

## Abbott to Bolin

**Abbott, Angela R** and **Eakin, Annie Colleen Melick**; health and human sciences administration, nutrition science, from Gene B. Glick & Marilyn Foundation, \$10,000, "Glick -Lawrence County."

**Adeola, Olayiwola**; animal sciences, from Danisco Animal Nutrition, \$25,000, "Danisco."

**Ajuwon, Kolapo**; animal sciences, from Ag Processing Inc, \$10,000, "DSM Poultry Research."

**Akridge, Jay T**; Office of Provost Administration, from Lilly Endowment Inc., \$500,000, "Charting the Future for Indiana Colleges and Universities Planning Grant."

**Alexeenko, Alina**; aeronautics & astronautics, from IMA Life, \$10,000, "LyoHub Consortium- IMA Life."

**Aliaga, Daniel G** and **Rauh, Nicholas Kregotis**; computer science, language & culture, from National Science Foundation, \$65,000, "EAGER: M3: Minimal 3-D Modeling Methodology."

**Allen-Petersen, Brittany Lee**; biological sciences, from Showalter Trust, \$75,000, "The Role of PP2A B56a in Regulating Pancreatic Tumorigenesis."

**Alsop, Janet M**; curriculum & instruction, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,634, "2021 ES SRG."

**Alsop, Janet M**; curriculum & instruction, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,634, "2021 CI SRG."

**Anderson, Theresa C**; mathematics, from National Science Foundation, \$180,000, "Some Problems at the Interface of Analysis and Number Theory."

**Armstrong, S Dorsey**; English, from Purdue Research Foundation (PRF) Summer Research Grants, \$31,902, "2021 ENGL SRG."

**Aryal, Uma K** and **Buhman, Kimberly K**; comparative pathobiology, nutrition science, from Showalter Trust, \$75,000, "Proteomic Analysis of Endogenous Protein Complexes and Phosphorylation in the Liver of Diet-Induced Obese Mice."

**Axelrod, Abram J** and **Olson, Matthew**; medicinal chemistry & molecular pharmacology, biological sciences, from Showalter Trust, \$75,000, "Engineering Macrophage Polarization through an Immunoglobulin G/ Histidine Rich Glycoprotein Hybrid."

**Bailey, Regan K**, **Bhadra, Anindya** and **Eicher-Miller, Heather A**; nutrition science, statistics, from PHS-NIH National Cancer Institute, \$342,157, "Development of a Total Nutrient Index."

**Banda, Jorge A** and **Ruiz, Yumary**; public health, from Kinley Trust, \$20,000, "A Pilot Intervention to Increase Sports Enjoyment and Physical Activity in Girls."

**Bao, Xiaoping**; chemical engineering, from Showalter Trust, \$75,000, "Rapid and Efficient Generation of Off-the-Shelf Immune Cells from Human Pluripotent Stem Cells (hPSCs) for Cancer Immunotherapy."

**Beaulieu, Lionel J**; **Grismer, Melinda A**; **Gallardo, Roberto** and **Zhalnin, Andrey**; Purdue Center for Regional Development, Cooperative Extension Service, Indiana Science Technology Engineering and Mathematics Resource Network, from Indiana Office of Community & Rural Affairs, \$100,000, "The Rural Road to Recovery."

**Beaulieu, Lionel J**; **Gallardo, Roberto**; **Grismer, Melinda A** and **Zhalnin, Andrey**; Purdue Center for Regional Development, Cooperative Extension Service, Indiana Science Technology Engineering and Mathematics Resource Network, from Greater Lafayette Community Foundation, \$10,000, "WHIN Grant for Purdue Center for Regional Development."

**Beckerman, Janna L**; botany & plant pathology, from BASF Corporation, \$5,000, "BASF Test Agreement."

**Beheler, Brian D**; forestry & natural resources, from Wabash River Enhancement Corp, \$6,000, "Martell Forest Rock Chute Construction for Erosion Control."

**Bingham, Clifton W**; computer science, from National Science Foundation, \$16,000, "FAI: Identifying, Measuring, and Mitigating Fairness Issues in AI (Grant 10001622, Amendment #1)."

**Bolin, Jeffrey T**; Research Development administration, from Purdue Research Foundation, \$31,119, "FY20-21 PRF Grants (60000029)."

**Bolin, Jeffrey T**; Research Development administration, from Purdue Research Foundation, \$31,119, "FY20-21 PRF Grants (60000029)."

**Bolin, Jeffrey T**; Executive Vice President for Research and Partnerships administration, from Purdue Research Foundation, \$10,400, "FY20-21 PRF Grants (60000029)."

**Bolin, Jeffrey T**; Executive Vice President for Research and Partnerships administration, from Purdue Research Foundation, \$10,337, "FY20-21 PRF Grants (60000029)."

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**Bolin, Jeffrey T**; Executive Vice President for Research and Partnerships administration, from Purdue Research Foundation, \$6,000, "FY20-21 PRF Grants."

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**Bolin, Jeffrey T**; Executive Vice President for Research and Partnerships administration, from Purdue Research Foundation, \$10,400, "FY20-21 PRF Grants (60000029)."

## Bolin to Chen

**Bolin, Jeffrey T**; Executive Vice President for Research and Partnerships administration, from Purdue Research Foundation, \$31,119, "FY20-21 PRF Grants (60000029)."

**Bolin, Jeffrey T**; Executive Vice President for Research and Partnerships administration, from Purdue Research Foundation, \$10,400, "FY20-21 PRF Grants (60000029)."

**Boltasseva, Alexandra** and **Shalaev, Vladimir M**; electrical & computer engineering, from Breakthrough Prize Foundation, \$150,000, "Exploring Materials and Nanophotonic Structures for LightSail: from Temperature-Dependent Properties to Global Design Optimization." (a Discovery Park award – Birck Nanotechnology Center)

**Bouman, Charles A**; electrical & computer engineering, from Showalter Trust, \$60,000, "Showalter Professorship 2020."

**Bouman, Charles A**; electrical & computer engineering, from Eli Lilly and Company, \$90,000, "Development of Software Tool Exploiting Novel Algorithms for Reconstructing High Quality Time Varying 3-D Images from Limited Xray CT Data and Synchrotron Data."

**Bramson, Ali M**; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, \$154,266, "The Mass Balance of Polar Ice on Mars from the Migration of Spiral Troughs."

**Brightman, Andrew O**; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$37,794, "2019-20 Joint PhD Program Graduate Support – Chun-Yi Chang."

**Brito, Luiz Fernando; Rojas de Oliveira, Hinayah** and **Schinckel, Allan P**; animal sciences, from National Institute of Food and Agriculture, \$485,000, "Improving the Welfare and Productivity of Lactating Sows During Heat Stress Events through Genomics."

**Brooke, Jarred M** and **Zischke, Mitchell T**; forestry & natural resources, from Mississippi State University, \$12,048, "Podcasting to Expand Engagement to Private Landowners and Natural Resource Professionals with Natural Resources University."

**Brooks, Aimee C; Ramesh, Meera; Fulkerson, Caroline V; Johnson, Paula A; Parnell, Nolie K; Thomovsky, Elizabeth J** and **Weng, Hsin-Yi**; veterinary clinical sciences, comparative pathobiology, from Royal Canin SAS, \$6,932, "Comparison of 4 Point-of-Care Techniques to Detect Correct Positioning of Nasogastric Tubes in Dogs."

**Buczkowski, Grzegorz A**; entomology, from BASF Corporation, \$4,500, "Vedira PT Pressurized Insecticide and Vedira Granular Insecticide for House Fly Control."

**Buczkowski, Grzegorz A**; entomology, from BASF Corporation, \$4,500, "Field Evaluation of Fendona Cs Against Fleas in Turf."

**Buganza Tepole, Adrian**; mechanical engineering, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$463,726, "Multi-Scale Modeling to Predict Long-Term Growth and Remodeling of Skin in Response to Stretch (Grant 11000891 Amendment #2)."

**Bullock, Darcy M**; civil engineering, from Indiana Department of Transportation, \$375,000, "SPR-4536 Implementation of Enhanced Probe Data (CANBUS) for Tactical Workzone and Winter Operations Management."

**Bullock, Darcy M**; civil engineering, from Indiana Department of Transportation, \$78,000, "Enhanced Traffic Signal Performance Measures TPF-5(377)."

**Bullock, Darcy M**; civil engineering, from Indiana Department of Transportation, \$27,000, "Enhanced Traffic Signal Performance Measures; Amendment 5, 21000232."

**Bullock, Darcy M**; civil engineering, from Indiana Department of Transportation, \$82,980, "Evaluation of the Impact of on Vehicle Digital Communication Alerts to Improve INDOT and Motorist Safety."

**Butzke, Christian E**; Purdue Wine Grape Team, from Sweetney, Janet L, \$1,250, "Wine Grape Program."

**Buzzard, Gregory T**; Mathematics, from Purdue Research Foundation (PRF) Summer Research Grants, \$69,121, "2021 Math SRG."

**Byrn, Stephen Robert**; industrial & physical pharmacy, from Bill & Melinda Gates Foundation, \$110,921, "Salt Screening Study."

**Cabot, Birgit**; animal sciences, from Purdue Doctoral Program, \$31,894, "Innis, Sarah, M."

**Cakmak, Mukerrem**; mechanical engineering, from University of Connecticut, \$200,000, "Tracking, Diagnosing and Arresting Dielectric Breakdown Using Multiscale Characterization and Simulations; Amendment 3 (Grant 13000577)." (a Discovery Park award – Birck Nanotechnology Center)

**Cakmak, Mukerrem; Liu, Yangfan** and **Rahimi, Rahim**; engineering administration, mechanical engineering, materials engineering, from Palo Alto Research Center, \$85,000, "Flexible Multi-Sensor Platform with Wireless and Audio Output." (a Discovery Park award – Birck Nanotechnology Center)

**Camberato, James J**; agronomy, from Agrium U.S., Inc., \$7,500, "Multi Sponsored."

**Camberato, James J** and **Nielsen, Robert L**; agronomy, from Walton Family Foundation, \$31,000, "Contribution of an Endophytic Diazotroph to the Nitrogen Requirement of Corn."

**Carroll, Chad C** and **Campbell, Wayne W**; health & kinesiology, nutrition science, from National Cattlemen's Beef Association, \$324,442, "Effect of Incorporating Lean Beef into a Protein-Rich Diet During Resistance Training Program on Skeletal Muscle and Connective Tissue Strength and Quality in Older Women."

**Caruthers, James M**; chemical engineering, from Trask Trust Fund, \$50,000, "Composite Board Binder Systems from Rice Lignin."

**Casteel, Shaun N**; agronomy, from Brandt Consolidated, \$18,000, "Soybean Extension Research."

**Castillo, Luciano**; mechanical engineering, from Intel Corporation, \$195,000, "Multi Sponsored."

**Caviglia, Giulio**; mathematics, from Simons Foundation, \$42,000, "Uniform Bounds in Commutative Algebra."

**Chan, Stanley H**; electrical & computer engineering, from Intel Corporation, \$10,000, "Multi Sponsor – Voluntary Support."

**Chang, Leifu**; biological sciences, from Ross Graduate Fellowship-Assistantship, \$6,076, "Wang, Shukun."

**Chen, Jun**; mechanical engineering, from National Science Foundation, \$259,171, "EAGER: Development of a Novel Rotating Wind Tunnel for 3-D Study of Turbulent Flow."

