

Alexeenko to Braun

Alexeenko, Alina; aeronautics and astronautics, from Optima Machinery Corporation, \$10,000, "LyoHub Consortium-Optima Machinery."

Alexeenko, Alina; aeronautics and astronautics, from Corning Inc, \$10,000, "LyoHub Consortium – Corning."

Allebach, Jan P and Brinton, Christopher Greg; electrical & computer engineering, from HP Inc, \$65,000, "3-D Marketing Data Science."

Allert, Beate I; language & culture, from International Institute of Education, \$16,559, "Foreign Fulbright Pakistan – Muhammad Hassan Qadeer Butt."

Alsop, Janet M; curriculum & instruction, from Purdue Doctoral Program, \$31,988, "Bowman, Alexander J."

Alsop, Janet M; curriculum & instruction, from Purdue Doctoral Program, \$31,988, "Bowen, Jessica Renee."

Altman, Ryan Alan; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$86,916, "Fluoroalkylethers and Fluorinated Ethermimetics."

Altman, Ryan Alan; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$375,488, "Fluoroalkylethers and Fluorinated Ethermimetics; Modification 4, Grant 11001030."

Armstrong, Shalamar D; agronomy, from Illinois Nutrient Research & Education Council, \$160,711, "The Effect of Cover Crops on Surface Water Quality: A Paired Watershed Experiment in the Lake Bloomington Watershed."

Arnett, Caroline L; Foell, Mary S and Goshorn, Allison J; field extension, from Healthcare Foundation of La Porte, \$14,639, "Kingsford Heights Community Garden."

Babiak, Paulina M; chemical engineering, from Purdue University Frederick N. Andrews Fellowship, \$32,677, "2020-21 Andrews Fellowships/Assistantships – Graduate School (71000070)."

Basaran, Osman A; chemical engineering, from American Chemistry Council, \$12,500, "Purdue Process Safety and Assurance Center (P2SAC)."

Beaulieu, Lionel J; Office of Engagement administration, from Indiana Economic Development Corporation, \$169,994, "SE SBDC – Federal – SBA CARES Act Supplemental Funds."

Behrens, Sandra R; nursing administration, from Indiana University, \$219,169, "Northwest Indiana Area Health Center State Funds (2020-2021)."

Bertino, Elisa; computer science, from IBM, \$57,463, "IBM DAIS ITA – BPP20 (Grant 13000865)."

Bhargava, Bharat; computer science, from Sandia National Laboratories, \$25,000, "Moving Target Defense for Space Systems; Amendment 2, Grant 14000469."

Bhave, Sunil A; electrical & computer engineering, from National Science Foundation, \$30,000, "RAISE-TAQs: Multifunctional Hybrid Quantum Systems for Spin-Based Quantum Control and Metrology."

Bhave, Sunil A; electrical & computer engineering, from Kampanics, LLC, \$70,000, "Development of Resonators on High Temperature Piezoelectric Materials for Harsh Environment Sensor and Oscillator Applications." (a Discovery Park award – Birck Nanotechnology Center)

Bhunia, Arun K; food science, from Biomatrix Inc, \$4,000, "Shuttleworth North America."

Bianchi, Antonio; computer science, from Hackerone, Inc, \$3,000, "Multi Sponsor Voluntary Support."

Bingham, Clifton W; computer science, from Amazon.com, \$78,575, "Multi Voluntary Support."

Blendell, John E; materials engineering, from Colorado School of Mines, \$35,184, "DEFENS: Development and Exploration of Ferroelectric Nitride Semiconductors."

Bolin, Jeffrey T; Research Development Administration, from Showalter Trust, \$15,000, "FY 19 Showalter Scholars (41000461)."

Bolin, Jeffrey T; Research Development Administration, from Purdue Research Foundation, \$10,400, "FY20-21 PRF Grants (60000029)."

Bolin, Jeffrey T; Research Development Administration, from Showalter Trust, \$15,000, "FY18 Showalter Scholars (41000380)."

Bolin, Jeffrey T; Research Development Administration, from Showalter Trust, \$20,000, "FY21 – Showalter Scholar."

Bolin, Jeffrey T; Research Development Administration, from Showalter Trust, \$5,000, "FY 20 – Showalter Scholar (41000621)."

Bolin, Jeffrey T; Research Development Administration, from Purdue Research Foundation, \$122,705, "FY20-21 PRF Grants (60000029)."

Bolin, Jeffrey T; Research Development Administration, from Showalter Trust, \$10,000, "FY 16-17 Showalter Scholars (41000320)."

Boudouris, Bryan W and Savoie, Brett; chemical engineering, from Air Force Office of Scientific Research, \$199,276, "Manipulating the Spatial, Charge Transfer, and Energetic Interactions of Open-Shell Moieties in Multifunctional, Low Glass Transition Temperature Radical Polymers; Modification 1, Grant 13000756."

Bowman, Aaron B; Health Sciences, from Albert Einstein College of Medicine, \$275,167, "Mechanisms of Methylmercury Induced Neuronal Toxicity (Grant 11000860 Amendment #4)."

Braun, James E; mechanical engineering, from Daikin Manufacturing Company, LP, \$25,000, "Center for High Performance Building Consortium-Goodman Manufacturing."

Braun, James E and Horton, William Travis; mechanical engineering, civil engineering, from Air Conditioning Refrigeration Institute, \$39,657, "Assessment of Load-Based Testing Method."

Burbank to Evans

Burbank, Kenneth A; engineering technology, from Ross Graduate Fellowship-Assistantship, \$31,668, "Wang, Yibo."

Burbank, Kenneth A; engineering technology, from Ross Graduate Fellowship-Assistantship, \$31,668, "Sahu, Praveen."

Burgess, Wilella Daniels and **Parker, Loran Carleton**; education administration, from John N. Gardner Institute for Excellence, \$30,000, "Intermediaries for Scale (PACE)."

Burgess, Wilella Daniels and **Parker, Loran Carleton**; education administration, from John N. Gardner Institute for Excellence, \$30,000, "Pedagogy, Advising, and Curriculum Excellence (PACE) Project."

Caffee, Marc W; **Granger, Darryl E**; **Lifton, Nathaniel A** and **Muzikar, Paul F**; physics & astronomy, earth, atmospheric, and planetary sciences, from National Science Foundation, \$708,000, "Facility Support: Accelerator Mass Spectrometry at Prime Lab (Grant 10001005)."

Caffee, Marc W; physics & astronomy, from National Aeronautics and Space Administration, \$155,000, "Cosmic-Ray-Produced Radionuclides from Returned Samples as Indicators of Dynamic Surface Regolith Processes: Improvements in AMS Analytical Techniques; Supplement 1; Grant 12000293."

Campbell, Noll L; pharmacy practice, from Indiana University, \$8,019, "The Cirrhosis Medical Home: A Feasibility Study."

