

## Abrahamson to Bouslog

**Abrahamson, Kathleen A;** nursing, from Indiana University, \$6,674, "Caregiver Survey."

**Adeola, Olayiwola;** animal sciences, from BASF Corporation, \$10,000, "BASF Research."

**Adibuzzaman, Mohammad;** industrial engineering, from Indiana University School of Medicine, \$35,026, "Trends in Mortality in ICU Patients with Cirrhosis; Amendment #1 to Grant 40003086." (a Discovery Park award - Regenstrief Center)

**Alexeenko, Alina;** aeronautics & astronautics, from Bristol-Myers Squibb Company, \$10,000, "LyoHub Consortium-Bristol-Myers."

**Alexeenko, Alina;** aeronautics & astronautics, from Cook Biotech, Inc., \$10,000, "LyoHub Consortium-Cook Biotech."

**Alexeenko, Alina;** aeronautics & astronautics, from Hoffmann-La Roche Inc., \$30,000, "LyoHub Consortium."

**Ambrose, Rose Prabin Kingsly and Wassgren, Carl R;** agricultural & biological engineering, mechanical engineering, from CNH Industrial, \$213,655, "Validation and Application of a DEM-Based Model for Predicting Grain Damage."

**Andrisani, Ourania M;** basic medical science, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$344,520, "Mechanisms of Hepatocyte Transformation by the Hepatitis B Virus X Protein (Grant 11000597)."

**Armstrong, Shalamar D and Thompson, Nicholas D;** agronomy, from Illinois Nutrient Research & Education Council, \$190,437, "A Long-Term Evaluation of Nitrogen Application Timing, Precision Planted Cover Crops, and Adaptive Nitrogen Fertilizer Management Impacts on Cash Crop Yield, Water Quality on Tile Drained Fields."

**Armstrong, Shalamar D and Thompson, Nathanael M;** agronomy, agricultural economics, from University of Minnesota, \$249,871, "Precision Winter Cereal Rye Cover Cropping for Improving Farm Profitability and Environmental Stewardship."

**Bagchi, Saurabh;** electrical & computer engineering, from Adobe Systems Incorporated, \$30,000, "Adobe."

**Bagchi, Saurabh; Kate, Aniket Pundlik and Chaterji, Somali;** electrical & computer engineering, computer science, agricultural & biological engineering, from Army Research Laboratory, \$246,654, "Consensus Under Energy Constraints for Dynamic Distributed Cyber-Physical Systems; Modification 1, Grant 13000848."

**Baldos, Uris Lantz C and Hertel, Thomas W;** agricultural economics, from University of Minnesota, \$60,544, "Continuation of Global Futures Project with World Bank and UMN."

**Bartholomew, Sarah;** psychological sciences, from Oregon Health Sciences University, \$23,771, "ADHD Heterogeneity, Mechanisms, and Risk Profile (Grant 11001074)."

**Bartholomew, Sarah and Lane, Sean P;** psychological sciences, from PHS-NIH National Institute of Mental Health, \$708,390, "Behavioral Validation of the ADHD Emotion Dysregulation Phenotype (Grant 11001073)."

**Basaran, Osman A;** chemical engineering, from Countrymark, Inc., \$12,500, "Purdue Process Safety and Assurance Center (P2SAC)."

**Basaran, Osman A;** chemical engineering, from Phillips 66, \$25,000, "Purdue Process Safety and Assurance Center (P2SAC)."

**Basaran, Osman A;** chemical engineering, from 3M General Offices, \$25,000, "Purdue Process Safety and Assurance Center (P2SAC)."

**Basaran, Osman A;** chemical engineering, from Eli Lilly and Company, \$25,000, "Purdue Process Safety and Assurance Center (P2SAC)."

**Basaran, Osman A;** chemical engineering, from Kenexis, \$3,750, "Purdue Process Safety and Assurance Center (P2SAC)."

**Basaran, Osman A;** chemical engineering, from AcuTech Group, Inc, \$5,000, "Purdue Process Safety and Assurance Center (P2SAC)."

**Beaulieu, Lionel J and Kumar, Indraneel;** Purdue Center for Regional Development, from Economic Development Administration, \$32,930, "KIRPC Region Ag Strategy."

**Benjamin, Tamara J and Hawley, John L;** Cooperative Extension Service, field extension, from Indiana State Department of Health, \$5,117, "Farm to School."

**Bermel, Peter A; Johnson, David R; Raghunathan, Anand and Sen, Shreyas;** engineering administration, industrial engineering, electrical & computer engineering, from Department of the Army, \$497,000, "Scale Cornerstone Ota - Supply Chain Awareness Continuing Education Extension." (a Discovery Park award - Birck Nanotechnology Center)

**Bharadwaj, Hari M;** speech, language & hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$376,301, "Individualized Assays of Supra-Threshold Hearing Deficits; Amendment 5, Grant 11000573."

**Bianchi, Antonio;** computer science, from Arizona State University, \$150,000, "CHECRS: Cognitive Human Enhancements for Cyber Reasoning Systems; Amendment 3, Grant 13000849."

**Bigelow, Cale A;** horticulture & landscape architecture, from Turfgrass Water Consrvn Alliance Ltd, \$5,000, "Multi Sponsored Gift- Sensory."

**Blocki, Jeremiah M;** computer science, from National Science Foundation, \$114,045, "CAREER: Cryptographic Tools for Usable Human Authentication."

**Borovsky, Arielle;** speech, language & hearing sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$559,768, "Lexico-Semantic Abilities in Early Language Growth and Delay."

**Bouslog, Lori A;** field extension, from United Way of Wabash Valley, \$15,000, "Purdue Extension: Empowering All Ages to Move Towards Financial Stability through Evidence-Based Programming."