## Chen to Edwards

**Chen, Zhihong** and **Appenzeller, Joerg**; electrical & computer engineering, from Intel Corporation, \$150,000, "Giant Inverse Spin Hall Effect for MESO Device Readout." (a Discovery Park award – Birck Nanotechnology Center)

**Chopra, Gaurav**; chemistry, from Center for Bioanalytic Metrology, \$100,000, "Molecular Identification Using Machine Learning and Multiple Reaction Monitoring (MRM) Profiling."

**Chubykin, Alexander A**; biological sciences, from PHS-NIH National Institute of Mental Health, \$373,253, "Neural Mechanisms of Predictive Impairments in Autism (Grant 11000649 Amendment #3)."

**Connor, Robert J**; civil engineering, from Indiana Department of Transportation, \$50,000, "Development of an Integrated Unmanned Aerial Systems (UAS) Validation Center, Grant 21000236."

**Connor, Robert J**; civil engineering, from Indiana Department of Transportation, \$90,000, "Steel Bridge Research, Inspection, Training and Education Engineering Center (S-BRITE)."

**Connor, Robert J**; civil engineering, from Indiana Department of Transportation, \$40,000, "Development of Criteria to Assess the Effects of Pack-Out Corrosion in Built-Up Steel Members, Grant 21000270."

**Couture, John J**; forestry & natural resources, from North Carolina a & T University, \$12,500, "Integrative Research for Sustainable Crucifer Production: Pest Management, Soil Health and Profitability."

**Cross, Tzu Wen L**; nutrition science, from Showalter Trust, \$75,000, "The Interplay Between the Gut Microbiome and the Endocrine System."

**Crossley, William A**; aeronautics & astronautics, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,634, "2021 AA SRG."

**Cui, Xingshan**; mathematics, from National Science Foundation, \$174,258, "Collaborative Research: Fet: Small: Topological Quantum Computing Beyond Anyons."

**Czerwionka, Lori A**; **Nauman, Eric A**; **Tort, Joseph M** and **William, Jennifer M**; language & culture, mechanical engineering, professional practice, from National Endowment for the Humanities, \$35,000, "Integrating the Humanities and Global Engineering."

**Cziczko, Daniel James**; earth, atmospheric & planetary sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 EAP SRG."

**Cziczko, Daniel James**; earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, \$133,352, "Dynamics and Chemistry of the Summer Stratosphere – Sup 5 for Grnt #12000300."

**Davis, Frederick R**; history, from Purdue University F N Andrews Fellowship, \$36,449, "Boyer,Yvonne,A."

**Davis, Frederick R**; history, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,634, "2021 HIS SRG."

**Deering, Amanda J** and **Monroe, James Scott**; food science, field extension, from Indiana State Department of Health, \$146,411, "State and Territory Cooperative Agreement to Enhance Produce Safety in Preparation of Implementation of FDAs Rule: Standards for the Growing, Harvesting, Packing, & Holding of Produce for Human Consumption."

**DeLaurentis, Daniel A**; aeronautics & astronautics, from Charles Stark Draper Laboratory, Inc., \$123,645, "Draper Assistantship 20-21." (a Discovery Park award – Institute for Global Security and Defense Innovation)

**DeLaurentis, Daniel A** and **Ezra, Kristopher L**; aeronautics & astronautics, from Lockheed Martin Corp., \$16,968, "Initial Engineer Model and Simulation (SMARTset) Deployment and Operator Training." (a Discovery Park award – Institute for Global Security and Defense Innovation)

**DeLaurentis, Daniel A** and **Ezra, Kristopher L**; aeronautics & astronautics, from Lockheed Martin Corp., \$150,156, "LMC Integrated Air and Missile Defense Mission Analysis."

**DeLaurentis, Daniel A**; **Ezra, Kristopher L** and **Kenley, Charles Robert**; aeronautics & astronautics, industrial engineering, from Lockheed Martin Corp., \$65,010, "Initial Engineer Model and Simulation (SMARTset) Deployment and Operator Training." (a Discovery Park award – Institute for Global Security and Defense Innovation)

**DeLaurentis, Daniel A**; aeronautics & astronautics, from Science Applications International, \$195,000, "FC 52 OY4 ROM for TI-403 NEMS (Mod15-PO Line 26) (Grant 13000889)." (a Discovery Park award – Institute for Global Security and Defense Innovation)

**DeLaurentis, Daniel A** and **Ezra, Kristopher L**; aeronautics & astronautics, from Dynetics, Inc, \$61,847, "Dynetics -Task 2 SOW Planning Research & Analysis." (a Discovery Park award – Institute for Global Security and Defense Innovation)

**Deshmukh, Abhijit V**; industrial engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$15,951, "2021 IE SRG."

**Diclementi, Jeannie D**; psychology, from Substance Abuse, Mental Health Services Administration, \$122,962, "Purdue Aware: Helping Our Students through Faculty and Staff Training (Grant 11000765 Amendment # 2)."

**Dilkes, Brian** and **Benke, Ryan L**; biochemistry, from National Institute of Food & Agriculture, \$180,000, "Metabolic and Genetic Characterization of Maize Lesion Mimic Mutants."

**Doudareva, Natalia**; biochemistry, from Purdue University F N Andrews Fellowship, \$32,504, "Lee, Ji Hee."

**Douglas, Kerrie A**; engineering education, from National Science Foundation, \$226,322, "Collaborative Research: Fostering Engineering Innovation and Communication through Immediate and Personalized 2D-Perspective Drawing Feedback."

**Douglas, Kerrie A**; engineering education, from National Science Foundation, \$23,037, "Collaborative Research: RAPID: Approaches to Online Implementation and Social Support in Undergraduate Engineering Courses (Grant 10001659)."

**Drineas, Petros S**; computer science, from National Science Foundation, \$8,000, "CCF-BSF: AF: Small: Collaborative Research: Practice-Friendly Theory and Algorithms for Linear Regression Problems."

**Edwards, Nancy E**; nursing, from Indiana State Department of Health, \$50,000, "Family Health Clinic of Carroll County: Increasing Access for Rural Populations Supplement."

**Edwards, Nancy E**; North Central Nursing Clinic Administration, from Health Resources & Services Administration, \$215,164, "FY 2020 Expanding Capacity for Coronavirus Testing (ECT)."

**Edwards, Nancy E**; nursing, from Health Resources & Services Administration, \$548,739, "Health Center Cluster (Grant 11000493)."



## Eicher-Miller to Goergen

**Eicher-Miller, Heather A** and **Bailey, Regan K**; nutrition science, from University of Kentucky Center for Poverty Research, \$50,000, "Total Nutrient Intake, Dietary Nutrient Intake and Dietary Quality of U.S. Seniors Using Federal and Non-Federal Food Assistance."

**Emir, Uzay E** and **Keehn, Brandon M**; health sciences, speech, language, and hearing sciences, from Showalter Trust, \$75,000, "Investigating the Cerebellar Crus I Abnormalities in Autism Spectrum Disorders Using Ultra-High Resolution Magnetic Resonance Spectroscopy Imaging."

**Enders, Laramy S** and **French, Elizabeth A**; entomology, botany & plant pathology, from National Institute of Food & Agriculture, \$163,315, "Molecular Basis of Microbiome-Mediated Defense Against Aphid Herbivory in Tomato."

**Erasmus, Marisa A**; animal sciences, from Agricultural Research Service, \$10,000, "Effects of Probiotics and Synbiotics on Skeletal Health in Broiler Chickens."

**Evans, Janice Perry**; biological sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$21,268, "2021 BIOSCI SRG."

**Evans, Janice Perry**; biological sciences, from PHS-NIH National Institute of Child Health and Human Development, \$329,375, "The Oocytes Progression through Meiosis: Involvement of a Heart Disease-Associated Protein (Grant 11000937, Amendment #2)."

**Fekete, Donna M** and **Heinz, Michael G**; biological sciences, speech, language, and hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$185,502, "Interdisciplinary Training in Auditory Neuroscience."

**Field, William E**; agricultural & biological engineering, from Erin E Holbert, \$750, "Breaking New Ground."

**Field, William E; Chastain, Cindra M; Ballard, Roy W** and **Sheldon, Edward J**; agricultural & biological engineering, Agricultural Administration, from Hoosier Uplands Economic Development Corp, \$116,575, "Enhancing Agricultural Opportunities for Military Veterans."

**Field, William E**; agricultural & biological engineering, from Stacey Lynn Brittsan, \$50, "Breaking New Ground."

**Field, William E** and **Nour, Mahmoud M**; agricultural & biological engineering, from National Children's Center, \$4,946, "Developing Strategic Educational Content for Young and Beginning Workers Exposed to Manure-Related Hazards."

**Field, William E**; agricultural & biological engineering, from Monsanto Company, \$5,000, "Breaking New Ground."

**Fineran, Kerrie R; Sellhorn, Brooke N; Givens, Joel G.** and **Wilkinson, Brett D**; education, from Federal Communications Commission, \$34,982, "Purdue Fort Wayne Community Counseling Center Mental Health Tele-Outreach."

**Finley, John P**; physics & astronomy, from Purdue Research Foundation (PRF) Summer Research Grants, \$31,902, "2021 Physics SRG."

**Flaherty, Daniel P; Das, Chittaranjan** and **Ha, Lisha**; medicinal chemistry & molecular pharmacology, chemistry, from University of Rochester, \$390,073, "Antibacterial Inhibitors of RnpA (Grant 11000752, Amendment #2)."

**Flaherty, Elizabeth A**; forestry & natural resources, from State of Maine, \$60,193, "Role of Anthropogenic Foods in the Diet of Black Bears in Maine."

**Fleet, James C; Dilkes, Brian; Weaver, Connie M** and **Kazemian, Abdolmajid**; nutrition science, biochemistry, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$456,444, "Nutrigenetics of Intestinal Ca Absorption (Grant 11000932, Amendment #1)."

**Foster, Ricky E; Pearson, Austin M; Scott, John R; Ackerson, Jason P; Shanks, Adam C; Schmitz, Hans F; Eck, Kenneth J; Overstreet, Bryan K; Carter, Mark D; Heidenreich, Abigail E; Van Pelt, Crystal D; Westfall, Andrew T** and **Lanzone, Kurt Joseph**; Cooperative Extension Service, field extension, agricultural administration, agronomy, from Heartland Career Center, \$3,500, "Curriculum Development of New Agriculture Programs."

**Fouche, Rayvon D**; interdisciplinary programs, from Purdue Doctoral Program, \$32,504, "Veronica Lynette Coates Ahmed."

**French, Doran C**; human development and family studies, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 HDFS SRG."

**Frosch, Robert J** and **Williams, Christopher S**; civil engineering, from National Academy of Sciences, \$740,000, "Design and Construction Specifications for Bonded and Unbonded Post-Tensioned Concrete Bridge Elements, Modification 1; Grant 16100093."

**Gallardo, Roberto**; Purdue Center for Regional Development, from University of Nebraska-Lincoln, \$4,650, "Increasing Rural Civic Engagement."

**Garman, Christina L**; computer science, from National Science Foundation, \$16,000, "SaTC: CORE: Small: Collaborative: Building Sophisticated Services with Programmable Anonymity Networks (Grant 10001426)."