Capano, Michael A; electrical & computer engineering, from Purdue University Frederick N. Andrews Fellowship, \$21,378, "Lin, Frank."

Cappelleri, David J; **Linnes, Jacqueline C**; **Arrieta Diaz, Andres**; **Weinstein, Dana** and **Zavattieri, Pablo D**; mechanical engineering, biomedical engineering, electrical & computer engineering, civil engineering, from National Science Foundation, \$417,970, "MRI: Acquisition of a Nanoscribe Photonic Professional Gt2 3-D Printer."

Chandrasekar, Srinivasan and **Mohanty, Debapriya Pinaki**; industrial engineering, from Saint Gobain Corporation, \$72,950, "Correlating Performance of Coated Abrasive Products with Chip Attributes."

Chang, Leifu; biological sciences, from PHS-NIH National Institute of General Medical Science, \$378,517, "Molecular Basis for CRISPR RNA-Guided Nucleic Acid Cleavage and DNA Transposition."

Chapple, Clint C S and **Dilkes, Brian**; biochemistry, from U.S. Department of Energy, \$788,194, "Coupling Metabolic Source Isotopic Pair Labeling and Genome Wide Association for Metabolite and Gene Annotation in Plants (14000465)."

Chopra, Gaurav and **Shi, Riya**; chemistry, basic medicine science, from Army Medical Research Acquisition Activity, \$1,300,000, "Elucidating Microglial Immune Regulation Targets to Remove Protein Aggregates in TBI."

Chopra, Gaurav; chemistry, from Onu Technology, Inc, \$10,000, "Accelerating Understanding of COVID-19 Biology and Treatment via Scaled Medical Record and Biosimulation Analytics."

Chopra, Gaurav; chemistry, from Merck Sharp & Dohme Corp, \$75,000, "Machine Learning Framework for Bioanalytical Method Development and Automation."

Christian, John A; comparative pathobiology, from Western University of Health Sciences, \$18,850, "Cytology Resource Center (40001198)."

Connor, Robert J and **Dick, Stephen M**; civil engineering, from Transportation Technology Center, \$80,000, "Machine Vision Measurement of IN-Track Rail Stresses for Track Stability."

Dai, Mingji; chemistry, from PHS-NIH National Institute of General Medical Science, \$381,824, "Synthesis and Study of Medicinally Important Molecules (Grant 11000747)."

Davisson, Vincent Jo; **Knipp, Gregory Thomas** and **Stahelin, Robert V**; medicinal chemistry & molecular pharmacology, industrial and physical pharmacy, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$704,383, "Antiviral Lead Identification to Treat Filovirus Infections (11000905)."

Delaurentis, Daniel A; aeronautics and astronautics, from Robust Analytics, \$68,759, "Modeling Terminal Airspace via SoS Approach."

DeWoody, James Andrew; forestry & natural resources, from Purdue University Frederick N. Andrews Fellowship, \$32,677, "Heenkenda Mudi-yanselage, Erangi J."

Diaz-Vargas, Xiomara N; Cooperative Extension Service, from YMCA of Greater Indianapolis, \$7,776, "Teen Teachers Imagine Science."

Dilkes, Brian; biochemistry, from Donald Danforth Plant Science Center, \$153,483, "Elucidating the Molecular Mechanisms Underlying Drought Resilience in Sorghum."

Dong, Suchuan; mathematics, from National Science Foundation, \$67,228, "Numerical Algorithms and Simulations for Multiphase Flows of N Immiscible Incompressible Fluids."

Eddy, Michael Patterson; earth, atmospheric, and planetary sciences, from National Science Foundation, \$289,249, "Collaborative Research: Investigating Magmatic Differentiation in a Fossil Upper-Crustal Silicic Magma System: Stillwater Range, NV."

Eddy, Michael Patterson; earth, atmospheric, and planetary sciences, from National Science Foundation, \$349,776, "Collaborative Research: Burning Down the House: Investigating the Relationships Between Magmatic 'Flare-Ups', Crustal Rheology, and Arc Collapse."

Edwards, Nancy E; nursing, from Health Resources & Services Administration, \$110,000, "Health Center Cluster (Grant 11000493)."

Ehlers, Shawn G; agricultural & biological engineering, from Ross Graduate Fellowship-Assistantship, \$32,677, "Morris, Glen."

Elliott, Stephen John; technology, leadership & innovation, from Purdue Doctoral Program, \$16,360, "Isabell, Tonya Madora."

Esters, Levon T; agricultural sciences education and communication, from Purdue Doctoral Program, \$32,677, "Parker, Victoria Ann."

Evans, Janice Perry; biological sciences, from Purdue University Frederick N. Andrews Fellowship, \$34,840, "Lee, Andy."

Evans, Janice Perry; biological sciences, from Purdue University Frederick N. Andrews Fellowship, \$31,201, "Ciubotariu, Ilinca I."

Evans, Janice Perry; biological sciences, from PHS-NIH National Institute of Child Health and Human Development, \$77,500, "Novel Reverse Genetics Approach to Probe Cytoskeletal Functions in Mammalian Oocytes; Amendment 1; Grant 11000928."

Evans, Janice Perry; biological sciences, from Purdue University Frederick N. Andrews Fellowship, \$31,334, "Pfeffer, Claire M."

Fei to Hillery

Fei, Songlin; forestry & natural resources, from U.S. Forest Service, \$20,000, "Develop Directory of Current Genetics Plantings Across Region 9."

Fei, Songlin; forestry & natural resources, from Purdue University Frederick N. Andrews Fellowship, \$31,668, "Huang, Yunmei."

Field, William E; agricultural & biological engineering, from Mitzner, Janelle, \$100, "Breaking New Ground."

Field, William E; agricultural & biological engineering, from Fleshman, Madeline J, \$1,130, "Breaking New Ground."

Foster, Ricky E; Cooperative Extension Service, from City of Fort Wayne, \$100,000, "Johnny Mae Farm Urban Ag Position."

Frankenberger, Jane R; agricultural & biological engineering, from Indiana State Department of Agriculture, \$100,000, "Science Assessment to Support Indiana's State Nutrient Reduction Strategy: Quantifying Nutrient Reductions."

Garcia, R Edwin; materials engineering, from Idaho National Laboratory, \$60,371, "Integrating Plasticity to a Phase-Field Model of Sintering."

Ginzel, Matthew D; forestry & natural resources, from U.S. Forest Service, \$90,000, "Hardwood Improvement and Regeneration Center."

Ginzel, Matthew D; entomology, from Purdue Doctoral Program, \$31,668, "Roy, Kylie Alohilani Minei."

Gkritza, Konstantina and **Labi, Samuel**; civil engineering, from IN Department of Transportation, \$207,404, "SPR 4509 Strategic Assessment of Needs and Opportunities for Wider Adoption of Renewable Energy and Electrification in Indiana."