## Braun to Ersoy

**Braun, James E;** mechanical engineering, from Regal Beloit Manufacturing Corp, \$50,000, "Center for High Performance Building Consortium-Regal Beloit."

**Burgess, Wilella Daniels;** education administration, from University of Illinois at Chicago, \$23,760, "Professional Development for K-12 Science Teachers in Linguistically Diverse Classrooms, Amendment 1; Grant 10001673."

**Caldwell, Barrett S;** industrial engineering, from University of Southern Indiana, \$1,000, "INSGC Affiliate Dues-University of Southern Indiana."

**Campbell, Wayne W;** nutrition science, from National Cattlemen's Beef Association, \$54,712, "The Influence of Red Meat Intake on Inflammation and Immune Response Biomarkers in Human Adults."

**Campbell, Wayne W and Olson, Matthew;** nutrition science, biological sciences, from Mushroom Council, \$56,374, "Immunity, Inflammation, and Health Promotion of Mushrooms."

**Carlton, Joshua S and Hook, Tomas O;** Illinois-Indiana Sea Grant, forestry & natural resources, from National Oceanographic & Atmospheric Adm, \$85,731, "Aquaculture Supplement: Developing Aquaculture and Aquaponics Curricula."

**Chandrasekar, Srinivasan and Udupa, Anirudh;** industrial engineering, from Sandia National Laboratories, \$35,000, "Shear-Based Deformation Processing of Novel Soft Magnetic Alloys."

**Chawla, Nikhilesh;** materials engineering, from Arizona State University, \$95,476, "AI Institute: Planning: Novel Neural Architectures for 4D Materials Science."

**Chmielewski, Jean A;** chemistry, from Trask Trust Fund, \$33,628, "Cell-Penetrating Antimicrobial Peptides for Treatment of Serious Lung Infections."

**Christie, Mark R;** biological sciences, from Great Lakes Fishery Commission, \$197,463, "Genetic and Phenotypic Basis for Fishery-Induced Evolution in Lake Michigan Yellow Perch."

**Cline, Melanie R;** Purdue Healthcare Advisors, from Altarum Institute, \$239,663, "CMS Macra Support for Small Practices; Amendment 5." (a Discovery Park award - Purdue Healthcare Advisors.)

**Collicott, Steven H;** aeronautics & astronautics, from National Aeronautics and Space Administration, \$17,473, "Enhancing Sub-Orbital Tech Advancement through Automated Control of High-Def Video Systems."

**Connor, Robert J;** civil engineering, from Transportation Technology Center, \$95,000, "Machine Vision Measurement of IN-Track Rail Stresses for Track Stability (Grant 40003170)."

**Cooks, Robert Graham;** chemistry, from University of Colorado, \$52,731, "Quantitation of Tenofovir-Diphosphate (Tfv-Dp) in Blood Cells."

**Das, Chittaranjan and Luo, Zhao-qing;** chemistry, biological sciences, from PHS-NIH National Institute of General Medical Science, \$41,330, "Mechanism of Atypical Ubiquitination and Deubiquitination by Bacterial Effectors (Grant 11000675)."

**Davis, Kirsten A;** engineering education, from National Science Foundation, \$189,679, "Eager International Type II: Collaborative Research: Reimagining International Research for Students in a Virtual World."

**Dawson, Daniel T;** earth, atmospheric & planetary sciences, from National Severe Storms Lab, \$111,981, "Investigation of Microphysical Processes in SE-US Tornadoic QLCs through in Situ Surface Disdrometer Observations in Support of Perils."

**Delaurentis, Daniel A;** aeronautics & astronautics, from Science Applications International, \$16,000, "Master Agreement; SAIC GXT CPS AHT Advance Hypersonics Technology." (a Discovery Park award - Institute for Global Security and Defense Innovation.)

**Delaurentis, Daniel A;** aeronautics & astronautics, from Science Applications International, \$29,000, "SAIC GXT CPS AHT Advance Hypersonics Technology (Grant 13000945; Modification #1)." (a Discovery Park award - Institute for Global Security and Defense Innovation.)

**Delaurentis, Daniel A and Ezra, Kristopher L;** aeronautics & astronautics, from Science Applications International, \$80,000, "Strategic Missions Systems Engineering Division (GXT) Engineering and Administrative Support - NEMS - F3018." (a Discovery Park award - Institute for Global Security and Defense Innovation.)

**Delp, Edward J;** electrical & computer engineering, from Indiana University Purdue University at Indianapolis, \$121,349, "Center for Advanced Renal Microscopic Analysis."

**Dodds, Laura Jane;** field extension, from Central Indiana Community Foundation (CICF), \$5,000, "Marion County 4-H Teens as Teachers Summer Program."

**Dodds, Laura Jane;** field extension, from 16 Tech Community Corporation, \$20,000, "Purdue Extension Youth Maker Program."

**Douglas, Kerrie A;** engineering education, from National Science Foundation, \$297,358, "CAREER: Fair Assessments: Moving the Field from Blaming Students to Understanding the Technical Qualities of Tests that Disadvantage Minoritized Engineering Students."

**Eicher-Miller, Heather A;** nutrition science, from University of Notre Dame, \$20,460, "Food Information Networks (Fins): Building Data-Driven Supports for Increasing Access and Healthy Food Choices in Low-Income Neighborhoods."

**Erasmus, Marisa A;** animal sciences, from Agricultural Research Service, \$928, "Probiotic, *Bacillus Subtilis*, Prevents Feather Pecking and Cannibalism in Laying Hens."

**Erickson, Bruce J and LaRose, Sarah E;** agronomy, Agricultural Sciences Education and Communication, from National Institute of Food and Agriculture, \$2,139, "Growing the Workforce for Digital Agriculture."