**Garrison, James L**; aeronautics & astronautics, from National Aeronautics and Space Administration, \$97,045, "Root-Zone and Surface Soil Moisture Retrieval from L, P and S-Band Signals of Opportunity (SoOp) Reflectometry; Supplement 3, Grant 12000248."

**Gavin, Timothy P**; health & kinesiology, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,634, "2021 HK SRG."

**Ghiselli, Richard F**; hospitality & tourism management, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,634, "2021 HTM SRG."

**Ghosh, Arun K**; medicinal chemistry & molecular pharmacology, from University of California – Santa Cruz, \$186,716, "Mechanisms of the Spliceosome Protein SF3B1 and Inhibitors."

**Gibson, Kevin D; Ahasteen-Bryant, Felica T; Ridgway, Kenneth D; McDermott, Jacqueline E; Zollner, Patrick A** and **Zywicki, Stephanie M**; botany & plant pathology, Native American Educational & Cultural Center, earth, atmospheric & planetary sciences, engineering administration, forestry & natural resources, curriculum & instruction, from Alfred P. Sloan Foundation, \$1,089,403, "The Sloan Indigenous Graduate Partnership: a Force for Change."

**Ginzel, Matthew D**; entomology, from Arbor America Inc, \$20,000, "Multi Sponsor."

**Goergen, Craig J**; biomedical engineering, from University of Cape Town, \$11,000, "Support for Hannah Cebull – Summer 2020."

## Gomez Diaz to Hrycyna

**Gomez Diaz, Hector**; mechanical engineering, from Air Force Office of Scientific Research, \$600,000, "Role of Non-Condensable Gas on Cavitation Inception."

**Goodsell, Johnathan Eugene; Cutting, Rebecca A and Sommer, Drew E**; Composites Manufacturing and Simulation Center, from University of Tennessee, \$98,608, "Thermal Instability in the Manufacturing of Wind Turbine Blade Spar Caps – Phase II."

**Goosen, Robert K; Hartman, Nathan W and Mansson, Jan-Anders E**; Technical Assistance Program/ Manufacturing Extension Partnership, computer graphics technology, chemical engineering, from National Institute of Standards & Technology, \$1,000,000, "Implementing Small Manufacturer Assistance with Robotic Technologies (I-SMART) Program."

**Govindaraju, Rao S**; civil engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,634, "2021 CE SRG."

**Gowher, Humaira**; biochemistry, from PHS-NIH National Institute of General Medical Science, \$350,535, "Regulation of Dnmt3 Activity at Enhancers of Cell Identity Genes During Differentiation (Grant 11000616 Ameend #3)."

**Granger, Darryl E**; earth, atmospheric & planetary sciences, from National Science Foundation, \$240,186, "Collaborative Research:Quantifying Controls on Weathering of Volcanic Arc Rocks."

**Greene, Christopher H**; physics & astronomy, from U.S. Department of Energy, \$155,000, "Physics of Correlated Systems (Grant 14000225)."

**Greene, Christopher H**; physics & astronomy, from National Science Foundation, \$124,476, "Few-Body Quantum States and Interactions (Grant 10001507)."

**Grismer, Melinda A and Duval-Couetil, Nathalie A L**; Purdue Center for Regional Development, technology leadership and innovation, from Indiana Minority Health Coalition, \$39,728, "Latino Community Health Needs and Workforce Assessment."

**Groll, Eckhard A**; mechanical engineering, from Engineers without Borders USA, \$45,390, "Combined Heating and Cooling for Agricultural Applications."

**Groll, Eckhard A**; mechanical engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$26,585, "2021 ME SRG."

**Groll, Eckhard A**; mechanical engineering, from Engineers without Borders USA, \$47,390, "Cold Storage Battery for Domestic Refrigeration."

**Gupta, Sumeet Kumar and Roy, Kaushik**; electrical & computer engineering, from National Science Foundation, \$499,998, "FET: Small: Ferroelectric Transistor Based Spiking Neural Networks with Adaptive Learning for Edge AI: from Devices to Algorithms."

**Haddock, John E**; civil engineering, from Indiana Department of Transportation, \$100,000, "SPR-4452 Demonstration Project for Asphalt Performance Engineered Mixture Design Testing."

**Haelewaters, Danny**; botany & plant pathology, from National Science Foundation, \$180,208, "Collaborative Research: Pursuit: in Pursuit of a Phylogenetic, Genomic and Functional Framework for the Environmentally Diverse and Poorly Characterized Fungal Class, Leotiomycetes."

**Handa, Avtar Krishan**; horticulture and landscape architecture, from Higher Education Commission Pakistan, \$3,460, "Bench Fees – Zunaira Riaz."

**Handwerker, Carol A; Zhao, Fu; Sutherland, John W and Iyer, Ananth V**; materials engineering, mechanical engineering, environmental & ecological engineering, Management, from Ames Laboratory, \$500,000, "Critical Material Institute Year 8 and 9."

**Hastak, Makarand**; construction engineering & management, from University of Texas at Austin, \$34,206, "CII RT-371."

**Heister, Stephen D**; aeronautics & astronautics, from National Aeronautics and Space Administration, \$79,300, "Study of Detonation Wave Attenuation in Two-Phase Flows – Nathan Ballintyn."

**Hendrix, Gena K**; comparative pathobiology, from Food and Drug Administration, \$41,400, "CVM Vet-LIRN Veterinary Diagnostic Laboratory Program."

**Hill, John E**; educational studies, from Ball State University, \$275,434, "Hoosier STEM Academy Program 2019-2021."

**Hontani, Yukiko**; educational studies, from University of Montana, \$98,766, "A Model to Advance Native American STEM Faculty."

**Hook, Tomas O; Carlton, Joshua S; Collingsworth, Paris D and Salazar, Kara A**; forestry & natural resources, Illinois-Indiana Sea Grant, from National Oceanographic & Atmospheric Administration, \$1,609,919, "Extending Impact of U.S. EPAs Great Lakes National Program Office Using Sea Grant Outreach Capacity."

**Hosseini, Mahdi**; electrical & computer engineering, from Guided Particle Systems, Inc, \$15,000, "AFWERX STTR X20.A." (a Discovery Park award – Birk Nanotechnology Center)

**Hountz, Randall A**; industrial engineering, from Indiana State Department of Health, \$67,339, "Systems Change Partnerships – Quality Improvement Services." (a Discovery Park award – Regenstrief Center)

**Hoverman, Jason T; Flynn, Robert W; Hoskins, Tyler D; Lee, Linda S and Sepulveda, Maria Soledad**; forestry & natural resources, agronomy, from Strategic Environmental Research and Development Program, \$215,316, "The Relative Toxicities of Current Use Aqueous Film Forming Foams and Next Generation Alternatives to Aquatic Species for Informing Risk Assessment."

**Hoverman, Jason T**; forestry & natural resources, from Purdue University F N Andrews Fellowship, \$32,504, "Andrew, P Hopkins."

**Howell, Kathleen**; aeronautics & astronautics, from National Aeronautics and Space Administration, \$80,000, "Autonomous Spacecraft Trajectory Design via Reinforcement Learning – Fellowship for Nicholas Lafarge."

**Howell, Kathleen**; aeronautics & astronautics, from National Aeronautics and Space Administration, \$80,000, "Trajectory Design and Targeting for Applications to the Exploration Program in Cislunar Space – Emily Spreen."

**Hrycyna, Christine A**; chemistry, from Stony Brook University, \$125,528, "Observations, Analysis, and Modeling Applied to Determination of CO<sub>2</sub> and CH<sub>4</sub> Emission Rates Along the U.S. East Coast."

**Hrycyna, Christine A**; chemistry, from Purdue Research Foundation (PRF) Summer Research Grants, \$95,706, "2021 CHEMY SRG."

## Hu to Knobloch

**Hu, Jianghai**; electrical & computer engineering, from National Science Foundation, \$224,629, "Collaborative Research: Distributed Mechanism Design with Learning Guarantees: Resource Allocation Among Networked Strategic Agents."

**Hu, Y Charlie**; electrical & computer engineering, from Intel Corporation, \$58,333, "Intel Gift Letter for Y. Charlie Hu."

**Hung, Chen-Lung**; physics & astronomy, from Air Force Office of Scientific Research, \$138,226, "Long-Range Quantum Magnetism in Atom-Nanophotonic Hybrid Lattices."

**Hystad, Grethe**; mathematics, statistics & computer science, from Carnegie Institution of Washington, \$15,000, "Natural Kind Clustering of Minerals."

**Ileleji, Klein**; agricultural & biological engineering, from Endress+Hauser Wetzler USA, \$2,287, "Multi Sponsored Gift."

**Iyer, Ananth V**; Management, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 MANG SRG."

**Iyer-Pascuzzi, Anjali** and **McNickle, Gordon G**; botany & plant pathology, from Geometric Data Analytics, Inc, \$80,000, "Shape Analytics for in Situ Fine Root Measurements."

**Jacob, Zubin**; electrical & computer engineering, from National Science Foundation, \$91,975, "CAREER: Controlling Single Photon Interactions with K-Surface Engineered Nanomaterials (Grant 10001104, Amendment #3)."

**Jacobs, Douglass F**; forestry & natural resources, from National Institute of Food & Agriculture, \$25,000, "Forest Seedling Root Development and Function for Reforestation."

**Jacobs, Douglass F**; forestry & natural resources, from U.S. Forest Service, \$25,686, "Applying the Target Plant Concept to Promote Forest Regeneration and Restoration."

**Jafvert, Chad T**; civil engineering, from AMIDEAST – Fulbright, \$16,943, "AMIDEAST Fulbright – 1/2 Tuition & Fees."

**Jagannathan, Suresh**; computer science, from Galois, Inc, \$76,848, "SPARTA – the Secure Parser Toolkit for Assurance; Amendment #4, Grant 13000753."

**Jagannathan, Suresh** and **Grama, Ananth Y**; computer science, from National Science Foundation, \$750,000, "FMitF: Track I: Vayu: Verifying Infrastructure for Safe and Performant Tunable Consistency."

**Jewell, Joseph S** and **Chynoweth, Brandon C**; aeronautics & astronautics, from Sandia National Laboratories, \$42,735, "Measurements in a Forward Facing Cavity Under Quiet and Noisy Flow."

**Johnson, David R**; industrial engineering, from Water Institute of the Gulf, \$59,977, "Environmental Science Consulting Services: Risk Assessment Phase 2."

**Johnson, Mary E** and **Thom, James Mark**; aviation and transportation technology, from Baere Aerospace Consulting Inc, \$11,000, "ASTM D7826 Phase 1 Short List Material Compatibility Testing."

**Johnson, Mary E** and **Thom, James Mark**; aviation and transportation technology, from Baere Aerospace Consulting Inc, \$22,738, "Baere Aerospace L O-Ring Test."

**Johnson, William G**; botany & plant pathology, from Valent U.S.A. Corporation, \$18,500, "Weed Science Research Voluntary Support."

**Johnson, William G**; botany & plant pathology, from Gary Marksberry, \$4,000, "Weed Science Research Voluntary Support."

**Johnson, William G** and **Young, Bryan G**; botany & plant pathology, from Monsanto Company, \$5,500, "Evaluate Performance of MON 301286 with and without the Adjuvants on Weed Control and Crop Safety SO 74."