Goldenstein, Christopher S; mechanical engineering, from National Science Foundation, \$66,657, "Characterization of Reactor-Assisted Burner Flames Using Ultrafast Infrared Spectroscopy; Amendment 2; Grant 10001382."

Gondhalekar, Ameya D; entomology, from BASF Corporation, \$2,700, "Determining Residual Toxicity of Ridesco, Fendona and Demand CS Against American Cockroaches."

Gondhalekar, Ameya D; entomology, from BASF Corporation, \$8,100, "Determining Efficacy of Different Residual Insecticides Against Bait Averse, Pyrethroid-Tolerant, and Indoxacarb Tolerant German Cockroaches."

Gondhalekar, Ameya D; entomology, from BASF Corporation, \$4,050, "Determining the Effect of Bioassay Temperature Conditions on the Efficacy of Vedira Pressurized Insecticide and Ridesco Against Pyrethroid-Tolerant German Cockroaches."

Gonzalez, Marcial; **Mort, Paul R** and **Wassgren, Carl R**; mechanical engineering, materials engineering, from Sandia National Laboratories, \$36,301, "Model-Directed Powder Compaction Flows."

Gounder, Rajamani P; chemical engineering, from U.S. Department of Energy, \$146,342, "Dynamic Multinuclear Active Sites Formed from Mobilized Single Atoms on Heterogeneous Supports for Selective Oxidation Catalysis (Grant 14000405)."

Grant, Richard H; agronomy, from Wood Environment & Infrastructure Solutions Inc, \$16,991, "Dry Deposition Monitoring at Vincennes Indiana; Amendment 4, Grant 16200019."

Greeley, Jeffrey P and **Miller, Jeffrey T**; chemical engineering, from U.S. Department of Energy, \$499,849, "Data Science-Driven Discovery of Multimetallic Oxygen-Cycle Electrocatalysts for Enhanced Energy Conversion; Modification 1, Grant 14000459."

Greeley, Jeffrey P; chemical engineering, from U.S. Department of Energy, \$150,500, "Interfacial Electrocatalytic Processes from First Principles -; Modification *, Grant 14000223."

Greene, Christopher H; physics & astronomy, from National Science Foundation, \$126,903, "Few-Body Quantum States and Interactions (Grant 10001507)."

Guzey, Sukru; civil engineering, from Baker Consulting Group, \$18,803, "Analysis and Design of Fixed Equipment."

Guzey, Sukru; civil engineering, from Baker Consulting Group, \$6,500, "Analysis and Design of Fixed Equipment."

Hacker, Thomas J; **Smith, Preston M**; computer information technology, IT Research Computing, from National Science Foundation, \$163,960, "Building the Research Innovation Workforce: a Workshop to Identify New Insights and Directions to Advance the Research Innovation Workforce."

Haddock, John E; civil engineering, from Indiana Department of Transportation, \$150,000, "Federal Highway Portion (LTAP) (2020/2021) (20000420)."

Haddock, John E; civil engineering, from Indiana Department of Transportation, \$1,519,422, "Work Plan and Budget Request Indiana Local Technical Assistance Program (LTAP) 2020-2021."

Hamaker, Bruce R; food science, from Lynn Interdisciplinary Graduate Fellowship, \$31,668, "Richmond, Monica."

Hamer, Lawrence Olin; business Administration, from Indiana Economic Development Corporation, \$188,317, "CARES Act for Northwest SBDC at Purdue University Northwest."

Han, Bumsu and **Konieczny, Stephen F**; mechanical engineering, biological sciences, from University of North Carolina at Chapel Hill, \$107,682, "Targeting the Plasminogen Activation System to Limit Pancreatic Cancer Progression and Associated Thrombosis; Amendment 1, Grant 11000968."

Hartman, Nathan W; computer graphics technology, from Purdue University Frederick N. Andrews Fellowship, \$19,916, "Krogmeier, Claudia M."

Hertel, Thomas W; agricultural economics, from Joint Research Centre, \$20,435, "GTAP Consortium-(EC-JRC)."

Hertel, Thomas W; agricultural economics, from World Bank, \$20,435, "GTAP Consortium-WB."

Hertel, Thomas W; agricultural economics, from European Commission, \$20,435, "GTAP Consortium-EC-DG Trade."

Hill, Catherine A; entomology, from US Army Contracting Command - Aberdeen Proving Ground (ACC-APG) Adelphi Division, \$299,590, "Extending the PIRK Technology to Fight Transmission of Tick-Borne Diseases (Grant 13000813)."

Hillery, Elizabett A; **Smith, Preston M**; IT Research Computing, from National Science Foundation, \$10,000, "Travel Support: Student Program for Practice and Experience in Advanced Research Computing Conference (PEARC20)."

Hirleman to Knopik

Hirleman, E Daniel; OCGP Administration, from Minciencias, \$195,805, "Transformation Training Program: Tools and Competency Development for SENA's Management of Innovation."

Hirleman, E Daniel; OCGP Administration, from Minciencias, \$5,171, "Transformation Training Program: Tools and Competency Development for SENA's Management of Innovation – Lilia Portion Only."

Hoffmann, Stephen R; chemistry, from Purdue University Frederick N. Andrews Fellowship, \$31,201, "Hu,Yanyang."

Honnappa, Harsha; industrial engineering, from National Science Foundation, \$44,044, "Transitory Stochastic Models: Analysis and Optimization."

Hook, Tomas O; Pijanowski, Bryan C and Salazar, Kara A; forestry & natural resources, Illinois-Indiana Sea Grant, from National Oceanographic & Atmospheric Administration, \$171,391, "Using Existing Data and Models Deployed through Tipping Point Planner to Support Lamp and Community Planning Decisions."

Horgan, Briony H; earth, atmospheric, and planetary sciences, from National Aeronautics and Space Administration, \$15,000, "Signatures of Basalt Weathering Under Cold and Icy Conditions on Mars – Fellowship for Noel Scudder; Supplement 3 for Grant #12000255."

Horgan, Briony H; earth, atmospheric, and planetary sciences, from U.S. Geological Survey, \$19,352, "Investigating Explosive Volcanic Deposits in the Montes Apenninus Area Using Moon Mineralogy Mapper Data."

Hu, Jingwei; mathematics, from National Science Foundation, \$111,498, "CAREER: Predictive Simulations of Complex Kinetic Systems (Grant 10001132 – Amendment #4)."

Huang, Fang; biomedical engineering, from PHS-NIH National Institute of General Medical Science, \$374,123, "Interferometric 3-D Super-Resolution Imaging and Structure and Stoichiometry Mapping in Living Cells."

Huber, Matthew; earth, atmospheric, and planetary sciences, from National Science Foundation, \$20,625, "Collaborative Research: Integrating Eocene Shark Paleocology and Climate Modeling to Reveal Southern Ocean Circulation and Antarctic Glaciation."