**Erickson, Bruce J and LaRose, Sarah E;** agronomy, Agricultural Sciences Education and Communication, from National Institute of Food and Agriculture, \$297,861, "Growing the Workforce for Digital Agriculture."

**Ersoy, Okan K;** electrical & computer engineering, from Henry Miller Opticians, \$175,580, "Computational Methods for Diffractive Imaging and Financial Forecasting (Grant 40002979)."

## Field to Jacob

**Field, William E;** agricultural & biological engineering, from Stacey Lynn Brittsan, \$30, "Breaking New Ground."

**Field, William E;** agricultural & biological engineering, from Country Journal Publishing Co., Inc, \$1,000, "Farm Safety."

**Figueiredo, Marxa L;** basic medical science, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$304,716, "Facilitating Endogenous Bone Repair in Arthritis with Targeted IL-27 Sonodelivery (Grant 11000687 Rev #4)."

**Gallardo, Roberto;** Purdue Center for Regional Development, from National Digital Inclusion Alliance, \$15,240, "Sioux Falls Digital Inclusion Plan."

**Gao, Jing;** electrical & computer engineering, from Adobe Systems Incorporated, \$10,000, "Vol. Sup - Adobe Gao."

**Garner, Allen L;** nuclear engineering, from Office of Naval Research, \$255,345, "Improving Performance of Crossed-Field Amplifiers through Modulation Injection (Grant 13000988 Modification P1)."

**Garner, Allen L; Camarillo, Ignacio G and Sundararajan, Rajeswari;** nuclear engineering, biological sciences, engineering technology, from Office of Naval Research, \$177,969, "Multiscale, Multiphysics Study of Thermal and Nonthermal Directed Energy Biological Effects."

**Goergen, Craig J;** biomedical engineering, from University of California - Berkeley, \$68,750, "Noninvasive Measurement of Intradiscal Strains Under Dynamic Loading; Amendment 1, Grant 11000979."

**Grillos, Tara;** political science, from National Science Foundation, \$271,759, "Collaborative Research: Collective Decision Making & Local Public Good Provision: Experimental Evidence from Kenyan Villages."

**Habib, Ayman F and Bullock, Darcy M;** civil engineering, from Indiana Department of Transportation, \$154,534, "Salt Monitoring and Reporting Technology (SMART): Development of a Photogrammetric System for Salt Inventory Reporting."

**Heister, Stephen D and Pourpoint, Timothee L;** aeronautics & astronautics, from National Aeronautics and Space Administration, \$178,405, "Rotating Detonation Combustion for Space Engines Using Reduced Toxicity Hypergolic Propellants; Modification 1, Grant 12000325."

**Hertel, Thomas W;** agricultural economics, from McKinsey & Company, Inc., \$20,345, "GTAP Consortium-Mckinsey."

**Hertel, Thomas W;** agricultural economics, from National Graduate Institute for Policy Studies, \$20,435, "GTAP Consortium-Grips."

**Hess, Douglas E;** Division of Financial Aid, from Indiana Commission for Higher Education, \$2,300, "2020-2021 Scholarcorps AmeriCorps Program."

**Hess, Justin L; Jesiek, Brent K and Riley, Donna M;** engineering education, electrical & computer engineering, from National Science Foundation, \$349,516, "Collaborative Research: Research: Identifying Intersections Between Diversity, Equity, and Inclusion (Dei) and Ethics in Engineering."

**Hill, Catherine A;** entomology, from Bio-Gene Technology Limited, \$12,795, "IN Vivo Efficacy Studies: Sub-Lethal and Delayed Effects of Flavesone Against Mosquitoes."

**Hill, Michael A;** Center for Environmental and Regulatory Information Systems, from Animal Plant Health Inspection Service, \$102,790, "Cooperative Agricultural Pest Survey Information Services (Capsis) FY 21."

**Hogenesch, Harm;** comparative pathobiology, from Toralgen, Inc, \$575, "Biodistribution of Nanoparticles."

**Hook, Tomas O and Archer, Angela S;** forestry & natural resources, Illinois-Indiana Sea Grant, from National Oceanographic & Atmospheric Adm, \$59,000, "2021 National Sea Grant Knauss Fellowship - Molly Cain (IU Student)."

**Hook, Tomas O; Carlton, Joshua S; Foley, Carolyn J and Gunn, Megan L;** forestry & natural resources, Illinois-Indiana Sea Grant, from National Oceanographic & Atmospheric Adm, \$199,765, "Illinois-Indiana Sea Grant Base Increase 2020-2021."

**Horgan, Briony H;** earth, atmospheric & planetary sciences, from U.S. Geological Survey, \$23,743, "Investigating Explosive Volcanic Deposits in the Montes Apenninus Area Using Moon Mineralogy Mapper Data, Amendment 1; Grant 15200084."

**Horgan, Briony H;** earth, atmospheric & planetary sciences, from Jet Propulsion Laboratory, \$30,000, "Using Composition to Constrain Paleoenvironments and Sites of Organic Preservation in Gale Crater."

**Horgan, Briony H;** earth, atmospheric & planetary sciences, from Jet Propulsion Laboratory, \$47,258, "Using Composition to Constrain Paleoenvironments and Sites of Organic Preservation in Gale Crater."

**Horton, William Travis;** civil engineering, from American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE), Inc, \$50,000, "Multi Sponsor - Voluntary Support."

**Hu, Y Charlie;** electrical & computer engineering, from Charter Communications, \$215,000, "Improve XR Streaming for "Off-the-Shelf" Content Over the Wan."

**Ingwell, Laura L; Guan, Wenjing; Maynard, Elizabeth T; Langenhoven, Petrus and Hoagland, Lori A;** entomology, horticulture & landscape architecture, from University of Minnesota, \$249,919, "Improving Two Spotted Spider Mite Management in High Tunnel Cucumber Production."