**Johnson, William G**; botany & plant pathology, from Sumitomo Corporation of America, \$3,000, "Weed Science Research Voluntary Support."

**Johnson, William G** and **Young, Bryan G**; botany & plant pathology, from Monsanto Company, \$11,340, "Competitive Soybean System Comparison-Monsanto SO 73."

**Johnson, William G**; botany & plant pathology, from Croda Inc, \$4,000, "Weed Science Research Voluntary Support."

**Jones, Timothy Matthew** and **Jung, Andreas**; physics & astronomy, from Cornell University, \$1,270,642, "U.S. CMS Upgrades for the High-Luminosity Large Hadron Collider."

**Jun, Martin Byung-Guk**; mechanical engineering, from SMEC Co, Ltd, \$44,026, "Development of Hybrid Manufacturing System for High Melting Point Alloys."

**Jung, Andreas**; physics & astronomy, from Fermi National Accelerator Laboratory, \$56,000, "High Luminosity (HL) LHC CMS Detector Upgrade Project Outer Tracker."

**Jung, Changhee**; computer science, from Stony Brook University, \$162,750, "CSR: Small: Repurposing Spatial Memory Safety Support in Commodity Processors for Temporal Memory Safety, Other Program Analyses, Hardware-Accelerated Data Structures, and More."

**Kaplan, Ian**; entomology, from National Institute of Food & Agriculture, \$165,000, "Integrating Bees into Modern IPM: Revising Pest Management Approaches in a Pollinator-Dependent Crop."

**Karcher, Darrin M**; animal sciences, from Purdue Doctoral Program, \$30,895, "Brittney J. Emmert."

**Karcher, Darrin M** and **Jarrett, Rachel A**; animal sciences, from University of Minnesota, \$10,409, "Sulfur Use for Northern Fowl Mite Control in Poultry Systems."

**Kelleher, Bridgette L**; psychological sciences, from PHS-NIH National Institute of Mental Health, \$182,805, "Teleheal Assessment of Syndromic Autism Risk in Infants (Grant 11000611, Amendment #3)."

**Key, Nicole L**; mechanical engineering, from Honeywell Inc., \$365,000, "Inlet Distortion Effects on Compressor Performance in APU Engines; Amendment 1, Grant 40002724."

**Kildishev, Alexander V**; electrical & computer engineering, from Pennsylvania State University, \$302,500, "ACTEOM – Advanced Computational Toolkit for Engineered Optical Materials; Amendment 7, Grant 13000557."

**Kim, Beomjin**; FW Computer Science, from University of Notre Dame, \$19,953, "IndianaComputes."

**Knobloch, Neil A** and **Esters, Levon T**; Agricultural Sciences Education and Communication, from Langston University, \$68,759, "Building Future Faculty and Leaders through Culturally Responsive Learner-Centered Teaching Partnerships."



## Kreisle to Makin

**Kreisle, Regina A;** medical education, from Indiana University, \$5,000, "FY 21 IUSM – Lafayette Life Cycle Fund."

**Kreisle, Regina A;** medical education, from Indiana University, \$2,518,560, "FY 20-21 IUSM – Lafayette General Fund."

**Kreisle, Regina A;** medical education, from Indiana University, \$16,348, "FY 21 IUSM Lafayette Student Tech Fund."

**Kreisle, Regina A;** medical education, from Indiana University, \$16,348, "FY 21 IUSM – Lafayette Student Activity Fund."

**Kuhn, Richard J;** biological sciences, from Washington University, \$335,460, "Antibody-Based Protection Against Dengue Virus (Grant 11000721, Modification 3)."

**Lee, Chi Hwan;** mechanical engineering, from Air Force Office of Scientific Research, \$150,000, "Bio-Integrated Sensor Patch Comprising Semiconducting Silicon Nanoneedles for Intratissue and Intracellular Recording (Grant 13000672, Modification 2)."

**Lee, Kyoungsoo;** physics & astronomy, from National Aeronautics and Space Administration, \$228,934, "The Rise and Fall of Dusty Star Formation in Clusters and Protoclusters Measured by Herschel and WISE; Supplement 2; Grant 12000289."

**Lee, Linda S;** agronomy, from Hampton Roads Sanitation District, \$50,000, "PFAS and Other CECs in Class A (via THP) and Class B Biosolids."

**Lee, Sunghwan;** engineering technology, from National Science Foundation, \$16,000, "P-Type Oxides for CMOS Devices: Thermodynamics-Based In-Situ Synthesis and In-Situ Integration (Grant 10001491, Amendment #2)."

**Lempert, Laszlo;** mathematics, from National Science Foundation, \$90,675, "Complex Analysis and Geometry (Grant 10001312, Amendment #2)."

**Li, Ninghui and Liang, Faming;** computer science, statistics, from National Science Foundation, \$133,100, "Collaborative Research: RAPID: PPSRC: Privacy-Preserving Self-Reporting for COVID-19."

**Liang, Faming;** statistics, from National Science Foundation, \$250,000, "Scalable Algorithms for Bayesian on-Line Learning with Large-Scale Dynamic Data."

**Liceaga, Andrea M;** food science, from Craftmark Bakery Inc, \$1,500, "Multi Sponsored Gift- Sensory."

**Liceaga, Andrea M;** food science, from Heartland Food Products Group, \$4,500, "Multi Sponsored Gift- Sensory."

**Liceaga, Andrea M;** food science, from Weaver Popcorn Company, \$4,000, "Multi Sponsored Gift- Sensory."

**Liceaga, Andrea M;** food science, from Multi-Sponsored Industrials, \$10, "Sensory Evaluation Research."

**Liceaga, Andrea M;** food science, from Craftmark Bakery Inc, \$1,500, "Multi Sponsored Gift- Sensory."

**Lie, Victor D;** mathematics, from Simons Foundation, \$95,135, "Some Topics in Harmonic Analysis and Relations to Partial Differential Equations."

**Lindemann, Stephen R;** food science, from PHS-NIH National Institute of General Medical Science, \$375,921, "Carbohydrate Structure Controls on Human Gut Microbial Ecology (Grant 11000904, Amendment #1)."

**Lindemann, Stephen R;** food science, from CP Kelco US Inc, \$9,611, "Testing Agreement with CP Kelco."

**Linnes, Jacqueline C;** biomedical engineering, from National Institute on Drug Abuse, \$2,325,000, "Point-of-Use Acute HIV Infection Diagnostic for Substance Using Populations."

**Liu, Sa; Lee, Linda S and Boor, Brandon E;** health sciences, agronomy, civil engineering, from Showalter Trust, \$75,000, "Tetrachloroethylene (PCE) Contamination and Neurobehavioral Health Among Children in Martinsville, IN."

**Low, Philip S;** chemistry, from Trask Trust Fund, \$50,000, "Trask: Development of Targeted Therapies for Idiopathic Pulmonary Fibrosis."

**Low, Philip S;** chemistry, from University of Pennsylvania, \$43,497, "Near Infrared Intraoperative Molecular Imaging of Lung Adenocarcinoma Grant 11000498 Amed #5)."

**Low, Philip S;** chemistry, from Morphimmune, Inc, \$180, "Multi Sponsor – Voluntary Support."

**Lu, Na and Lin, Guang;** civil engineering, mathematics, from National Science Foundation, \$16,000, "REU: CAREER: Investigating Process-Structure-Property Correlations of Nitrides and Oxides for High Temperature Thermoelectric Applications."

**Lu, Na and Lin, Guang;** civil engineering, mathematics, from National Science Foundation, \$69,353, "NSF Career Supplement: Data Driven Discovery of Thermoelectric Nitrides and Oxides."

**Lucht, Robert P and Slabaugh, Carson D;** aeronautics & astronautics, from Federal Aviation Administration, \$250,000, "Ascent Project 67:- Impact of Fuel Heating on Combustion Performance and Emissions for a Lean Dome Combustor."

**Lyle, Ladawn T;** comparative pathobiology, from Elanco Animal Health, \$24,187, "Elanco Pathology Testing."

**Ma, Linquan;** mathematics, from Sloan, Alfred P. Foundation, \$75,000, "Ma 2020 Alfred P. Sloan Research Fellow Award."

**Ma, Zhao;** forestry & natural resources, from U.S. Forest Service, \$79,491, "Oak Ecosystem Restoration on Private Lands Across the Chicago Wilderness and the Driftless Area."

**MacDermid Wadsworth, Shelley; Topp, Dave and Christ, Sharon L;** human development and family studies, Military Family Research Institute Conference, from PHS-NIH National Institute of Child Health and Human Development, \$597,463, "Effects During Adolescence of Early Childhood Exposure to Parental Wartime Deployment (Grant 11000764, Amendment #1)."

**Maestas, Cherie Drake;** political science, from Purdue Research Foundation (PRF) Summer Research Grants, \$15,951, "2021 POL SC Srg."

**Maestas, Cherie Drake;** political science, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 IES&E Srg."

**Maestas, Cherie Drake;** political science, from George Washington Carver Fellowship, \$26,386, "Jackson, Jasmine C."

**Main, Russell P;** basic medicine science, from National Science Foundation, \$15,848, "REU Supplement, Mechanobiological Regulation of Cortical Bone in Vertebrates."

**Makin, Maria Cristina;** biomedical engineering, from Showalter Trust, \$75,000, "Using Deep Artificial Neural Networks to Develop Artificial Sensation for Neural Prostheses."

## Manfra to Meyer

**Manfra, Michael James;** physics & astronomy, from Rochester Institute of Technology, \$130,000, "Non-Equilibrium Quantum Computing with Spins in Semiconductors; Amendment 1, Grant 13000702." (a Discovery Park award – Birck Nanotechnology Center)

**Manfra, Michael James;** electrical & computer engineering, from Microsoft Corporation, \$928,618, "Microsoft Quantum Computing – Year 4; Amendment 7 (Grant 40001700)." (a Discovery Park award – Birck Nanotechnology Center)

**Mason, Linda J;** graduate school administration, from Purdue Doctoral Program, \$34,524, "2020-21 Purdue Doctoral Fellowships/Assistantships – Graduate School – Reed, Bryonna Ayren."

**Mason, Linda J;** graduate school administration, from Purdue University F N Andrews Fellowship, \$92,218, "2020-21 Andrews Fellowships/Assistantships – Graduate School (71000070)."

**Mason, Linda J;** graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$62,990, "2020-21 Lynn Interdisciplinary Graduate Fellowship/Assistantship – Graduate School."

**Mason, Linda J;** graduate school administration, from National Science Foundation, \$3,201,799, "NSF Graduate Research Fellowship Program (GRFP) – Program Year 2020-2021 (Grant 10001669)."

**Mason, Linda J;** graduate school administration, from Purdue University F N Andrews Fellowship, \$32,485, "2020-21 Andrews Fellowships/Assistantships – Graduate School (71000070)."

**Mason, Linda J;** graduate school administration, from George Washington Carver Fellowship, \$36,094, "2020-21 Carver Fellowships/Assistantships – Graduate School – Stamper, Incr Trevor."

**Mason, Linda J;** graduate school administration, from Purdue Doctoral Program, \$30,428, "2020-21 Purdue Doctoral Fellowships/Assistantships – Graduate School – Yeomans, Christopher."