Hultgren, Kyle E; Center for Medicine Safety, from AbbVie Inc, \$138,523, "Purdue/AbbVie/FDA Medication Safety Fellowship."

Hwang, Inseok; Goppert, James Michael and Xu, Dongyan; aeronautics and astronautics, computer science, from Technology Innovation Institute, \$2,014,181, "Cybersecurity for UAS Operations in Urban Environment."

Hwang, Inseok; aeronautics and astronautics, from INHA University, \$818,576, "Big Data-Based Aviation Safety Technology Development and Data Management Platform Construction."

Iyer, Ananth V; management, from Ross Graduate Fellowship-Assistantship, \$31,668, "Liu, Jiacheng."

Iyer-Pascuzzi, Anjali; botany & plant pathology, from National Aeronautics and Space Administration, \$66,650, "The Effect of Spaceflight and Microgravity on Plant Defense Responses; Supplement 1; Grant 12000309."

Jahanshahi, Mohammad Reza; civil engineering, from Bentley Systems Inc, \$25,000, "M. Janhanshai Voluntary Support."

Jayant, Krishna; biomedical engineering, from Purdue Doctoral Program, \$32,677, "Roa Gonzalez, Laura Andrea."

Jiang, Jean Q; engineering technology, from Swoopu Technology, \$3,200, "Development of Simulation Tools for Rotating Machine Fault Detection Using Machine Learning Techniques."

Jiang, Wen; biological sciences, from National Institutes of Health, \$538,470, "Midwest Consortium for High Resolution Cryoelectron Microscopy."

Johnson, Mary E; aviation & transportation technology, from Ross Graduate Fellowship-Assistantship, \$18,432, "Zorrilla, Martin Fernando."

Johnson, William G; botany & plant pathology, from Gary Marksberry, \$9,600, "Weed Science Research Voluntary Support."

Johnson, William G and Young, Bryan G; botany & plant pathology, from Monsanto Company, \$22,680, "Low Tunnel Test 2 : Comparison of MON 51817/DRA Premix with MON 51817 Tank Mixtures with DRA and Roundup Xtend II."

Johnson, William G and Young, Bryan G; botany & plant pathology, from Monsanto Company, \$22,680, "Low Tunnel Test 1 : Comparison of MON 51817/DRA Premix with MON 51817 Tank Mixtures with DRA and Xtendimax."

Johnson, William G; botany & plant pathology, from Corteva Agriscience, \$7,100, "Weed Science Research Voluntary Support."

Jung, Andreas; physics & astronomy, from Fermi National Accelerator Laboratory, \$36,214, "High Luminosity (HL) LHC CMS Detector Upgrade Project Outer Tracker (Grant 14000504)."

Kais, Sabre; chemistry, from UES Inc., \$74,111, "Quantum Machine Learning for Extended Systems."

Kate, Aniket Pundlik; computer science, from National Science Foundation, \$97,018, "CAREER: Towards Privacy and Availability of Inter-Blockchain Communication (Grant 10001459)."

Kelly, Brian C; sociology, from Utah State University, \$59,791, "Sibling Socialization of Alcohol and Drug Use from Early through Late Adolescence; Amendment 4, Grant 11000679."

Kim, Seungjin; nuclear engineering, from Ross Graduate Fellowship-Assistantship, \$32,677, "Lee, Joeun."

Kim, Young L; biomedical engineering, from Rural Development Administration of the Republic of Korea, \$246,000, "Development of Security Technologies Using Fluorescent Silk for Anti-Counterfeiting of Medicines."

Kim, Young L; biomedical engineering, from Trask Trust Fund, \$47,845, "Scalable Production and Deposition of Luminescent Silk Microparticles for 'On-Dose' Medicine Authentication."

Kinzer-Ursem, Tamara L; biomedical engineering, from National Science Foundation, \$113,334, "CAREER: Quantitative Tools to Measure the Spatiotemporal Dynamics of Protein Signaling Complexes (Grant 10001305)."

Knipp, Gregory Thomas; industrial and physical pharmacy, from Environmental Protection Agency, \$790,441, "Integrated Blood Brain Barrier – Computational Model Development to Predict Doses of Concern for Compound Linked Neurotoxicity."

Knopik, Valerie S; human development and family studies, from Ross Graduate Fellowship-Assistantship, \$28,938, "Zhang, Keqin."

Kokini to Mason

Kokini, Jozef L; food science, from LASPAU, \$3,818, "LASPAU Scholarship for Cindy Mayorga Perez."

Kong, Nan and Abrahamson, Kathleen A; biomedical engineering, nursing, from National Science Foundation, \$25,000, "GOALI/Collaborative Research: Consistent Nursing Home Staff Planning Under Heterogeneous Service Demand."

Lang, Rafael F; physics & astronomy, from National Science Foundation, \$191,900, "Collaborative Research: Continuation of the Dark Matter Search with XENON1T and its Upgrade XENONnT at LNGS; Amendment 3, Grant 10001203."

Laskin, Alexander; chemistry, from U.S. Department of Energy, \$226,363, "Spectro-Microscopy Studies of Atmospheric Particles (Grant 14000378)."

Laskin, Julia and Park, Joon Hyeong; chemistry, electrical & computer engineering, from PHS-NIH National Cancer Institute, \$630,000, "Novel Platform for Quantitative Subcellular Resolution Imaging of Human Tissues Using Mass Spectrometry."

Levesque-Bristol, Chantal; Center for Instructional Excellence, from University of Michigan, \$17,250, "SEISMIC: the Sloan Equity and Inclusion in STEM Introductory Courses Collaboration."

Liao, Peilin; materials engineering, from National Science Foundation, \$60,000, "Collaborative Research: Photocatalytic Ketyl and Amino Radicals-Initiated C-C Bond Formation via Semiconductor-Based Photocatalysts."

Liceaga, Andrea M; food science, from Multi-Sponsored Industrials, \$4,500, "Multi Sponsored Gift – Sensory."

Lin, Guang; mathematics, from National Science Foundation, \$84,031, "CAREER: Uncertainty Quantification and Big Data Analysis in Interconnected Systems: Algorithms, Computations, and Applications (Grant 10000979, Amendment #4)."

Linnes, Jacqueline C; biomedical engineering, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$370,285, "Smartphone-Based Diagnostic for HIV Self-Testing (Grant 11000748)."

Liu, Xing; biochemistry, from American Heart Association, \$228,877, "Role of Cand2, a Heart and Skeletal Muscle Specific Protein, in Regulating Protein Ubiquitination and Degradation."

Longuski, James M; aeronautics and astronautics, from National Aeronautics and Space Administration, \$60,455, "Mission Design Tool for Automated Missed-Thrust Design with Multiple Outages."

Lu, Na; civil engineering, from Indiana Department of Transportation, \$266,119, "SPR 4513 – Determining Optimal Traffic Opening Time through Concrete Strength Monitoring: Phase II."