**Irazoqui, Pedro; Ganesh, Vivek and Shah, Jay V;** electrical & computer engineering, biomedical engineering, from Trask Trust Fund, \$25,000, "A Wearable Alerting Device for Monitoring Impending Sudep Risk through Multiple Biomarkers."

**Iyer-Pascuzzi, Anjali;** botany & plant pathology, from National Aeronautics and Space Administration, \$180,709, "The Effect of Spaceflight and Microgravity on Plant Defense Responses (Grant 12000309)."

**Jacob, Zubin;** electrical & computer engineering, from Defense Advanced Research Projects Agency, \$501,000, "Development of Ultrafast Cameras for Quantum Heat Assisted Detection and Ranging (Q-Hadar)." (a Discovery Park award - Birck Nanotechnology Center)

**Jacob, Zubin; Jiao, Dan and Aggarwal, Vaneet;** electrical & computer engineering, industrial engineering, from Defense Advanced Research Projects Agency, \$439,534, "Adaptive Quantum Perceptronics (Grant 13000947)."



## Jacob to Mei

**Jacob, Zubin; Li, Tongcang; Lu, Na; Rahman, Rajib and Xuan, Yi;** electrical & computer engineering, physics & astronomy, civil engineering, biomedical engineering, from Defense Advanced Research Projects Agency, \$500,000, "Designing Quantum Fluctuational Meta-Molecules for Giant Cooperative Light-Matter Interaction Beyond Spectral Boundaries, Modification 5; Grant 13000678." (a Discovery Park award - Birck Nanotechnology Center)

**Jewell, Joseph S and Chynoweth, Brandon C;** aeronautics & astronautics, from Johns Hopkins University Applied Physics, \$13,782, "Control of Boundary-Layer Transition."

**Jewell, Joseph S and Chynoweth, Brandon C;** aeronautics & astronautics, from Sandia National Laboratories, \$32,409, "Measurements in a Forward Facing Cavity Under Quiet and Noisy Flow."

**Jung, Andreas;** physics & astronomy, from Fermi National Accelerator Laboratory, \$150,000, "High Luminosity (HL) LHC CMS Detector Upgrade Project Outer Tracker."

**Kenttamaa, Hilkka I;** chemistry, from Neste Oil Oyj, \$37,000, "No-Cost Extension: Investigating the Validity of the Saturated and Unsaturated Hydrocarbon Class Concentrations Obtained Using the ASTM D2425 (2019) Method (40003013)."

**Klimeck, Gerhard;** electrical & computer engineering, from Intel Corporation, \$75,000, "NCN Membership- Intel."

**Kokini, Jozef L; Bhunia, Arun K and Liceaga, Andrea M;** food science, from National Institute of Food and Agriculture, \$476,270, "Functionalization of Pea Proteins Using Cold Extrusion for Applications that Include Emulsification and Gelation."

**Kuang, Shihuan;** animal sciences, from Adipo Therapeutics LLC, \$10,000, "Multi Sponsor."

**Kuhn, Richard J;** biological sciences, from PHS-NIH National Institute Allergy Infectious Disorders, \$516, "Identification of Flavivirus Nucleocapsid Core-Envelope Glycoprotein Interactions (Grant 11001117)."

**Kuhn, Richard J;** biological sciences, from PHS-NIH National Institute Allergy Infectious Disorders, \$30,170, "Rapid Generation of Vaccine Candidates Against Novel Wuhan Coronavirus (Sars-Cov-2) Using the Bacteriophage T4 Nanoparticle Platform (Grant 11000992)."

**Kuhn, Richard J;** biological sciences, from PHS-NIH National Institute Allergy Infectious Disorders, \$646,229, "Structural Studies of Togaviruses (Grant 11000821)."

**Laskin, Alexander;** chemistry, from Center for Bioanalytic Metrology, \$50,000, "Separation and Quantitative Characterization of Chemical Constituents of Aerosolized Biomass-Derived Liquids Using Hplcpda-Hrms Platform."

**Laskin, Alexander;** chemistry, from National Science Foundation, \$188,941, "NSF-BSF: Understanding Evolution of Atmospheric Brown Carbon."

**Lee, Chi Hwan;** mechanical engineering, from National Science Foundation, \$320,000, "Collaborative Research: Three-Dimensional Flexible Biosensor Enabling Label-Free Spatial Mapping of Intra-Organoid Functions."

**Lee, Hyowon;** biomedical engineering, from National Science Foundation, \$104,286, "CAREER: Self-Clearing Glutamate Biosensor Towards Chronic Neurodegeneration Monitoring; Modification 1; Grant 10001620."

**Lee, Linda S;** agronomy, from CDM Smith, \$20,000, "Assessing Poly- and Perfluoroalkyl Substance Release from Finished Biosolids (Amendment #2 to Grant 41000691)."

**Lescun, Timothy B; Crain, Christa J and McCain, Robyn R;** veterinary clinical sciences, Preclinical Research Lab, from Novosteo Inc, \$4,808, "Drug Dose Escalation Study in 3 Dogs."

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

**Little, Dianne; Aryal, Uma K; Calve, Sarah; Cooper, Bruce R; SanMiguel, Phillip John and Thimmapuram, Jyothi;** basic medical science, medicinal chemistry & molecular pharmacology, biomedical engineering, agricultural administration, Bioinformatics Core recharge, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, \$445,148, "Driver Genes for Engineered Rotator Cuff Development (Grant 11000840 Amend. #3)."

**Lu, Na;** civil engineering, from National Science Foundation, \$55,000, "Pfi-Tt: Developing a Self-Powered Pipeline Sensing and Monitoring System."