**Mason, Linda J;** graduate school administration, from Purdue Doctoral Program, \$30,428, "2020-21 Purdue Doctoral Fellowships/Assistantships – Graduate School – Iyer, Ananth."

**Mason, Linda J;** graduate school administration, from Purdue University F N Andrews Fellowship, \$37,963, "2020-21 Andrews Fellowships/Assistantships – Graduate School (71000070)."

**Mason, Linda J;** graduate school administration, from Ross Graduate Fellowship-Assistantship, \$32,281, "2020-21 Ross Fellowships/Assistantships – Graduate School."

**Mason, Linda J;** graduate school administration, from Ross Graduate Fellowship-Assistantship, \$125,488, "2020-21 Ross Fellowships/Assistantships – Graduate School."

**Mason, Linda J;** graduate school administration, from Ross Graduate Fellowship-Assistantship, \$34,429, "2020-21 Ross Fellowships/Assistantships – Graduate School."

**Mason, Linda J;** graduate school administration, from Ross Graduate Fellowship-Assistantship, \$8,763, "2020-21 Ross Fellowships/Assistantships – Graduate School."

**Mason, Linda J;** graduate school administration, from Ross Graduate Fellowship-Assistantship, \$31,904, "2020-21 Ross Fellowships/Assistantships – Graduate School."

**Mason, Linda J;** graduate school administration, from Purdue University F N Andrews Fellowship, \$35,053, "2020-21 Andrews Fellowships/Assistantships – Graduate School."

**Mason, Linda J;** graduate school administration, from Purdue Doctoral Program, \$34,524, "2020-21 Purdue Doctoral Fellowships/Assistantships – Graduate School – Fisher, Judy Lynne."

**Mason, Linda J;** graduate school administration, from Purdue Doctoral Program, \$36,039, "2020-21 Purdue Doctoral Fellowships/Assistantships – Graduate School – Dennis, Araba Fobin."

**Matosevic, Sandro;** industrial & physical pharmacy, from Steve and Linda Chambers Living Trust, \$10,000, "Multi Sponsor Voluntary Support."

**Matosevic, Sandro;** industrial & physical pharmacy, from Steve and Linda Chambers Living Trust, \$8,000, "Multi Sponsor Voluntary Support."

**Mattoo, Seema;** biological sciences, from University of California – Davis, \$46,500, "Innate Immune Sensing of ER Stress During Bacterial Infection."

**Mattson, Marifran;** communications, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 COMM SRG."

**Mauer, Lisa J; Aime, Mary Catherine; Allebach, Jan P; Applegate, Bruce M; Bae, Euiwon; Bhunia, Arun K; Chiu, George T; Deering, Amanda J; Mousoulis, Charilaos; Oliver, Haley F; Peroulis, Dimitrios; Pruitt, Robert E; Rajwa, Bartlomiej P; Robinson, Joseph Paul and Stanciu-Gregory, Lia A;** food science, botany & plant pathology, electrical & computer engineering, mechanical engineering, biological sciences, basic medicine science, materials engineering, from Agricultural Research Service, \$1,457,128, "Advanced Development of Innovative Technologies and Systematic Approaches."

**Mayer, Theresa Stellwag; Delp, Edward J; Irazoqui, Pedro; Kinzer-Ursem, Tamara L; Yeo, Yoon; Alam, Muhammad A; Dai, Mingji; Eicher-Miller, Heather A; Lee, Chi Hwan; Lee, Hyowon; Linnes, Jacqueline C; Park, Kinam; Rahimi, Rahim; Rochet, Jean-Christophe; Sen, Shreyas; Shashurin, Alexey; Solorio, Luis; Verma, Mohit S and Zhu, Fengqing;** Birck Nanotechnology Center, electrical & computer engineering, biomedical engineering, industrial & physical pharmacy, chemistry, nutrition science, materials engineering, medicinal chemistry & molecular pharmacology, aeronautics & astronautics, agricultural & biological engineering, from Eli Lilly and Company, \$5,810,040, "ELI Lilly Connected Solutions 2020."

**Maynard, Elizabeth T;** horticulture and landscape architecture, from Seminis Vegetable Seeds, Inc., \$770, "Mid-Am Food Proc."

**McLucky, Scott A;** chemistry, from PHS-NIH National Institute of General Medical Science, \$332,706, "Mass Spectrometry Method with C=C Location Specificity for Qualitative and Quantitative Lipid Analysis (Grant 11000517, Amendment #5)."

**Mesecar, Andrew D;** biochemistry, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 BIOCHEM SRG."

**Meyer, Scott E;** mechanical engineering, from Inspace, LLC, \$30,000, "IN Space RCS Thruster Testing Budget Summer 2020."

**Meyer, Scott E;** mechanical engineering, from Ursa Major Technologies Inc, \$130,000, "Preburner Testing for Ursa Major."



## Michalski to Olson

**Michalski, Greg M;** earth, atmospheric & planetary sciences, from National Science Foundation, \$125,563, "Evaluating Mean Annual Precipitation in the Southwestern US During the Pliocene-Pleistocene Transition Using Nitrate D17o Anomalie (Grant 10001581)."

**Milisavljevic, Danny;** physics & astronomy, from National Science Foundation, \$66,833, "RAPID: Virtual Reality Cyberinfrastructure Enabling Data Visualization, Exploration, and Collaboration Among Distant Individuals."

**Milisavljevic, Danny;** physics & astronomy, from Space Telescope Science Institute, \$18,187, "The Center of Expansion and Age of Supernova Remnant N132D (Grant 12000327)."

**Miller, Jeremy K;** mathematics, from Simons Foundation, \$42,000, "Stability and the Cohomology of Arithmetic Groups."

**Mintert, James R; Langemeier, Michael R; DeLay, Nathan D and Thompson, Nathanael M;** agricultural economics, from Chicago Mercantile Exchange, \$768,387, "Purdue/CME Group Farm Economy Barometer Project."

**Mishra, Dharmendra K and Ambrose, Rose Prabin Kingsly;** food science, agricultural & biological engineering, from Mead Johnson Nutritionals, \$9,500, "DEM Simulation to Predict Dry Blending Uniformity."

**Mockus, Linas; Ezra, Kristopher L; DeLaurentis, Daniel A; Lee, Seokcheon and Nof, Shimon Y;** chemical engineering, aeronautics & astronautics, industrial engineering, from Science Applications International, \$19,500, "SAIC SC52 TI-403 NEMS MBSE" (a Discovery Park award – Institute for Global Security and Defense Innovation)

**Mohler, James L;** Office of Provost Administration, from Lynn Interdisciplinary Graduate Fellowship, \$37,963, "Burow, Katelin Marie."

**Mohler, James L;** Office of Provost Administration, from Interdisciplinary Fellowships, \$37,963, "Ananthaswamy, Kavya."

**Mohler, James L;** Office of Provost Administration, from Lynn Interdisciplinary Graduate Fellowship, \$37,963, "De Cordoba, Nicolas."

**Mohler, James L;** Office of Provost Administration, from Lynn Interdisciplinary Graduate Fellowship, \$37,963, "Farmer, Brittany Nicole."

**Mohler, James L;** Office of Provost Administration, from Lynn Interdisciplinary Graduate Fellowship, \$37,963, "Qi, Wenzhu."

**Mohler, James L;** Office of Provost Administration, from Lynn Interdisciplinary Graduate Fellowship, \$37,963, "Yoo, Yejong."

**Mohler, James L;** Office of Provost Administration, from Lynn Interdisciplinary Graduate Fellowship, \$37,963, "Yu, Ruilin."

**Mohler, James L;** Office of Provost Administration, from Interdisciplinary Fellowships, \$37,963, "Bhandari, Menuka."

**Mohler, James L;** Office of Provost Administration, from Interdisciplinary Fellowships, \$37,963, "Huseman, Kristen L."

**Mohler, James L;** Office of Provost Administration, from Interdisciplinary Fellowships, \$37,963, "Iyer, Shreyas Ganesan."

**Mohler, James L;** Office of Provost Administration, from Interdisciplinary Fellowships, \$37,963, "Qu, Feng."

**Mohler, James L;** Office of Provost Administration, from Interdisciplinary Fellowships, \$37,963, "Sultana, Rokaia."

**Mohler, James L;** Office of Provost Administration, from Interdisciplinary Fellowships, \$37,963, "Shrestha, Rojina."

**Mohler, James L;** Office of Provost Administration, from Interdisciplinary Fellowships, \$37,963, "Naik, Priyanka."

**Mohler, James L;** Office of Provost Administration, from Interdisciplinary Fellowships, \$37,963, "Lamprey, Derick Isaac."

**Mohler, James L;** Office of Provost Administration, from Interdisciplinary Fellowships, \$37,963, "Dong, Ziyu."

**Morgan, John A;** chemical engineering, from Sandia National Laboratories, \$59,800, "13C-Metabolic Flux Analysis of CRISPR Engineered Cyanobacteria."

**Mosier, Nathan S;** agricultural & biological engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 ABE SRG."

**Mudawar, Issam;** mechanical engineering, from National Aeronautics and Space Administration, \$20,000, "Flow Boiling and Condensation Experiment (FBCE); Amendment 13; Grant 12000151."

**Munson, Eric J;** industrial & physical pharmacy, from Celgene Corporation, \$50,000, "Center for Pharmaceutical Development (CPD) Consortium, Celgene Corp \$50k 40002911."

**Nagele, Monica E and Morgan, Abby M;** field extension, from Montgomery County Community Foundation, \$1,500, "CHEF University."

**Narimanov, Evgeniy;** electrical & computer engineering, from University of California – Berkeley, \$75,000, "A High-Speed Superlens Nanoscope for Imaging at 10 nm and Beyond (Grant 40001866, Amendment #5)."

**Nauman, Eric A;** mechanical engineering, from Corvid Technologies, \$12,500, "Advanced Models of Head Trauma."

**Neumeister, Norbert;** physics & astronomy, from Fermi National Accelerator Laboratory, \$21,606, "2019 Distinguished Researcher Award Fermi Lab."

**Newton, Kathryn A;** engineering technology, from Purdue Research Foundation (PRF) Summer Research Grants, \$21,268, "F9002648302016."

**Niyaz, Quamar; Yang, Xiaoli and Paheding, Sidike;** electrical & computer engineering, from National Science Foundation, \$159,417, "Collaborative Research: IUSE: EHR: CyberMUG: Cybersecurity Modules Aligned with UG Computer Science and Engineering Curriculum."

**Odonnell, Michael J;** field extension, from Organic Trade Association, \$550, "Multi Sponsor."

**Oliver, Haley F and Nkemngong, Carine A;** food science, from National Institute of Food & Agriculture, \$120,000, "Foodservice in Healthcare Facilities as Potential Reservoirs for Staphylococcus Aureus and Pseudomonas Aeruginosa."

**Oliver, Haley F and Britton, Brianna;** food science, from National Institute of Food & Agriculture, \$120,000, "Investigating Relationships Among Microbial Communities and Listeria Monocytogenes in Retail Delis."

**Olson, Matthew;** biological sciences, from Showalter Trust, \$75,000, "STAT3-Dependent Cytokines and Transcription Factors in the Differentiation of Pathogenic CD4+ T Helper Cells in Graftversus-Host Disease."