Lu, Zhuoran; computer science, from Purdue University Frederick N. Andrews Fellowship, \$19,916, "Lu, Zhuoran."

Lucht, Robert P; Gore, Jay P; Hasti, Veeraraghava Raju and Satija, Aman; mechanical engineering, from National Science Foundation, \$330,000, "Quantitative Measurements of Temperature and Species in Counterflow Flames Near Extinction."

Luo, Zhao-Qing and Das, Chittaranjan; biological sciences, chemistry, from National Institutes of Health, \$392,377, "Effector-Mediated Ubiquitin Manipulation in Legionella Pneumophila Pathogenesis (Grant 11000621)."

Lyanda-Geller, Olga V; language & culture, from Indiana University, \$3,000, "Technical Russian: Science and Engineering."

Lyanda-Geller, Yuli; physics & astronomy, from U.S. Department of Energy, \$138,000, "Charge Carrier Holes Correlations and Non-Abelian Physics in Nanostructures, Quantum Hall Effect and Hybrid Superconductor/Semiconductor Structures (Grant 14000217)."

Lynall, Matthew D and Lu, Yung-Hsiang; management, electrical & computer engineering, from National Science Foundation, \$31,999, "I-Corps Sites: Type II – Purdue University I-Corps Site."

Ma, Zhao and Silva, Chelsea Angelina; forestry & natural resources, from American Forests, \$2,810, "Private and Public Seedling Nursery Survey in the Northern Region."

Maestas, Cherie Drake; political science, from Lynn Interdisciplinary Graduate Fellowship, \$31,668, "Gurganus, Kayla M."

Malshe, Ajay P; Celik, Zeynel Berkay; Sutherland, John W and Xu, Dongyan; mechanical engineering, computer science, environmental & ecological engineering, from DENS North America Foundation, \$110,000, "Undergraduate Student 4.0 (US4.0): a Convergent Training Program for Autonomous Connected Mobility Networks."

Manfra, Michael James; physics & astronomy, from U.S. Department of Energy, \$285,628, "Direct Observation of Fractional Quantum Hall Quasiparticle Braiding Statistics via Interferometry (Grant 14000452)."

Mason, Linda J; Graduate School Administration, from Purdue University Frederick N. Andrews Fellowship, \$32,677, "2020-21 Andrews Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Ross Graduate Fellowship-Assistantship, \$190,008, "2020-21 Ross Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Purdue University Frederick N. Andrews Fellowship, \$32,677, "2020-21 Andrews Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Ross Graduate Fellowship-Assistantship, \$162,376, "2020-21 Ross Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Purdue Doctoral Program, \$32,677, "2020-21 Purdue Doctoral Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Purdue University Frederick N. Andrews Fellowship, \$30,758, "2020-21 Andrews Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Ross Graduate Fellowship-Assistantship, \$63,336, "2020-21 Ross Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Purdue Doctoral Program, \$31,668, "2020-21 Purdue Doctoral Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Purdue Doctoral Program, \$32,677, "2020-21 Purdue Doctoral Fellowships/Assistantships – Graduate School (71000068)."

Mason, Linda J; Graduate School Administration, from Purdue Doctoral Program, \$32,677, "2020-21 Purdue Doctoral Fellowships/Assistantships – Graduate School-Diaz Arroyo, Ricem M."

Mason to Peng

Mason, Linda J; Graduate School Administration, from Purdue University Frederick N. Andrews Fellowship, \$22,579, "2020-21 Andrews Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Purdue University Frederick N. Andrews Fellowship, \$32,677, "2020-21 Andrews Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Ross Graduate Fellowship-Assistantship, \$32,677, "2020-21 Ross Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from George Washington Carver Fellowship, \$16,911, "Carver Fees – Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Purdue Doctoral Program, \$773, "2017-18 Purdue Doctoral Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Purdue University Frederick N. Andrews Fellowship, \$62,685, "2020-21 Andrews Fellowships/Assistantships – Graduate School (71000070)."

Mason, Linda J; Graduate School Administration, from Ross Graduate Fellowship-Assistantship, \$64,345, "2020-21 Ross Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Ross Graduate Fellowship-Assistantship, \$155,540, "2020-21 Ross Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Purdue Doctoral Program, \$718, "2018-19 Purdue Doctoral Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Ross Graduate Fellowship-Assistantship, \$32,677, "2020-21 Ross Fellowships/Assistantships – Graduate School."

Mason, Linda J; Graduate School Administration, from Purdue Doctoral Program, \$25,078, "2020-21 Purdue Doctoral Fellowships/Assistantships – Graduate School."

McLuckey, Scott A; chemistry, from Merck & Company Inc., \$50,000, "Ion-Ion Reactions for Native MS of Multimers of the L1 Transmembrane Protein."

Mengiste, Tesfaye D; botany & plant pathology, from National Science Foundation, \$57,752, "Plant Immune Signaling Network: Connecting Pathogen Perception, Chromatin Modification and Activation of Immune Responses. (Grant 10001533)."

Merwade, Venkatesh Mohan and Tiwari, Alka; civil engineering, from National Aeronautics and Space Administration, \$45,000, "Improving Post-Hurricane Flood Modeling Utilizing Recent Satellite Products. (Grant 12000305)."

Meyer, Terrence R and Braun, Amanda M; mechanical engineering, from National Aeronautics and Space Administration, \$80,000, "In-Situ Temperature, Velocity, and Density Measurements in High-Speed Flows Using Burst-Mode Filtered Rayleigh Scattering."

Mikhail, Maged B; engineering technology, from PMMI Foundation, \$4,231, "PMMI U Skills Fund Grant: PNW/LinMot Project."

Miller, Margaret A; comparative pathobiology, from PHS-NIH National Cancer Institute, \$2,498, "NIH Tuition Only Fellowship for Patrick Huang."

Mishra, Dharmendra K; food science, from TTR LLC, \$225, "Multi Sponsored Gift."

Mohammadi, Saeed; electrical & computer engineering, from Florida International University, \$165,000, "Field Emitter Robust Vacuum Integrated Nanoelectronics (FERVIN)."

Mott, John H; aviation and transportation technology, from Purdue University Frederick N. Andrews Fellowship, \$31,668, "Zhang, Qilei."

Mott, John H; aviation and transportation technology, from Ross Graduate Fellowship-Assistantship, \$31,668, "Borgen, Kristoffer B."

Mukherjee, Partha P; mechanical engineering, from Underwriters Laboratories, \$70,000, "Characterizing Fast Charge of Li-Ion Cells and Modules and the Safety Implications."

Mukherjee, Partha P; mechanical engineering, from Sandia National Laboratories, \$58,860, "Modeling Customized Lithium Batteries for Mission Applications; Modification 1, Grant 14000476."

Mull, Casey Downs; Ruiz, Yumary; Diaz-Vargas, Xiomara N and Henderson, Jason R; Cooperative Extension Service – 4-H, health & kinesiology, field extension, from National Institute of Food & Agriculture, \$140,000, "Purdue University Sustainable Community Project– Indiana JUNTOS."

