Williamsburg/James City County Public Schools, \$15,000

Watts, Bryan D., Barton J. Paxton, Monitoring Bald Eagle and Human Interaction at Lawrence Lewis Park in Charles City, Virginia, Charles City County, \$24,260

Watts, Bryan D., Fletcher M. Smith, An Investigation of Whimbrel Stopover and Migration Ecology on the Eastern Shore of Virginia, The Nature Conservancy, \$12,000

Watts, Bryan D., Barton J. Paxton, Maryland Great Blue Heron Survey 2013, Maryland Department of Natural Resources, \$15,000

Watts, Bryan D., Barton J. Paxton, Yadkin Project Bald Eagle Nest and Productivity Survey, 2013, Alcoa Power Generating, Inc., \$13,021

Watts, Bryan D., Barton J. Paxton, Fletcher M. Smith, Avian Surveys for the Virginia Offshore Wind Technology Advancement Project, Tetratech, \$68,695

Williamson, Kurt E., Viral Ecology of Freshwater Ecosystems: Abundance, Community Composition, and Seasonal Dynamics, Jeffress Memorial Trust, \$10,000

Williamson, Kurt E., Determining the effectiveness of wet retention ponds in mitigating microbial risk, Virginia Environmental Endowment, \$10,553

Wustholz, Kristin L., Identification of Artists' Materials in Early American Cultural Heritage Objects using Surface-Enhanced Raman Spectroscopy, Jeffress Memorial Trust, \$25,000

Young, Douglas., Harnessing the Genetic Code to Introduce Novel Functionality for Therapeutic Applications, Jeffress Memorial Trust, \$30,000

Zandi-Sayek, Sibel, Spatialising the Missionary Encounter in Beirut and Izmir, Social Sciences and Humanities Research Council of Canada, \$7,188

STATE SUPPORT

Gareis, Christopher R., The William & Mary Clinical Faculty Program, 2012-2013, Virginia Department of Education, \$55,519

Jones, Joe B., Historic Campus Civil War, College of William & Mary, \$55,821

Jones, Joe B., Student Center Building: Lord Fairfax Community College Supplemental Archaeological Evaluation, Lord Fairfax Community College, \$44,051

Jones, Joe B., Fort Pickett Archaeological Assessment and Predictive Model, Maneuver Training Center (MTC) Fort Pickett, Virginia Department of Military Affairs, \$322,533

Jones, Joe B., Jamestown-Scotland Ferry Security Station, Virginia Department of Transportation, \$5,327

Jones, Joe B., Fort Pickett Forestry and Army Airfield, Virginia Department of Military Affairs, \$312,054

Jones, Joe B., RT 189 Bridge Replacement, Virginia Department of Transportation, \$5,601

Jones, Joe B., RT 258, Virginia Department of Transportation, \$5,587

Jones, Joe B., RT 58 Bridge Replacement, Virginia Department of Transportation, \$7,281

Jones, Joe B., Fort Pickett Forestry, Virginia Department of Military Affairs, \$150,073

Jones, Joe B., RT 616 Improvement, Virginia Department of Transportation, \$15,873

Jones, Joe B., RT 624 Bridge Replacement, Virginia Department of Transportation, \$7,581

Jones, Joe B., RT 60 Relocation, Virginia Department of Transportation, \$23,433

Lewes, David W., Camp Pendleton, Virginia Department of Military Affairs, \$18,132

Watts, Bryan D., Red-Cockaded Woodpecker Fall Survey. Virginia, Department of Game & Inland Fisheries, \$5,000

Watts, Bryan D., Northern Saw-whet Owl Banding, Virginia Department of Game & Inland Fisheries, \$2,000

Watts, Bryan D., Peregrine Falcon Coastal Management Reports (Renewable Agreement), Virginia Department of Game & Inland Fisheries, \$25,696

Watts, Bryan D., Michael D. Wilson, An Assessment of Breeding Productivity for Selected High Marsh Nesting Birds in Virginia, Virginia Department of Game and Inland Fisheries, \$53,760

Watts, Bryan D., Barton J. Paxton, Virginia Colonial Water bird Survey 2013, Virginia Department of Game and Inland Fisheries, \$20,686

Watts, Bryan D., Barton J. Paxton, Virginia Great Blue Heron and Great Egret Survey 2013, Virginia Department of Game and Inland Fisheries, \$37,553