**Lyon, Angeline M;** biological sciences, from University of TX Health Science Center at Houston, \$124,000, "Neuropathology in Tauopathies STEM from Depolarization-Induced Alterations in the Planar Distribution of Phosphoinositides."

**Ma, Jianxin;** agronomy, from National Institute of Food and Agriculture, \$500,000, "Deciphering the Pleiotropic Effects of Long Non-Coding RNAs on Morphological Traits in Soybean."

**Mahmoudian, Nina and Rastgaar, Mo;** mechanical engineering, engineering technology, from Office of Naval Research, \$40,000, "A Modular Undersea Infrastructure for Uuv Delivery and Replenishment (Grant 13000862)."

**Manfra, Michael James;** electrical & computer engineering, from Microsoft Corporation, \$127,125, "Year 4 Consumables - Microsoft Quantum Computing (40001700)." (a Discovery Park award - Birck Nanotechnology Center)

**Mapa, Lakshman B and Aryal, Gokarna Raj;** engineering technology, mathematics, statistics & computer science, from Hammond Group, Inc, \$2,400, "Conduct Design of Experiments (Data Analysis) of the Barton Pot Lead Oxide Reactor."

**Marais, Karen and Poggie, Jonathan;** aeronautics & astronautics, from University of Tennessee Space Institute, \$59,964, "Curriculum Development for the Hypersonic Workforce."

**Martinez, Ramses;** industrial engineering, from National Science Foundation, \$309,887, "CAREER: Rapid and Ultrasensitive Critical Care Testing at the Point of Need Using Multiplexed Transient-State Digital Assays."

**Mei, Jianguo;** chemistry, from Ambilight, Inc, \$225,000, "Ambilight, Inc."

## Miller to Puthiyaveetil

**Miller, Margaret A;** comparative pathobiology, from PHS-NIH National Cancer Institute, \$4,996, "NIH Tuition Only Fellowship for Stacey Piotrowski (Grant 11000745, Spring 2021)."

**Miller, Margaret A;** comparative pathobiology, from PHS-NIH National Cancer Institute, \$4,996, "NIH Tuition Only Fellowship for Katelin Davis (Grant 11000877, Spring 2021)."

**Miller, Margaret A;** comparative pathobiology, from PHS-NIH National Cancer Institute, \$4,996, "NIH Tuition Only Fellowship for Patrick Huang (Grant 11001039, Spring 2021)."

**Min, Byung-Cheol;** computer information technology, from National Science Foundation, \$90,765, "CAREER: Adaptive Human Multi-Robot Systems (Grant 10001461)."

**Mishra, Dharmendra K;** food science, from Ember and Oak Rib House, \$75, "Multi Sponsored Gift."

**Mishra, Dharmendra K;** food science, from Michigan State University, \$1,800, "Bench Fee - Maryam Batool."

**Mishra, Dharmendra K and Deering, Amanda J;** food science, from Foreign Agricultural Service, \$109,915, "Training Program on U.S. Healthy Food Ingredients and Processing for India."

**Moding, Kameron Jean;** human development & family studies, from National Institute of Food and Agriculture, \$13, "An Integrated Approach to Examine Caregiver Feeding Persistence in Offering Vegetables to Infants and Toddlers."

**Moding, Kameron Jean;** human development & family studies, from National Institute of Food and Agriculture, \$62,153, "An Integrated Approach to Examine Caregiver Feeding Persistence in Offering Vegetables to Infants and Toddlers."

**Mohammadhasanzadeh, Sogand and Redick, Thomas S;** civil engineering, psychological sciences, from National Science Foundation, \$137,128, "Collaborative Research: Improving Worker Safety by Understanding Risk Compensation as a Latent Precursor of at-Risk Decisions."

**Morisette, Dallas T;** electrical & computer engineering, from Sonrisa Research Inc, \$12,200, "High-Voltage N-Channel Igbts with Waffle Substrates."

**Morisette, Dallas T;** electrical & computer engineering, from II-VI Foundation, \$13,646, "Deposited Gate Oxides for Next Generation Sic Power MOSFETs (41000392)."

**Morrow, Mary R; Davis, Janet H; Eastland, Taryn and Hass, Zachary J;** nursing administration, Nursing BS Program, from Indiana Organization of Nurse Executives, \$10,000, "Validating a Minority Registered Nurse Perception of Recruitment and Retention Survey: a Pilot Study."

**Mosier, Nathan S;** agricultural & biological engineering, from Indiana Soybean Alliance, \$50,000, "Development of Enzymatic Process for Soy-Based Polymers."

**Mull, Casey Downs and Shufflebarger, Ashley Dawn;** Cooperative Extension Service - 4-H, field extension, from Metropolitan School Dist Wayne Township, \$45,000, "Wayne Township School Corporation 4-H Programming."

**Nagy, Zoltan;** chemical engineering, from Leidos, \$487,761, "Continuous Flow Crystallization of Energetic Compounds."

**Nagy, Zoltan and Beaudoin, Stephen P;** chemical engineering, from BAE Systems Advanced Technologies, Inc., \$214,180, "Continuous Crystallization Development Support at the Holston Army Ammunition Plant."

**Nariman, Sam;** mathematics, from National Science Foundation, \$27,364, "Homotopy Theory of Foliations and Diffeomorphism Groups."

**Okuniewski, Maria A;** materials engineering, from Idaho National Laboratory, \$18,500, "Atomistic Simulations of Defects in Umo."

**Oliver, Haley F; Chaubey, Indrajeet; Deering, Amanda J; Ebner, Paul D; Ricker-Gilbert, Jacob E and Wang, Hui-Hui;** food science, earth, atmospheric & planetary sciences, animal sciences, agricultural economics, agricultural sciences education & communication, from Agency for International Development, \$2,000,000, "Feed the Future Innovation Lab for Food Safety."