Nateghi, Roshanak; industrial engineering, from National Science Foundation, \$250,000, "Collaborative Research: a Deeply Integrated Physics-Based and Data-Driven Approach for Effective Resilience Management of the Power Grid."

Ogas, Joseph P; biochemistry, from American Society of Plant Biologists, \$700, "Examining the Role of PKL in DNA Damage Repair in the Homologous Recombination Pathway."

Oliver, Haley F; Deering, Amanda J; Ebner, Paul D; Ricker-Gilbert, Jacob E; Shively, Gerald E and Wang, Hui-Hui; food science, animal sciences, agricultural economics, International Programs in Agriculture, agricultural sciences education and communication, from Agency for International Development, \$250,000, "Rapid Response Project to Manage the COVID-19 Pandemic Food Safety and Food Security Challenges in Developing Counties."

Ozalp, Nesrin; mechanical & civil engineering, from Michigan State University, \$45,498, "Solid State Solar Thermochemical Fuel (SoFuel) for Long Duration Storage."

Pare, Philip Eugene; electrical & computer engineering, from University of Illinois at Champaign-Urbana, \$50,000, "Algorithms and Software Tools for Modeling, Data Assimilation and Control of COVID-19."

Pare, Philip Eugene; electrical & computer engineering, from National Science Foundation, \$75,485, "RAPID: Collaborative Research: Using Data to Understand the Effects of Transportation on the Spread of COVID-19 as a Propagator and a Control Mechanism."

Parkinson, Elizabeth I; chemistry, from Purdue University Frederick N. Andrews Fellowship, \$31,201, "Nelson, Samantha."

Patton, Aaron J; horticulture and landscape architecture, from The Lawn Institute, \$7,437, "Identification of Successful Nitrogen Fertilization Establishment Regimes for Fine Fescue Sod Production."

Peng, Chunyi; computer science, from National Science Foundation, \$126,103, "CAREER: Amplifying Intelligence in Mobile Networked Systems (Grant 10001300)."

Pires Dos Santos to Savikhin

Pires Dos Santos, Andrea; comparative pathobiology, from Purdue University Frederick N. Andrews Fellowship, \$32,677, "Varvil, Mara Suzann."

Pourpoint, Timothee L; Collicott, Steven H and Kenttamaa, Hilkka I; aeronautics and astronautics, chemistry, from National Aeronautics and Space Administration, \$24,999, "Short Course on Hypergolic Propellants."

Pourpoint, Timothee L; aeronautics and astronautics, from National Aeronautics and Space Administration, \$700, "Short Course on Hypergolic Propellants."

Pourpoint, Timothee L; Collicott, Steven H and Kenttamaa, Hilkka I; aeronautics and astronautics, chemistry, from Jacobs Technology Inc, \$15,613, "Short Course on Hypergolic Propellants (Jacobs)."

Prabhakar, Sunil K; computer science, from Purdue University Frederick N. Andrews Fellowship, \$19,916, "Recker, Nicholas J."

Prabhakar, Sunil K; computer science, from Ross Graduate Fellowship-Assistantship, \$31,668, "Jiao, Ying."

Prabhakar, Sunil K; computer science, from Purdue University Frederick N. Andrews Fellowship, \$36,240, "Bevilacqua, Beatrice."

Prabhakar, Sunil K; computer science, from Ross Graduate Fellowship-Assistantship, \$31,668, "Kim, Jiwon."

Prabhakar, Sunil K; computer science, from Ross Graduate Fellowship-Assistantship, \$31,668, "Peng, Yun."

Prabhakar, Sunil K; computer science, from Ross Graduate Fellowship-Assistantship, \$31,668, "Garg, Rohan."

Prezzi, Monica and Salgado, Rodrigo; civil engineering, from National Science Foundation, \$434,452, "Experimental Study of the Response of Open-Ended Piles to Axial and Lateral Loads Using Image Analyses and X-Ray CT"

Prokopy, Linda S; forestry & natural resources, from Indiana Soybean Alliance, \$10,000, "Understanding of Persistence of Cover Crop Use: Big Pine."

Purpura, David J; human development and family studies, from National Science Foundation, \$314,999, "CAREER: Mechanisms Underlying the Relation Between Mathematical Language and Mathematical Knowledge (Grant 10001299)."

Raghunathan, Anand; electrical & computer engineering, from Qualcomm Incorporated, \$75,000, "Multi Sponsor - Voluntary Support."

Rainey, Katherine Martin; agronomy, from Ohio State University, \$32,274, "Increasing Soybean Genetic Gain for Yield by Developing Tools, Know-How and Community Among Public Breeders in the North Central US."

Ramirez, Julio Alfonso; civil engineering, from National Science Foundation, \$700,000, "NHERI Network Coordination Office (Grant 10001034, Amendment #10)."

Ratliff, Timothy L; Yang, Jiang; Atallah Lanman, Nadia M and Kazemian, Abdolmajid; comparative Pathobiology, biochemistry, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$620,771, "Impact of Inflammation on Adult Prostate STEM Cells."

Reese, Laura Ms; public health, from Childhelp, Inc, \$125,731, "PACTECH Qualitative Research Project."

Remis, Melissa J; anthropology, from Purdue University Frederick N. Andrews Fellowship, \$31,201, "Becerra, Jose R."

Remis, Melissa J; anthropology, from Purdue Doctoral Program, \$31,858, "Long, Rebecca Elizabeth."

Remis, Melissa J; anthropology, from Purdue Doctoral Program, \$31,201, "Kelly, Kilian."

Remis, Melissa J; anthropology, from Ross Graduate Fellowship-Assistantship, \$35,202, "Keevil, Trevor Liam."

Renzulli, Linda A; sociology, from Purdue University Frederick N. Andrews Fellowship, \$28,937, "Tan, Tony Loo Tat."

Riley, Donna M; engineering education, from George Washington Carver Fellowship, \$37,727, "2020-21 Carver Fellowships/Assistantships - Graduate School."

Riley, Donna M; engineering education, from Ross Graduate Fellowship-Assistantship, \$32,677, "Adams, Shauna N."

Rodriguez, Natalia Maria; public health, from United Way - Greater Lafayette & Tippecanoe Co Indiana Inc, \$41,312, "A Community Health Worker LED Approach to COVID-19 Impact Mitigation for the Homeless Population of Tippecanoe County."

Rokhinson, Leonid P; physics & astronomy, from U.S. Department of Energy, \$80,000, "Engineering Topologically Protected Superconducting States."

Roy, Kaushik; electrical & computer engineering, from IBM, \$36,875, "Self-Aware Cognitive Services for Distributed Coalition Environments - BPP20 (Grant 13000866)."