## Ostafe to Prokopy

**Ostafe, Raluca**; biological sciences, from Elanco Animal Health, \$150,000, "Directed Evolution of Lysostaphin."

**Ostaneck, Kristine** and **Mishra, Aura Ankita**; human development and family studies, from National Institute on Drug Abuse, \$8,277, "The Role of Substance Use Trajectory on the Association Between Childhood Maltreatment and Intimate Partner Violence: a Geneenvironment Study (Grant 11000892, Amendment 1)."

**Park, Kinam** and **Otte, Andrew D**; biomedical engineering, from Showalter Trust, \$60,000, "The Solvent-Water Mixing During the First Few Seconds of Contact."

**Parkinson, Elizabeth I**; chemistry, from PHS-NIH National Institute of General Medical Science, \$370,472, "Mining Cryptic Biosynthetic Gene Clusters for Novel Bioactive Compounds."

**Paschou, Peristera** and **Drineas, Petros S**; science administration, computer science, from National Science Foundation, \$316,054, "III:Small:Randomized Matrix-Sketching Approaches for the Analysis of Massive Human Genomics Data."

**Patton, Aaron J** and **Jiang, Yiwei**; horticulture and landscape architecture, agronomy, from Midwest Regional Turf Foundation, \$12,973, "Midwest Regional Turf Foundation."

**Patton, Aaron J**; horticulture and landscape architecture, from National Turfgrass Evaluation Program, \$7,500, "2019 NTEP National Zoysiagrass Test (ZG-19-19) – Billbug Tolerance."

**Patton, Aaron J**; horticulture and landscape architecture, from Texas A&M Agrilife Research, \$193,368, "Research and Extension to Address Herbicide Resistance Epidemic in Annual Bluegrass in Managed Turf Systems."

**Patton, Aaron J**; horticulture and landscape architecture, from Midwest Regional Turf Foundation, \$15,500, "Turfgrass Research."

**Patton, Aaron J**; horticulture and landscape architecture, from Midwest Regional Turf Foundation, \$5,250, "MRTF Extension & Research."

**Patton, Aaron J**; horticulture and landscape architecture, from National Turfgrass Evaluation Program, \$7,500, "2019 NTEP National Zoysiagrass Test (ZG-19-06)."

**Patton, Aaron J**; horticulture and landscape architecture, from National Turfgrass Evaluation Program, \$7,500, "2019 NTEP Warm-Season Putting Green Test (PG-19-09)."

**Patton, Venetria K**; interdisciplinary programs, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 CL SRG."

**Patton, Venetria K**; interdisciplinary programs, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 LING SRG."

**Patton, Venetria K**; interdisciplinary programs, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 AS SRG."

**Pekarek, Steven D**; electrical & computer engineering, from Continuous Solutions, \$30,000, "Power-Dense Electrical Rotating Machines for Propulsion and Power Generation, AM 1; Grant 13000820."

**Peroulis, Dimitrios**; electrical & computer engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$31,902, "2021 ECE SRG."

**Piercey, Davin G**; materials engineering, from Office of Naval Research, \$177,145, "Enabling Methods in Next-Generation Energetic Materials Synthesis (Grant 13000724, Modification1)."

**Pipes, R Byron** and **Barocio Vaca, Eduardo**; aeronautics & astronautics, Composites Manufacturing and Simulation Center, from Lockheed Martin Corp., \$125,000, "Extrusion Deposition Additive Manufacturing Process Simulation."

**Pipes, R Byron**; materials engineering, from The Boeing Company, \$450,000, "Boeing High Rate Composite Model Based Systems Engineering."

**Pipes, R Byron; Kravchenko, Sergii** and **Sommer, Drew E**; materials engineering, Composites Manufacturing and Simulation Center, from National Science Foundation, \$495,005, "Development of a Virtual Lab Environment for Stochastic Prepreg Platelet Molded Composites."

**Pires Dos Santos, Andrea** and **Kasinski, Andrea L**; comparative pathobiology, biological sciences, from Showalter Trust, \$75,000, "Architecture, Function, and Gene Regulation of Human Granulomas of Autopsied Patients Co-Infected with Tuberculosis and HIV-1."

**Poggie, Jonathan; Blaisdell, Gregory A; DeLaurentis, Daniel A; Jewell, Joseph S; Paniagua Perez, Guillermo; Slabaugh, Carson D; Bane, Sally P M; Chynoweth, Brandon C; Heister, Stephen D; Meyer, Terrence R; Pourpoint, Timothee L; Schneider, Steven P; Tomar, Vikas and Trice, Rodney W**; aeronautics & astronautics, mechanical engineering, materials engineering, from Air Force Research Laboratory, \$5,810,347, "Multidisciplinary Hypersonics Program."

**Pomeranz, Irith**; electrical & computer engineering, from Mentor Graphics Corporation, \$58,000, "Joint Research on Test Data Compression."

**Pourpoint, Timothee L**; aeronautics & astronautics, from Frontier Aerospace Corporation, \$309,000, "Properties Investigation of High-Mon Oxidizers for Use in Deep Space Exploration."

**Pourpoint, Timothee L**; aeronautics & astronautics, from National Aeronautics and Space Administration, \$80,000, "Preignition Behavior and Combustion Stability of Storable Propellants for Deep Space Missions."

**Pourpoint, Timothee L**; aeronautics & astronautics, from National Aeronautics and Space Administration, \$80,000, "Bi-Monopropellants: a Path to Deep Throttling Rocket Engines."

**Powell, Manushag**; English, from Purdue University F N Andrews Fellowship, \$31,494, "Hintiryan, Siroun Anoush."

**Prabhakar, Sunil K**; computer science, from Purdue Research Foundation (PRF) Summer Research Grants, \$37,219, "2021 COMSCI SRG."

**Prokopy, Linda S**; forestry & natural resources, from Brookside Laboratories, Inc, \$79,457, "CIG Grant on Nutrient Stabilizers."

**Prokopy, Linda S**; forestry & natural resources, from Nature Conservancy, the, \$35,177, "Understanding Social Capacity for Cover Crop Adoption: County-Level Surveys."

**Prokopy, Linda S**; forestry & natural resources, from Nature Conservancy, the, \$25,000, "Understanding of Persistence of Cover Crop Use: Lower Wabash."

## Purpura to Schoenlein

**Purpura, David J** and **Schmitt, Sara A**; human development and family studies, from Institute of Education Sciences, \$289,837, "Reading and Playing with Math: Promoting Preschoolers Math Language through Picture Books and Play Activities."

**Pyrak-Nolte, Laura J**; physics & astronomy, from U.S. Department of Energy, \$129,414, "The Physics of Swarms in Fracture Networks: Integration of Seismic Characterization and Controlled Micro-Transport (Grant 14000200)."

**Qiao, Li**; aeronautics & astronautics, from Cummins, Inc., \$25,314, "Feasibility Study of Spark Plug Rig."

**Radcliffe, John Scott**; animal sciences, from Agricultural Research Service, \$9,824, "Evaluating the Effects of Climate Change on Livestock Physiology and Well-Being."

**Rahimi, Rahim**; materials engineering, from Ford Motor Company, \$200,000, "Additive Manufacturing of High-Performance Terminal Connections for Flexible Printed Circuits." (a Discovery Park award - Birck Nanotechnology Center)

**Rainey, Katherine Martin; Brito, Luiz Fernando; Cherkauer, Keith A** and **Xavier, Alencar**; agronomy, animal sciences, agricultural & biological engineering, from National Institute of Food & Agriculture, \$500,000, "Application of UAS Biomass Longitudinal Phenotypes to Selection in Soybean Breeding Trials."

**Raman, Arvind; Sinfield, Joseph V** and **Yih, Yuehwern**; engineering administration, civil engineering, industrial engineering, from Agency for International Development, \$1,519,280, "Laser Partners for University-LED Solutions Engine (PULSE)."

**Ramanathan, Shriram**; materials engineering, from National Science Foundation, \$71,802, "Collaborative Research: Nanoscale Quantitative Probing of Phase Transition in Correlated Rare-Earth Nickelates (Grant 10001568, Amendment #1)."

**Ramani, Karthik**; mechanical engineering, from PTC Inc., \$50,000, "Voluntary Support."

**Ramkrishna, Doraiswami**; chemical engineering, from AbbVie Inc, \$40,000, "Modeling of Crystal Morphology and Polymorphs."

**Ratliff, Timothy L**; comparative pathobiology, from University of Kentucky, \$28,556, "U of Kentucky Support for X. Liu Students of Cancer Center."

**Ratliff, Timothy L**; comparative pathobiology, from Walther Cancer Institute Foundation Inc, \$100,000, "Center Director Developmental Funds Award."

**Ratliff, Timothy L**; comparative pathobiology, from Indiana Elks Charities Inc., \$130,000, "Indiana Elks Charities Inc.(2)."

**Rawls, Rachel S**; field extension, from St. Joseph County 4-H Fair, Inc, \$5,000, "St. Joseph County 4-H Program Fair Assistant."

**Renzulli, Linda A**; sociology, from Lynn Interdisciplinary Graduate Fellowship, \$28,315, "Jiang, Yufu."

**Renzulli, Linda A**; sociology, from Purdue Doctoral Program, \$31,085, "Montgomery, Alexandria."

**Renzulli, Linda A**; sociology, from Purdue University F N Andrews Fellowship, \$33,364, "Pite, Renee."

**Richmond, Douglas Scott**; entomology, from BASF Corporation, \$4,500, "BASF Black Cutworm DEV-I-2020-US-VB4-A."

**Rickert, Thomas J**; English, from Ross Graduate Fellowship-Assistantship, \$35,029, "Hoffman, Allyson."

**Rickus, Jenna L**; Career Success, from Arizona State University, \$10,000, "UIA: BGEE Pilot Testing."

**Riley, Donna M**; engineering education, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 EE SRG."

**Rispoli, Mandy J**; educational studies, from University of Oregon, \$238,421, "Project LEAD: Leaders in Evidence Based Practices, Autism Spectrum Disorder, and Diversity."

**Robicheaux, Francis J**; physics & astronomy, from National Science Foundation, \$81,665, "Many Facets of Laser-Atom and Dipole-Dipole Interactions (Grant 10001357)."

**Rollock, David**; psychological sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 MCC SRG."

**Rollock, David**; psychological sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 NB SRG."

**Rollock, David**; psychological sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 CPS SRG."

**Rollock, David**; psychological sciences, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,634, "2021 PS SRG."

**Roy, Kaushik**; electrical & computer engineering, from Sandia National Laboratories, \$95,000, "Neural-Inspired Approaches & Implementations for Automatic Target Recognition."

**Samuel, Douglas B**; psychological sciences, from Kinley Trust, \$20,000, "Ascertaining the Psychological Risk Factors for Suicide Among Indiana Farmers."

**Sangid, Michael D**; aeronautics & astronautics, from Technical Data Analysis, Inc, \$69,222, "High Resolution in Situ Tomography Investigation of the Damage Tolerant Behavior of Fiber Reinforced Composites; Amendment 1, Grant 13000830."

**Sartore, William G** and **Ebarb, Joel R**; Liberal Arts Undergraduate & International Student Programs, College of Liberal Arts Administration, from Partners of the Americas Foundation, \$24,160, "Intercultural Communication through Devised Theatre."