**Paniagua Perez, Guillermo;** mechanical engineering, from Office of Naval Research, \$50,000, "Modulated Enhancement of Heat Exchangers - MEHEX (Grant 13000770)."

**Parkinson, Elizabeth I;** chemistry, from PHS-NIH National Institute of General Medical Science, \$1,056, "Gamma Butyrolactones as Biosynthetic Gene Cluster Inducers (Grant 11001120)."

**Patton, Aaron J;** horticulture & landscape architecture, from Midwest Regional Turf Foundation, \$24,176, "Midwest Regional Turf Foundation."

**Perkins, Jennifer Lyn;** Executive Vice President for Research and Partnerships administration, from Elanco Inc, \$50,000, "Bindley Bioscience Core Facilities Standing Order."

**Pinal, Rodolfo;** industrial and physical pharmacy, from Astrazeneca Product Development, \$45,000, "Center for Pharmaceutical Processing Research Consortium - Astrazeneca."

**Pipes, R Byron; Barocio Vaca, Eduardo and Favaloro, Anthony J;** materials engineering, Composites Manufacturing and Simulation Center, from Idaho National Laboratory, \$22,500, "Macroscopic Modeling for Additive Manufacturing of Stainless Steel - Extension 2."

**Pothen, Alex;** computer science, from Pacific Northwest National Laboratory, \$110,752, "ExaGraph: Exascale Computing Project Code-sign Center (Grant 14000528)."

**Powley, Terry L;** psychological sciences, from University of Michigan, \$150,302, "The Virtual Stomach."

**Powley, Terry L and Phillips, Robert J;** psychological sciences, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$69,630, "Autonomic Control of Body Weight and Feeding (Grant 11000571)."

**Purpura, David J;** human development & family studies, from Lehigh University, \$77,386, "Development of a Responsive Computerized-Adaptive Assessment System for Prek Mathematics."

**Puthiyaveetil, Sujith;** biochemistry, from U.S. Department of Energy, \$204,876, "Core Phosphorylation as a Modulator of Photosystem II Functional and Biogenetic Assembly, Modification 1; Grant 14000496."

## Qiu to Taheripour

**Qiu, Qiang and Peroulis, Dimitrios;** electrical & computer engineering, from Duke University, \$27,755, "Cds&E: Structure-Aware Representation Learning Using Deep Networks."

**Qiu, Xiaokang;** electrical & computer engineering, from National Science Foundation, \$135,555, "CAREER: Democratizing Algorithmic Program Synthesis."

**Ramanathan, Shriram;** materials engineering, from Johns Hopkins University Applied Physics, \$55,912, "Thin Film Ion Conductors for Concentration Cells."

**Reibman, Amy R and Delp, Edward J;** electrical & computer engineering, from Ford Motor Company, \$203,905, "Computer Vision for Low Quality Data."

**Rhoads, Jeffrey Frederick; Bolton, J Stuart; Davies, Patricia; Gonzalez, Marcial and Son, Steven F;** mechanical engineering, from Air Force Research Laboratory, \$135,000, "Exploring the Thermomechanics of Energetic and Mock Energetic Composite Materials Under Quasi-Static and Near-Resonant Excitations, Modification 10; (Grant 13000634)."

**Ribeiro, Fabio H;** chemical engineering, from Clariant Corporation, \$30,000, "CISTAR Industrial Consortium, Clariant 2021 40001938."

**Ribeiro, Fabio H;** chemical engineering, from ExxonMobil Chemical Company, \$30,000, "CISTAR Industrial Consortium, ExxonMobil 2021, 40001938."

**Ribeiro, Fabio H;** chemical engineering, from Air Liquide, \$30,000, "CISTAR Industrial Consortium, Air Liquide 2021 40001938."

**Ribeiro, Fabio H;** chemical engineering, from Nice America Research, \$15,000, "CISTAR Industrial Consortium, Nice 2021 40001938."

**Ribeiro, Fabio H;** chemical engineering, from RAPID Manufacturing Institute, \$5,000, "CISTAR Industrial Consortium, Rapid 2021 40001938."

**Richert, Brian T;** animal sciences, from Archer Daniels Midland Co, \$16,000, "Swine Research."

**Robinson, Joseph Paul and Wu, Xi;** basic medical science, from Trask Trust Fund, \$50,000, "Handheld Device for Real-Time Detection of Pathogens, Toxins, and Contaminating Chemicals for Biodefense and Food Chain Analysis."

**Roy, Kaushik;** electrical & computer engineering, from Georgia Institute of Technology, \$55,275, "Expert: Explainable-AI through Efficient Hardware-Design in Emerging Technologies."

**Ruhl, Christopher A;** treasurer & CFO administration, from U.S. Department of Education, \$22,148,619, "Crrsaa - HEERF - CARES Act Institutional Funds - PWL."

**Sabbaghi, Arman and Cleveland, William S;** statistics, from Sandia National Laboratories, \$100,000, "A Statistical Analysis and Improvements to the Tcarss Synthetic Dataset Generation Methods; Modification 1, Grant 14000467."

**Salazar, Kara A;** Illinois-Indiana Sea Grant, from Hoosiers for Renewables, \$5,000, "Voluntary Support- Salazar."

**Sandhage, Kenneth H and Sangid, Michael D;** materials engineering, aeronautics & astronautics, from Rolls-Royce Corporation, \$53,396, "Fatigue of Sic-Based Composites; Amendment 1, Grant 40001954."

**Sangha, Susan;** psychological sciences, from PHS-NIH National Institute of Mental Health, \$384,548, "Neural Circuitry of Safety, Fear and Reward Cue Discrimination (Grant 11000694)."

**Saraswat, Dharmendra and Hancock, Benjamin G;** agricultural & biological engineering, from Indiana Soybean Alliance, \$1,194, "Updating Infield Advantage Web Application-Phase III."