Ruan, Xiulin; mechanical engineering, from National Science Foundation, \$208,183, "Collaborative Research: High-Order Phonon Scattering and Highly Nonequilibrium Carrier Transport in Two-Dimensional Electronic and Optoelectronic Materials."

Ruan, Xiulin; mechanical engineering, from National Aeronautics and Space Administration, \$80,000, "Ultra-Efficient Micropatterned Variable Emissivity Coatings Engineered for Extreme Environments."

Sabbaghi, Arman; statistics, from Trask Trust Fund, \$20,000, "Enhancing the Commercial Value of AMapi: an API for Additive Manufacturing Systems."

Sahley, Christie L; biological sciences, from Purdue Doctoral Program, \$25,078, "Blackwood, Paradyse."

Salazar, Kara A and Wilcox, Michael D; Illinois-Indiana Sea Grant, Cooperative Extension Service, from Jasper County, \$10,000, "Preparation of Updated Data and Community-Driven Review of the Jasper County Comprehensive Plan."

San Martin-Gonzalez, Maria Fernanda; food science, from Anna Martinez, \$81, "Multi-Sponsor Gift Funds."

Sanmiguel, Sandra F; Burgess, Wilella Daniels; McDavid, Martha Lindley; Parker, Loran Carleton; Lyle, Ladawn T and Simons, Micha C; veterinary medicine administration, Evaluation and Learning Research Center, education administration, comparative pathobiology, veterinary clinical sciences, from PHS-NIH National Institute of General Medical Science, \$270,000, "See Us-Be Us: Inspiring Future Veterinarians Using a Veterinary STEM Ecosystem."

Savikhin, Sergei F; physics & astronomy, from National Science Foundation, \$158,829, "REU Site: Multidisciplinary Physics at Purdue University (Grant 10001464 Amendment #1)."

Schoenlein to Umulis

Schoenlein, William E; biomedical engineering, from Cook Research Incorporated, \$243,879, "Pre-Clinical Evaluation Testing Agreement: Studies: CMH-VVSC, CMH-VPSC, CMH-INDY, CMH-SRMS, CMH-SPC2, CMH-TRAC, POC, and Sentinels."

Shalaev, Vladimir M and **Boltasseva, Alexandra;** electrical & computer engineering, from National Science Foundation, \$420,000, "Metaquantum: Hybrid Plasmonic-Photonic Meta-Structures for Quantum Information Systems." (a Discovery Park award – Birck Nanotechnology Center)

Shalaev, Vladimir M; electrical & computer engineering, from University of Michigan, \$60,675, "Near-Field Radiative Heat Transfer and Energy Conversion in Nanogaps of Nano- and Meta-Structured Materials; Amendment 2, Grant 13000775." (a Discovery Park award – Birck Nanotechnology Center)

Shi, Riye; basic medicine science, from Massachusetts General Hospital, \$94,757, "Targeting the Ubiquitous Oxidative Aldehyde Acrolein in MS."

Shih, Tom I-P; aeronautics and astronautics, from AMES Laboratory, \$75,000, "Computational Analysis of Advanced Cooling Strategies for High-Efficiency and Long-Service Life Gas Turbines; Amendment 2, Grant 14000477."

Shively, Gerald E; agricultural economics, from Tufts University, \$134,715, "Nutrition Innovation Lab Year 10 – Purdue 2019/2020."

Slabaugh, Carson D; aeronautics and astronautics, from National Aeronautics and Space Administration, \$20,000, "Propulsion Design, Build, Test: Hydrocarbon Propellant Delivery System; Modification 6, Grant 12000292."

Solomon, Kevin V; agricultural & biological engineering, from U.S. Department of Energy, \$147,640, "Genetic Tools to Optimize Lignocellulose Conversion in Anaerobic Fungi and Interrogate Their Genomes (Grant 14000453)."

Solorio, Luis; biomedical engineering, from Netherlands Cancer Institute, \$30,000, "Short-Term 3-D-Printing-Based Cultures of Metastatic Breast Cancer for Tailored Therapy Selection."

Son, Steven F and **Ornek, Metin;** mechanical engineering, from Air Force Office of Scientific Research, \$154,280, "Laue Backscatter X-Ray Diffractometer for Crystal Orientation Diagnostics of Single Crystal Energetic Materials."

Son, Steven F; mechanical engineering, from Air Force Office of Scientific Research, \$1,499,994, "Piezoenergetics – Coupled Piezoelectric and Nanoenergetic Materials with Tailorable and Switchable Reactivity (Grant 13000716)."

Son, Steven F; Manship, Timothy D and **Pourpoint, Timothee L;** mechanical engineering, materials engineering, aeronautics and astronautics, from Adranos Energetics LLC, \$36,000, "Dual-Use Al-Li Alloy Fuel for Solid Fuel Ramjets and Space Launch Platforms."

Song, Qifan and **Cheng, Guang;** statistics, from National Science Foundation, \$52,593, "High Dimensional Semiparametric Estimation and Inferences (Grant 1811812)."

Stanciu-Gregory, Lia A; materials engineering, from Jet Propulsion Laboratory, \$13,000, "A Novel Rapid Turaround Test for Detecting SARS-CoV2." (a Discovery Park award – Birck Nanotechnology Center)

Steinbach, Sarah M.L. and **Baird, Aubrey N;** veterinary clinical sciences, from Indiana University School of Medicine, \$2,709, "A Therapeutic Extracorporeal Medical Device for Renal Protection in COVID-19 Patients."

Sudhoff, Scott D and **Pekarek, Steven D;** electrical & computer engineering, from U.S. Department of Energy, \$299,998, "Multi-Objective Design Optimization of 100 kW Non-Rare-Earth or Reduced-Rare-Earth Electric Machines; Modification 3 for Grant #14000429."

Sundaram, Shreyas and **Pare, Philip Eugene;** electrical & computer engineering, from National Science Foundation, \$48,899, "Collaborative Research: Algorithmic and Graph-Theoretic Approaches to Optimal Sensor Placement in Complex Dynamical Systems."

Sutherland, John W; environmental & ecological engineering, from Ross Graduate Fellowship-Assistantship, \$32,677, "Gozun, Matthew J."

Taheripour, Farzad; agricultural economics, from National Biodiesel Board, \$50,000, "Land Use Change and Economic Analysis Research Proposal."

Tarko, Andrew P and **Romero, Mario A;** civil engineering, from Indiana Department of Transportation, \$157,630, "SPR-4537: Speed Management on Freeways in Transition Zones Between Rural and Urban Conditions."

Tarko, Andrew P and **Romero, Mario A;** civil engineering, from Indiana Department of Transportation, \$267,001, "SPR-4540: Incorporating Time Dependent Data to Pro-Active Safety Management – a Pilot Study."

Tarko, Andrew P and **Romero, Mario A;** civil engineering, from Indiana Department of Transportation, \$157,127, "SPR-4541: Roadside Barrier End Treatments: Safety Evaluation of INDOT Inventory and Practices."