**Savran, Cagri A**; mechanical engineering, from Savran Technologies Inc, \$11,000, "Voluntary Support."

**Scalo, Carlo**; mechanical engineering, from Office of Naval Research, \$531,250, "Reynolds-Averaged Modeling and Real-Gas Effects in Hypersonic Turbulent Boundary Layers."

**Scalo, Carlo**; mechanical engineering, from Ross Graduate Fellowship-Assistantship, \$31,904, "Lucarelli, Nicola M."

**Schneider, Steven P**; aeronautics & astronautics, from Air Force Office of Scientific Research, \$450,918, "Experimental Studies of Instability and Transition in a Mach-6 Quiet Tunnel (Grant 13000551 - Modification 3)."

**Schoenlein, William E**; biomedical engineering, from Cook Research Incorporated, \$44,905, "Pre-Clinical Evaluation Testing Agreement: Studies: CMH-XNCE, POC, and Sentinels."



## Scott-Moncrieff to Stantz

**Scott-Moncrieff, Joanna C R**; veterinary clinical sciences, from Fitness Studio Avi Zipori, \$23,125, "Multi Sponsor – Voluntary Suupport."

**Scott-Moncrieff, Joanna C R**; veterinary clinical sciences, from MedVet Associates LLC, \$22,048, "Multi Sponsor."

**Scott-Moncrieff, Joanna C R**; veterinary clinical sciences, from Antech Diagnostics, \$23,040, "DXI Residency Support."

**Scott-Moncrieff, Joanna C R**; veterinary clinical sciences, from Animal Eye Specialists, Inc, \$23,125, "Ophthalmology Residency Program."

**Scott-Moncrieff, Joanna C R**; veterinary clinical sciences, from Surgical Referral Services Ltd, \$22,384, "Onco Residency Training Program."

**Scott-Moncrieff, Joanna C R**; veterinary clinical sciences, from MSPCA-Angell, \$22,975, "LAS Moroccan Residency."

**Scott-Moncrieff, Joanna C R** and **Christian, John A**; veterinary clinical sciences, comparative pathobiology, from Zomedica Pharmaceuticals Inc, \$54,221, "Truforma Validation Study."

**Semperlotti, Fabio**; mechanical engineering, from Office of Naval Research, \$201,968, "Shape-Memory-Alloy Meta-Composites: Harnessing Material and Topological Phase Transitions to Achieve Resilient and Tunable Lightweight Structures."

**Shah, Kavita**; chemistry, from PHS-NIH National Cancer Institute, \$357,895, "Targeting Drug-Resistant Castration Resistant Prostate Cancer via LIMK2."

**Shannahan, Jonathan H; Boor, Brandon E** and **Whelton, Andrew J**; health sciences, civil engineering, from PHS-NIH National Institute of Environment Health Science, \$74,605, "Assessment of Cured-In-Place Pipe Installation Emissions and Toxicity (Grant 11000879, Amendment #2)."

**Sheehan, Amy Heck**; pharmacy practice, from Food and Drug Administration, \$20,000, "IPA Assignment Agreement for Regulatory Pharmaceutical Fellowship –Irene Lin, Derrong."

**Sheehan, Amy Heck**; pharmacy practice, from Food and Drug Administration, \$33,333, "IPA Assignment Agreement for Regulatory Pharmaceutical Fellowship – Karic, Anes."

**Sheehan, Amy Heck**; pharmacy practice, from Food and Drug Administration, \$20,000, "IPA Assignment Agreement for Regulatory Pharmaceutical Fellowship – Nicolas, Morgan."

**Sheehan, Amy Heck**; pharmacy practice, from Food and Drug Administration, \$33,333, "IPA Assignment Agreement for Regulatory Pharmaceutical Fellowship –Alexander, Shannon."

**Sheehan, Amy Heck**; pharmacy practice, from Food and Drug Administration, \$33,333, "IPA Assignment Agreement for Regulatory Pharmaceutical Fellowship – Comanici, Kathryn."

**Siegmund, Thomas H; Howarter, John A** and **Pyrak-Nolte, Laura J**; mechanical engineering, materials engineering, physics & astronomy, from National Science Foundation, \$1,996,957, "Leap-Hi: Engineering New Solutions to Reduce the Burden of Skeletal Fracture."

**Singh, Shweta**; agricultural & biological engineering, from National Science Foundation, \$34,596, "Process Engineering Models to Physical Input-Output Tables (PIOTs): a Novel Approach to Reproducible, Transparent and Fast Regional Piot Development via Collaborative Piothub."

**Sintim, Herman O**; chemistry, from Indiana University School of Medicine, \$112,500, "Development of Therapeutic Compounds Against Active and Persistent Borrelia Burgdorferi."

**Siskind, Jeffrey M**; electrical & computer engineering, from IBM, \$90,160, "Purdue Subcontract for the IBM Proposal to IARPA DIVA (Grant 13000609)."

**Slabaugh, Carson D; Heister, Stephen D** and **Pourpoint, Timothee L**; aeronautics & astronautics, from Office of Naval Research, \$303,720, "High Temperature Air System for High Speed Propulsion Experiments."

**Slabaugh, Carson D**; aeronautics & astronautics, from National Aeronautics and Space Administration, \$50,000, "Propulsion Design, Build, Test: Hydrocarbon Propellant Delivery System."

**Smith, Preston M; Gough, Erik S; Hacker, Thomas J; Neumeister, Norbert** and **Wisecaver, Jennifer H**; IT Research Computing, computer information technology, physics & astronomy, biochemistry, from National Science Foundation, \$392,205, "CC\* Compute: Private Campus Cloud for Data Analytics and Machine Learning."

**Snow, Lowell D; Coy, Jon P; Goosen, Robert K; Pearce, William B; Stewart, Ranae K** and **McKinnis, David R**; Technical Assistance Program/ Manufacturing Extension Partnership, Purdue Research Foundation – University Development Office, from National Institute of Standards & Technology, \$3,108,481, "Indiana Manufacturing Extension Partnership (MEP) Center."

**Snow, Lowell D**; Technical Assistance Program/ Manufacturing Extension Partnership, from National Institute of Standards & Technology, \$1,374,000, "NIST MEP Emergency Assistance Program."

**Son, Steven F**; mechanical engineering, from National Aeronautics and Space Administration, \$15,000, "High-Frequency Surface and Near-Surface Temperature Measurements of Burning Solids – Fellowship for Westphal (Grant 12000207)."

**Son, Steven F**; mechanical engineering, from National Aeronautics and Space Administration, \$78,752, "High-Frequency Surface and Near-Surface Temperature Measurements of Burning Composite Propellants – Fellowship for Westphal."

**Son, Steven F**; mechanical engineering, from National Aeronautics and Space Administration, \$15,000, "High-Frequency Surface and Near-Surface Temperature Measurements of Burning Composite Propellants – Fellowship for Westphal."

**Song, Xiaohui Carol; Smith, Preston M; Kalyanam, Rajesh; Zhu, Xiao**; IT Research Computing, from National Science Foundation, \$9,952,154, "Category I: Anvil – a National Composable Advanced Computational Resource for the Future of Science and Engineering."

**Stahelin, Robert V** and **Yeo, Yoon**; medicinal chemistry & molecular pharmacology, industrial & physical pharmacy, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$195,846, "Drug Discovery in Infectious Disease Training."

**Staiger, Christopher J**; botany & plant pathology, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 BPP SRG."

**Stantz, Keith M**; health sciences, from Indiana University, \$35,198, "Graduate Student Support for Mahsa Servati."

## Stewart to Ursam

**Stewart, Kara R;** animal sciences, from Smithfield Premium Genetics, \$5,200, "Swine Research."

**Straw, Mark L;** animal sciences, from Food and Drug Administration, \$161,312, "Implementation of 21 CFR 118: Inspection of Indiana Egg Producing Facilities."

**Strickland, Elizabeth A** and **Huber, Jessica E;** speech, language, and hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$210,821, "Communicative Disorders."

**Strother, Logan R;** political science, from Charles Koch Foundation, \$23,500, "The Group Foundations of Public Attitudes Toward Fundamental Rights in the United States."

**Su, Jianxi** and **Song, Qifan;** statistics, from Casualty Actuarial Society, \$14,000, "Multivariate Mixtures of Gamma Distributions: a Joyful Toolkit for Modeling Dependent Insurance Data."

**Subbarayan-Shastri, Ganesh;** mechanical engineering, from Semiconductor Research Corporation, \$82,000, "Predictive Methodology to Assess Reliability Life Capability of Solder Interconnects."

**Subramanian, Ramaswamy; Dhanabalan, Kanaga Vijayan** and **Noinaj, Nicholas;** biomedical engineering, biological sciences, from Elanco Inc, \$120,237, "Structural Characterization of DiSLO-1 in Complex with Functional Modulators."

**Sudhoff, Scott D;** electrical & computer engineering, from Bosch Rexroth Corporation, \$60,000, "Houston Mechatronics Voluntary Support."

**Sundaram, Neera J** and **Chiu, George T;** mechanical engineering, from Castrip LLC, \$129,495, "Determining Optimal Decision-Making Sequence for Castrip Startup Process."

**Suter, Daniel M; Leung, Yuk Fai** and **Robles, Estuardo;** biological sciences, from PHS-NIH National Institute Neurological Disorders and Stroke, \$335,649, "NADPH Oxidase Regulates Growth Cone Guidance."

**Szpankowski, Wojciech;** computer science, from National Science Foundation, \$250,000, "Collaborative Research: CIF:Small: Coded String Reconstruction Problems in Molecular Storage."

**Szpankowski, Wojciech;** computer science, from National Science Foundation, \$500,000, "CIF:Small: Towards Information Content of Dynamic Structures."

**Szymanski, Daniel B** and **Xie, Jun;** agronomy, statistics, from National Science Foundation, \$2,297,960, "Research-PGR: a System Biology Approach to Enable Cotton Fiber Engineering."

**Tan, Hong Z;** electrical & computer engineering, from National Science Foundation, \$250,000, "Collaborative Research: CHS: Medium: Increasing Communication Rates through a Tactile Phonemic Sleeve (TAPS)."

**Tan, Lin;** computer science, from JP Morgan Chase Bank, \$150,000, "2020 AI Research Faculty Research Award Program Agreement."

**Tao, Weiguo Andy;** biochemistry, from Tymora Analytical Operations, LLC, \$100,000, "Developing EV Surface Proteins as Biosignatures for Alzheimer's Disease (AD)."

**Tao, Weiguo Andy;** biochemistry, from Tymora Analytical Operations, LLC, \$110,000, "Developing High Throughput Measurement of Thiopurine in DNA by Mass Spectrometry."

**Taylor, Lynne S;** industrial & physical pharmacy, from Celgene Corporation, \$72,541, "Manipulating Amorphous Stability through Salt Formation."

**Taylor, Lynne S;** industrial & physical pharmacy, from Applied Materials, \$54,950, "Impact of Surface Engineering on ASD Stability."

**Tba, Tenure/Tenure Track (8210), 1;** Indiana State Chemist, from Food and Drug Administration, \$31,564, "FDA Contract September 2020-August 2021."

**Telenko, Darcy E P;** botany & plant pathology, from Valent U.S.A. Corporation, \$3,500, "Extension Voluntary Support."