**Saraswat, Dharmendra; Chaterji, Somali; Cherkauer, Keith A and Buckmaster, Dennis;** agricultural & biological engineering, from National Institute of Food and Agriculture, \$246,000, "Dsabe: Graduate Training in "Data Science for Agricultural and Biological Engineering (Dsabe)."

**Savran, Cagri A;** mechanical engineering, from Robert L. Brady, \$9,860, "Voluntary Support."

**Schoenlein, William E;** biomedical engineering, from Cook Research Incorporated, \$7,758, "Pre-Clinical Evaluation Testing Agreement: Cbi-Bfmd and POC."

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

**Scutari, Gesualdo;** industrial engineering, from Army Research Office, \$60,000, "Distributed Robust Nonconvex Optimization Over Time-Varying Networks: Tradeoffs and Guarantees; Modification 5; Grant 13000661."

**Shah, Kavita;** chemistry, from PHS-NIH National Cancer Institute, \$357,927, "Targeting Drug-Resistant Castration Resistant Prostate Cancer via LIMK2 (Grant 11000985)."

**Shaver, Gregory M and Evans, John T;** mechanical engineering, agricultural & biological engineering, from John Deere US Ag, \$150,000, "Autonomous Systems Development Tools - Tool Transition & Software Support."

**Shih, Tom I-P;** aeronautics & astronautics, from Ames Laboratory, \$100,000, "Computational Analysis of Advanced Cooling Strategies for High-Efficiency and Long-Service Life Gas Turbines (Grant 14000477)."

**Slabaugh, Carson D and Lucht, Robert P;** aeronautics & astronautics, mechanical engineering, from Stanford University, \$100,000, "Predictive Simulations of Particle-Laden Turbulence in a Radiation Environment."

**Slabaugh, Carson D; Meyer, Terrence R and Paniagua Perez, Guillermo;** aeronautics & astronautics, mechanical engineering, from Spectral Energies, LLC, \$329,979, "Concurrent High-Fidelity Measurements and Simulations for Advancing the Design of Rotating Detonation Engines."

**Sudhoff, Scott D and Pekarek, Steven D;** electrical & computer engineering, from Florida State University, \$24,995, "Purdue 2017-2021 ESRDC Efforts; Amendment 12, Grant 13000510."

**Taheripour, Farzad;** agricultural economics, from iCone, \$27,600, "Induced Land Use Change: Brazilian Ethanol Produced from Corn as a Second Crop."

**Taheripour, Farzad;** agricultural economics, from Federal Aviation Administration, \$523,000, "Alternative Jet Fuel Supply Chain Analysis - Corsia Fuels Support."



## Tan to Yeo

**Tan, Lin and Zhang, Xiangyu;** computer science, from National Science Foundation, \$24,000, "REU Supplement: SHF: Medium: Principled Co-Reasoning of Software and Natural-Language Artifacts."

**Taylor, Lynne S;** industrial and physical pharmacy, from Merck Sharp & Dohme Corp, \$50,000, "Enable Solid-State Biological Products through the Development of Approaches to Better Understand Protein-Excipient Miscibility and Spatial Homogeneity."

**Telenko, Darcy E P;** botany & plant pathology, from Certis USA LLC, \$2,000, "Extension Voluntary Support."

**Telenko, Darcy E P;** botany & plant pathology, from Arysta Life-science North America Corp, \$4,800, "Extension Voluntary Support."

**Tesmer, John;** biological sciences, from PHS-NIH National Cancer Institute, \$355,725, "GPCR - Linked Rhogefs in Tumor Growth and Metastasis (Grant 11000689)."

**Thom, James Mark and Johnson, Mary E;** aviation & transportation technology, from Federal Aviation Administration, \$8,138, "PAFI Phase IIa (Grant 16100090)."

**Titus, Michael S;** materials engineering, from National Science Foundation, \$108,119, "CAREER: High Temperature Strengthening via Solute-Enhanced Stacking Faults in Structural Alloys (Grant 10001452 Amendment #2)."

**Tomar, Vikas;** aeronautics & astronautics, from Triton Systems, Inc, \$40,000, "Highly Loaded Grain Nanocomposite Rocket Propellants."

**Torres Arias, Santiago;** electrical & computer engineering, from Google Inc, \$150,000, "Multi Sponsor."

**Trumble, Kevin P and Chandrasekar, Srinivasan;** materials engineering, industrial engineering, from National Science Foundation, \$360,510, "GOAL: Scalable Single-Step Manufacturing of High-Performance Titanium Sheet Metal Alloys by Shear-Based Deformation Processing."

**Tu, Manghui and Jiang, Keyuan;** computer information technology & graphics (CIT&G), from National Science Foundation, \$817,436, "Cybercorps (R): Scholarship for Service (Sfs) Program at Purdue University Northwest (Grant 10001276)."

**Vacca, Andrea;** agricultural & biological engineering, from CNH - Hydraulic Competency Center, \$975, "Rational Design of the Hydraulic Circuit of Agricultural Tractors Considering the Implement Functions (Grant 40002805)."

**Vacca, Andrea;** agricultural & biological engineering, from Parker Hannifin Corp., \$58,050, "High Speed Aerospace Internal Gear Pump."

**Vacca, Andrea and Sudhoff, Scott D;** agricultural & biological engineering, electrical & computer engineering, from U.S. Department of Energy, \$410,058, "Individual Electro-Hydraulic Drives for Off-Road Vehicles; Modification 7; Grant 14000368."

**van Rijn, Richard M and French, Alexander R;** medicinal chemistry & molecular pharmacology, chemistry, from PHS-NIH National Institute of Mental Health, \$34,281, "Engineering Optogenetic Tools for Studying Neuropeptide Activity."