Taylor, Lynne S; industrial and physical pharmacy, from Boehringer Ingelheim Pharmaceutical Inc, \$286,836, "Pushing Drug Loading Boundaries – Factors Impacting Release Performance of HPMCAS-Based Dispersions."

Telenko, Darcy E P; botany & plant pathology, from Syngenta Crop Protection Inc., \$27,300, "Extension Voluntary Support."

Telenko, Darcy E P; botany & plant pathology, from Corteva Agriscience, \$9,500, "Extension Voluntary Support."

Telenko, Darcy E P; botany & plant pathology, from Multi-Sponsored Industrials, \$2,000, "Extension Voluntary Support."

Tisdale, James E; pharmacy practice, from University of Utah, \$30,603, "Dissemination and Implementation of QT Risk Clinical Decision Support; Amendment 1, Grant 11000996."

Toombs, Austin L; computer graphics technology, from Purdue University Frederick N. Andrews Fellowship, \$31,668, "Naik, Suchismita."

Topp, Elizabeth M; industrial and physical pharmacy, from Monon Bioventures LLC, \$171,142, "Soluble, Solution-Stable Phospho-Glucagon for Hypoglycemic Rescue; Amendment 1, Grant 11000870."

Trader, Darci J; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$373,310, "Monitoring and Manipulating the Activity of the Immunoproteasome with Small Molecules."

Umulis, David M; agricultural & biological engineering, from Indiana University, \$87,267, "Competitive Renewal of Development, Improvement and Extension of the Tissue Simulation Environment – CompuCell3D."

Uyeda to Zollner

Uyeda, Christopher H; chemistry, from PHS-NIH National Institute of General Medical Science, \$370,571, "Transition Metal Catalyzed Reductive Carbene Transfer Reactions (Grant 11000630)."

Varala, Kranthi K and Li, Ying; horticulture and landscape architecture, from U.S. Department of Energy, \$403,144, "InferNet: Gene Function Inference by Leveraging Large, Organ-Specific Expression Datasets and Validation of Non-Redundant Regulators; Modification 1, Grant 14000458."

Vyn, Tony J; agronomy, from Pivot Bio, \$60,000, "Agricultural Cropping Systems."

Wang, Fuqiang and Xie, Wei; physics & astronomy, from U.S. Department of Energy, \$38,000, "Study QCD Matter Under Extreme Conditions by Particle Correlation and Heavy Flavor Probes in Relativistic Heavy Ion Collisions."

Wang, Haiyan; materials engineering, from National Science Foundation, \$480,000, "Novel Two Phase Vertically Aligned Nanocomposites Beyond Oxides."

Wang, Hui-Hui; agricultural sciences education and communication, from Ross Graduate Fellowship-Assistantship, \$31,668, "Iyakaremye, Jean Paul."

Wang, Jing; mathematics, from National Science Foundation, \$43,811, "Degenerate Diffusions and Related Heat Kernel Estimates (Grant 10001548)."

Ward, Matthew Peter; biomedical engineering, from PHS-NIH Office of the Director, \$604,884, "High Resolution, Noninvasive Measurement and Functional Classification of Vagal Nerve Response Patterns in Relation to Gastroparesis Symptom Management Using Gastric Electrical Stimulation Therapy."

Weiner, Andrew M; electrical & computer engineering, from Freedom Photonics, LLC, \$64,491, "Integrated Photonic Quantum Frequency Processor for High-Dimensional QIP"

Weiner, Andrew M; electrical & computer engineering, from Purdue University Frederick N. Andrews Fellowship, \$32,677, "Annur Myilswamy, Karthik Vijay."

Wharry, Janelle P; nuclear engineering, from U.S. Department of Energy, \$150,000, "Irradiation Tailoring of Deformation-Induced Phase Transformation (Grant 14000448, Modification 1)."

Whelton, Andrew J; civil engineering, from Purdue Doctoral Program, \$32,677, "Ley, Christian."

Whelton, Andrew J and Proctor, Caitlin R; civil engineering, environmental & ecological engineering, from National Science Foundation, \$165,000, "EAGER: Initiating a Transformative Building Water System Research Collaborative in Rapid Response to the COVID-19 Pandemic."

Williams, Christopher S and Frosch, Robert J; civil engineering, from Indiana Department of Transportation, \$18,000, "Repair and Strengthening of Bridges in Indiana Using Fiber Reinforced Polymer (FRP) Systems."

Wirth, Mary J; chemistry, from Center for Bioanalytic Metrology, \$50,000, "Chromatographic Analysis of Ultralarge Native Proteins."

Wolff, James M and Blanchard, Jered C; field extension, nutrition science, from Health Visions Midwest Inc, \$6,420, "HEAL Market Partnership."

Won, You-Yeon; chemical engineering, from Spirrow Therapeutics LLC, \$40,000, "Polymer Lung Surfactant Therapy COVID 19."

Xu, Yunlin; nuclear engineering, from Argonne National Laboratory, \$27,798, "Improving Convergence of GPASS."

Ye, Peide; electrical & computer engineering, from Ross Graduate Fellowship-Assistantship, \$32,677, "Zhao, Tongyang."

Yeo, Yoon; industrial and physical pharmacy, from Trask Trust Fund, \$25,000, "Abxtal for Cancer Immunotherapy."

Zhang, Guangjun; comparative pathobiology, from PHS-NIH National Institute of General Medical Science, \$376,214, "Roles of Bioelectricity of Ion Channels in Developmental Patterning and Oncogenesis (Grant 11000632)."

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from Ross Graduate Fellowship-Assistantship, \$31,668, "Dwyer, Tiffany S."

Zhang, Zhong-Yin; medicinal chemistry & molecular pharmacology, from Ross Graduate Fellowship-Assistantship, \$31,668, "Zhao, Austin Yunxuan."

Zheng, Wei and Freeman, Jennifer L; health sciences, from National Institutes of Health, \$9,850, "Lead Exposure and Beta-Amyloid Transport by Brain Barriers."

Zhou, Chenn Qian; mechanical & civil engineering, from Charter Steel, \$25,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

Zhou, Chenn Qian and Okosun, Tyamo; Center for Innovation through Visualization and Simulation, Academic Programs Administration, from U.S. Steel Corporation, \$9,995, "CFD Modeling of Tuyere Design at U.S. Steel Gary Works."

Zhu, Jian-Kang; horticulture and landscape architecture, from Konkuk University, \$57,952, "2020-2023 Letter of Agreement to Conduct Collaborative Research-Plant Stress Research for Climate Change."

Zollner, Patrick A; forestry & natural resources, from Animal Plant Health Inspection Service, \$5,500, "Black Vulture Research: Perceived and Actual Depredation Events of Cattle, Instructional Sessions, and Risk Assessments for Cattle Producers in Southern Indiana." ■

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