**Telenko, Darcy E P;** botany & plant pathology, from Agricultural Research Service, \$29,700, "Efficacy of a New Fungicide for FHB and DON Management in Indiana."

**Tesmer, John;** biological sciences, from PHS-NIH National Institute of General Medical Science, \$289,234, "Purdue University Molecular Biophysics Training Program (Grant 11000881, Amendment #1)."

**Thompson, Michelle S;** earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, \$108,000, "Combining Novel Experimental Techniques with Returned Sample Analyses to Better Understand the Space Weathering of Planetary Surfaces, Supp 1; Grant 12000294."

**Thompson, Michelle S;** earth, atmospheric & planetary sciences, from National Aeronautics and Space Administration, \$105,352, "Quantifying Solar-Wind-Derived Water in Space Weathered Lunar Soils, Supp. 1; Grant 12000334."

**Tisdale, James E;** pharmacy practice, from University of Utah, \$15,519, "Dissemination and Implementation of Qt Risk Clinical Decision Support."

**Titus, Michael S;** materials engineering, from UES Inc., \$50,000, "Oxidation Modeling of Rccas."

**Tobias, Justin L;** economics, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 Econ Srg."

**Trader, Darci J;** medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$45,520, "Investigating the Interaction of a Selective Peptoid Probe and Rpn-13, a Non-Essential Ubiquitin Receptor of the Proteasome."

**Tsybaliuk, Oleksandr;** mathematics, from National Science Foundation, \$165,000, "Coulomb Branches, Shifted Quantum Groups, and Their Applications."

**Tung, Wen-Wen;** earth, atmospheric & planetary sciences, from Columbia University, \$24,323, "CAREER: Monsoon and the Upper Troposphere-Lower Stratosphere Interface (Grant 10001285, Amendment 5)."

**Ulrich, Bernd;** mathematics, from National Science Foundation, \$106,465, "Implicitization, Residual Intersections, and Differential Methods in Commutative Algebra (Grant 10001318)."

**Umulis, David M** and **Buganza Tepole, Adrian;** agricultural & biological engineering, mechanical engineering, from PHS-NIH National Institute of General Medical Science, \$344,839, "Modeling and Analysis of BMP-Mediated Dorsal/Ventral Patterning in Zebrafish Embryos (Grant 11000902)."

**Ursam, Michael D;** engineering administration, from Engineering & Industrial Services, LLC, \$1,500, "Services Agreement for Inline Cleaning Systems - Project 2, Part Fixturing Assistance."

## Vacca to Yih

**Vacca, Andrea**; agricultural & biological engineering, from Bosch Rexroth Corporation, \$90,000, "Multi Sponsored Gift."

**Verma, Mohit S; Boerman, Jacquelyn P; Johnson, Timothy; Schoonmaker, Jon; Ault, Aaron C; Croney, Candace C; Koziol, Jennifer H; Pillai, Deepti K and Song, Hwanseok**; agricultural & biological engineering, animal sciences, electrical & computer engineering, veterinary clinical sciences, comparative pathobiology, communications, from National Institute of Food & Agriculture, \$660,455, "Right Patient, Right Drug, Right Time: Precision Therapy on Farms."

**Verma, Mohit S**; agricultural & biological engineering, from Raytheon BBN Technologies, \$794,757, "COVID-19 Diagnostics."

**Verma, Mohit S; Boerman, Jacquelyn P; Johnson, Timothy; Schoonmaker, Jon; Ault, Aaron C; Croney, Candace C; Koziol, Jennifer H; Pillai, Deepti K and Song, Hwanseok**; agricultural & biological engineering, animal sciences, electrical & computer engineering, veterinary clinical sciences, comparative pathobiology, communications, from National Institute of Food & Agriculture, \$339,545, "Right Patient, Right Drug, Right Time: Precision Therapy on Farms."

**Vlachos, Pavlos**; mechanical engineering, from Trask Trust Fund, \$20,000, "Automated Analysis for Improved Heart Health."

**Wagner, Robert G**; forestry & natural resources, from National Institute of Food & Agriculture, \$37,200, "U.S. Forest and Forest Products R&D Capacity Summit."

**Wang, Chih-Chun**; electrical & computer engineering, from National Science Foundation, \$165,000, "CIF: Small: Timing Optimization Over Random Network Asynchrony – Theory and Distributed Algorithms."

**Wang, Haiyan and Zhang, Xinghang**; materials engineering, from Office of Naval Research, \$297,415, "Integrated System for in Situ Study of Ceramic Sintering Mechanism and Mechanical Properties."

**Wang, Hui-Hui; Knobloch, Neil A; Feng, Yaohua; Langenhoven, Petrus and Tormoehlen, Roger L**; agricultural sciences education and communication, food science, horticulture and landscape architecture, agricultural & biological engineering, from National Institute of Food & Agriculture, \$300,000, "Industry-Driven Integrated STEM and Systems Approach to Innovative Incubation (IN-VISION)."

**Warsinger, David E M**; mechanical engineering, from George Washington Carver Fellowship, \$36,954, "Isaac Aragones, Debraliz."

**Wasserman, Adam and Gonzalez Chavez, Victor Hugo**; chemistry, from Molecular Sciences Software Institute, \$41,886, "PDFT: on the Path to a Versatile and Robust Embedding Method."

**Webb, Kevin J**; electrical & computer engineering, from National Science Foundation, \$8,000, "Multifunctional Optomechanics with Structured Material."

**Webb, Kevin J; Rochet, Jean-Christophe and Cannon, Jason R**; electrical & computer engineering, medicinal chemistry & molecular pharmacology, health sciences, from National Science Foundation, \$3,400, "Super-Resolution in Vivo Optical Imaging as a Window to Parkinsons Disease Pathogenesis (Grant 10001638 Amendment #1)."

**Wei, Alexander and Dai, Mingji**; chemistry, from National Institutes of Health, \$192,822, "Purdue Drug Discovery Training Program."

**Weiner, Andrew M; Kais, Sabre and Qi, Minghao**; electrical & computer engineering, chemistry, from National Science Foundation, \$29,999, "RAISE:TAQS: High Dimensional Frequency Bin Entanglement -- Photonic Integration and Algorithms."

**Western, Olivia A**; field extension, from Beacon Medical Group, \$8,695, "Co-Parenting for Successful Kids – Protecting Our Youth: Hidden in Plain Sight."

**Wharry, Janelle P**; nuclear engineering, from National Science Foundation, \$111,971, "CAREER: Using Irradiation to Understand Intergranular Fracture Mechanisms of Anisotropically-Bonded Solute Segregants (Grant 10001306, Amendment #2)."

**Widhalm, Joshua R**; horticulture and landscape architecture, from Showalter Trust, \$75,000, "Synthetic Organelle Biology: Investigating the Potential of Using Heterologous Organelles to Treat Human Diseases."

**William, Jennifer M**; language & culture, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,634, "2021 LC SRG."

**Williams, Samantha M**; field extension, from Pulaski County Community Foundation, \$5,000, "Community Development Program Assistant."

**Wlodarczyk, Jaroslaw**; mathematics, from US – Israel Binational Science Foundation, \$8,823, "Topics in Resolution of Singularities."

**Wodicka, George R**; biomedical engineering, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 BME SRG."

**Wu, Wenzhuo and Sabbaghi, Arman**; industrial engineering, statistics, from National Science Foundation, \$70,000, "Supplement: Scalable Nanomanufacturing of Large-Area Two-Dimensional Tellurene for High-Performance Wearable Piezoelectric Devices."

**Xu, Dongjuan**; nursing, from American Nurses Foundation, \$4,537, "Transitions in Care for Older Nursing Home Residents with Dementia from Entry to Death: a Retrospective Cohort Study."

**Xu, Dongyan**; computer science, from Office of Naval Research, \$21,919, "Travel Grants and Local Support for 2020 TPCP Software Security Summer School." (a Discovery Park award – Center for Education and Research in Information Assurance and Security)

**Xu, Xianfan and Lin, Guang**; mechanical engineering, from National Science Foundation, \$70,000, "SNM: Continuous and Scalable 3-D Nanoprinting." (a Discovery Park award – Birck Nanotechnology Center)

**Ye, Peide**; electrical & computer engineering, from University of Notre Dame, \$225,000, "Applications and Systems Driven Center for Energy-Efficient Integrated Nanotechnologies (ASCENT; Amendment 4, Grant 40002005."

**Yeomans, Christopher L**; philosophy, from Purdue Research Foundation (PRF) Summer Research Grants, \$10,634, "2021 PHIL SRG."

**Yih, Yuehwen**; industrial engineering, from Agency for International Development, \$500,000, "Laser Buy-In: Research on the Nature and Scope of Trafficking in Persons (TIP) in South Africa."

**Yih, Yuehwen**; industrial engineering, from Agency for International Development, \$149,229, "Laser Buy-In: Multi-Country Study on Inclusive Education (MCSIE) for Learners with Disabilities in Cambodia, Malawi, and Nepal."



## Young to Zillich

**Young, Bryan G** and **Johnson, William G**; botany & plant pathology, from Monsanto Agriculture Company, \$13,860, "Service Order 72 -PPO Waterhemp 2020."

**Young, Bryan G** and **Johnson, William G**; botany & plant pathology, from Monsanto Company, \$16,000, "Bayer-Monsanto S0 75- Low Tunnel Formulations."

**Zentner, Lynn K**; electrical & computer engineering, from Pennsylvania State University, \$30,000, "Nanotechnology Applications & Career Knowledge Center (NACK)." (a Discovery Park award – Network for Computational Nanotechnology)

**Zhang, Dabao**; statistics, from PHS-NIH National Cancer Institute, \$71,624, "Measuring Explained Variation in Survival Analysis (Grant 11000878, Amendment #1)."

**Zhang, Hao**; statistics, from Purdue Research Foundation (PRF) Summer Research Grants, \$26,585, "2021 STAT SRG."

**Zhang, Xiangyu** and **Xu, Dongyan**; computer science, from Intelligent Automation Inc, \$120,000, "Athena: System Auditing by Learning Causality from Application and System Logs; Amendment 1, Grant 13000797."

**Zhang, Xinghang**; materials engineering, from U.S. Department of Energy, \$226,383, "Zhang – Deformation Mechanisms of Nanotwinned Al and Binary Al Alloys (Grant 14000269)."

**Zhang, Zhong-Yin**; medicinal chemistry & molecular pharmacology, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 MCMP SRG."

**Zheng, Wei**; health sciences, from Indiana University, \$24,617, "The Pathogenic Role of Lead (Pb) in Cerebral Amyloid Angiopathy and AD."

**Zhou, Qi**; industrial & physical pharmacy, from National Institutes of Health, \$642,515, "Advancing Innovative Therapies Against Pandrug-Resistant Gram-Negative Superbugs (Grant 11000886)."

**Zhou, Qi**; physics & astronomy, from National Science Foundation, \$82,257, "Exploring Contacts in New Era: Spin-Orbit Coupling and Dimension Crossover (Grant 10001423 – Amendment #2)."

**Zhou, Qi**; industrial & physical pharmacy, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$573,080, "Combating Deadly Gram-Negative Lung Infections: an Inhalation and Systems Approach (Grant 11000624, Amendment #3)."

**Zillich, Alan J**; pharmacy practice, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,317, "2021 PHARM PTC SRG." ■

### **Notice Regarding Sponsored Program Awards**

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