**Velasquez De Bedout, Juan D and Stuart, Jeffrey J;** Office of Corporate and Global Partnerships Administration, entomology, from Gobernacion del Huila, \$145,675, "Undergraduate Research Experience Purdue - Cotizacion Huila - 10 Students."

**Watts, Val J;** medicinal chemistry & molecular pharmacology, from Indiana University, \$65,693, "Characterization of the Tissue Distribution and Signaling Properties of GPR162."

**Weake, Vikki Marie;** biochemistry, from PHS-NIH National Eye Institute, \$13,165, "R-Loops as a Novel Driver of Photoreceptor Aging; Amendment 2, Grant 11000959."

**Wei, Alexander;** chemistry, from Higher Education Commission Pakistan, \$3,460, "Bench Fee for Syeda Aqsa Batool."

**Weibel, Justin A;** mechanical engineering, from Raytheon BBN Technologies, \$30,000, "Cooling Technologies Research Center (CTRC), Raytheon 2021."

**Weibel, Justin A;** mechanical engineering, from 3M General Offices, \$30,000, "Cooling Technologies Research Center (CTRC), 3M 2021 - 40002838."

**Weibel, Justin A;** mechanical engineering, from Red Bull Technology Ltd, \$30,000, "Cooling Technologies Research Center (CTRC), Red Bull 2021 - 40002838."

**Weibel, Justin A;** mechanical engineering, from Red Bull Technology Ltd, \$66,000, "Multi - Sponsored."

**Weibel, Justin A;** mechanical engineering, from Aavid Thermalloy, \$7,500, "Cooling Technologies Research Center (CTRC), Aavid Q4 2020 - 40002838."

**Weibel, Justin A;** mechanical engineering, from Dow Chemical USA, \$11,250, "Cooling Technologies Research Center (CTRC), Dow Q3 40002838."

**Wendt, Michael K;** medicinal chemistry & molecular pharmacology, from PHS-NIH National Cancer Institute, \$349,001, "Overcoming Metastatic Resistance to Erbb-Targeted Therapies (Grant 1100578)."

**Wilker, Jonathan J and Schmidt, Gudrun;** chemistry, from Leidos, \$13,429, "Biomimetic Underwater Adhesives, Modification 4; Grant 13000845."

**Wright, Gail G;** field extension, from REMC Multi-County Community Trust, \$2,000, "Community Teaching Kitchen."

**Yang, Danzhou and Sintim, Herman O;** medicinal chemistry & molecular pharmacology, chemistry, from PHS-NIH National Cancer Institute, \$393,161, "Targeting MYC Promoter G-Quadruplex for MYC Inhibition by Indenoisoquinolines."

**Yatcilla, Jane F;** libraries administration, from Equine Asthma Group, Inc, \$4,275, "A Series of Systematic Reviews."

**Ye, Peide;** electrical & computer engineering, from University of Notre Dame, \$450,000, "Applications and Systems Driven Center for Energy-Efficient Integrated Nanotechnologies (Ascent); Amendment 5, Grant 40002005."

**Yeo, Yoon;** industrial and physical pharmacy, from PHS-NIH National Cancer Institute, \$602,006, "Systemic Delivery of Sirna by Nanosac for Checkpoint Blockade Immunotherapy of Head and Neck Squamous Cell Cancer."

## Young to Ziviani

**Young, Bryan G;** botany & plant pathology, from Colle McVoy LLC, \$12,000, "Weed Science Research Voluntary Support."

**Young, Bryan G;** botany & plant pathology, from Belchim Crop Protection US, LLC, \$36,500, "Weed Science Research Voluntary Support."

**Young, Bryan G;** botany & plant pathology, from Helm Agro US, Inc, \$7,500, "Weed Science Research Voluntary Support."

**Youngblood, Jeffrey P;** materials engineering, from Trask Trust Fund, \$25,000, "Processing of Near-Minimum Viable Product Prototype for Biodegradable Packaging from Cellulose Nanofibrils."

**Yu, Wenbin;** aeronautics & astronautics, from Dassault Systemes Inc, \$50,000, "CdmHUB (Consortium)."

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

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

**Zhou, Chenn Qian;** mechanical & civil engineering, from Steel Dynamics Inc, \$45,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership (40001337)."

**Zhou, Chenn Qian;** mechanical & civil engineering, from Praxair Inc, \$45,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

**Zhou, Chenn Qian;** mechanical & civil engineering, from Nucor Steel Corp., \$45,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

**Zhou, Chenn Qian;** mechanical & civil engineering, from AK Steel, \$45,000, "Steel Manufacturing Visualization and Simulation Consortium (SMVSC) Membership."

**Zhou, Chenn Qian and Silaen, Armin K;** Center for Innovation through Visualization and Simulation, from Nucor Steel Corp., \$9,975, "Impact of Electromagnetic Brake on Surface Standing Wave in a Continuous Casting Mold."

**Zhou, Mo and Liang, Jingjing;** forestry & natural resources, from University of Kentucky, \$46,609, "Enhancing the Awareness, Knowledge, and Understanding of Sustainable Maple Syrup Production Practices Among Current and Potential Maple Syrup Producers."

**Zhou, Mo; Reeling, Carson J; Lee, John G; Swihart, Robert K and Ma, Zhao;** forestry & natural resources, agricultural economics, from Indiana Department of Natural Resources, \$500,970, "An Integrated Economic Assessment of Outdoor Activities Related to White-Tailed Deer and Furbearer in Indiana."

**Ziviani, Davide; Braun, James E and Groll, Eckhard A;** mechanical engineering, from U.S. Department of Energy, \$309,718, "No Vapor-Compression Electrochemical Looping Heat Pump (Novel HP); Modification 2." ■

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