

DIMENSIONS *of* DISCOVERY

Sponsored Program Awards

August 2017

Abel to Bouman

Abel, Steven R; Office of Engagement, from Woodrow Wilson National Fellowship Foundation, \$98,500, "Indiana Teaching Fellowship Program."

Allebach, Jan P; electrical and computer engineering, from Hewlett Packard, \$75,000, "Embedding of Data in Hard Copy by Circular Coding."

Allebach, Jan P; Bolton, J Stuart; Chiu, George T and Davies, Patricia; electrical and computer engineering, mechanical engineering, from Hewlett Packard, \$350,000, "Print Quality Improvement."

Alsop, Janet M; curriculum and instruction, from Purdue Doctoral Program, \$25,924, "Strait, Marquette."

Ambrose, Rose Prabin Kingsly and Wassgren, Carl R; agricultural and biological engineering, from Whirlpool Corp, \$1,563, "Particle Density and Size."

Ambrose, Rose Prabin Kingsly; agricultural and biological engineering, from Multi-Sponsored Industrials, \$700, "Multi-Sponsored Gift."

Applegate, Bruce M; food sciences, from Frechette, Philip R, \$12,500, "Food Microbiology Research."

Ardekani, Arezoo Motavalizadeh; mechanical engineering, from National Science Foundation, \$255,736, "Collaborative Research: the Effects of Fluid Flow on Flagellar Mechanics and Microbial Motility."

Ardekani, Arezoo Motavalizadeh; mechanical engineering, from Purdue University F N Andrews Fellowship, \$31,904, "Zhang, Yuchen."

Armstrong, S Dorsey; English, from Winifred B. Bilsland Endowment, \$30,618, "Schnurr, Ryan."

Armstrong, S Dorsey; English, from Winifred B. Bilsland Endowment, \$30,618, "Midtvedt, David."

Armstrong, S Dorsey; English, from Winifred B. Bilsland Endowment, \$30,618, "Johnson, Joel."

Armstrong, Shalamar D; agronomy, from Ross Graduate Fellowship-Assistantship, \$29,526, "Roth, Richard T."

Bahr, David F; materials engineering, from Los Alamos National Laboratory, \$30,000, "Nanoindentation of Mock Materials for Mechanical Property Evaluation."

Bareinboim, Elias; computer science, from National Science Foundation, \$536,513, "RI: Medium: Collaborative Research: Causal Inference: Identification Learning, and Decision-Making."

Beaulieu, Lionel J; Wilcox, Michael D and Strohm, Heather E; Office of Engagement, agriculture – administration, field extension educators, from Mississippi State University, \$26,400, "Stronger Economies Together: Phase VII -- Indiana Program."

Benes, Bedrich and Garcia, R Edwin; computer graphics technology, materials engineering, from National Science Foundation, \$150,000, "EAGER: Collaborative Research: Inverse Procedural Material Modeling for Battery Design."

Berry, Frederick C; engineering technology, from Lawrence Livermore National Laboratory, \$6,000, "Automated Solar Panel Cleaner."

Bigelow, Cale A; horticulture and landscape architecture, from National Turfgrass Evaluation Program, \$53,050, "2016 Cool-Season Water Use and Drought Reseistance Test (CSWU-16-04)."

Bolin, Jeffrey T; Executive Vice President for Research and Partnerships, from Purdue University, \$29,526, "FY17-18 Purdue Research Foundation (PRF) Research Grant."

Bolin, Jeffrey T; Executive Vice President for Research and Partnerships, from Purdue University, \$29,526, "FY17-18 Purdue Research Foundation (PRF) Research Grant."

Bolin, Jeffrey T; Executive Vice President for Research and Partnerships, from Purdue University, \$9,249, "Office of the Vice President for Research (OVPR) Bridge Funding."

Bolin, Jeffrey T; Executive Vice President for Research and Partnerships, from Purdue University, \$29,526, "FY17-18 Purdue Research Foundation (PRF) Research Grant."

Bolin, Jeffrey T; Executive Vice President for Research and Partnerships, from Purdue University, \$29,526, "FY17-18 Purdue Research Foundation (PRF) Research Grant."

Boltasseva, Alexandra; Jacob, Zubin and Shalae, Vladimir M; electrical and computer engineering, from U.S. Department of Energy, \$436,385, "Control of Light-Matter Interaction with Epsilon-Near-Zero Homogeneous Alternative Plasmonic Materi." (a Discovery Park award – Birck Nanotechnology Center)

Bolton, J Stuart; mechanical engineering, from Beijing Ancsonic Technology Co. Ltd, \$118,000, "China Voluntary Support."

Boudouris, Bryan W and Thompson, Corey M; chemical engineering, chemistry, from American Chemical Society, \$5,000, "ACS Project Seed Award 2017."

Bouman, Charles A and Midkiff, Samuel P; electrical and computer engineering, from High Performance Imaging, \$34,000, "Advanced Material Discrimination Task 5.1 X-Ray Architectural Design Concepts Phase 2."

Brady to Deng

Brady, Colleen M; youth development and agricultural education, from Winifred B. Bilsland Endowment, \$10,729, “Lofgren, Elise.”

Braile, Lawrence W; earth, atmospheric, and planetary science, from Chevron U.S.A., Inc., \$25,000, “Chevron Sage Summer 2017.”

Braun, James E; mechanical engineering, from Emerson Climate Technologies, \$50,000, “Center for High Performance Building Consortium.”

Buzzard, Gregory T; mathematics, from GS Bridge Assistantships, \$24,729, “Richardson, Maleek.”

Cabot, Ryan A; animal sciences, from PHS-NIH National Institute of Child Health and Human Development, \$328,206, “Developmental Requirements of SWI/SNF Chromatin Remodeling Complexes in Porcine Embryos.”

Cai, Hubo; civil engineering, from Purdue University F N Andrews Fellowship, \$31,904, “Cai, Jiannan.”

Calve, Sarah; biomedical engineering, from National Center Comp and Integrative Health, \$2,234,425, “Defining the Mechanical Link that Unites the Musculoskeletal System During Limb Development.”

Capano, Michael A; electrical and computer engineering, from Purdue University F N Andrews Fellowship, \$31,904, “Ruzomberka, Eric.”

Capano, Michael A; electrical and computer engineering, from Purdue University F N Andrews Fellowship, \$31,904, “Chatterjee, Baibhab.”

Capano, Michael A; electrical and computer engineering, from GS Bridge Assistantships, \$20,616, “Prasad, Amritha.”

Capano, Michael A; electrical and computer engineering, from Purdue Doctoral Program, \$31,904, “Akomoledé, Oluseye.”

Chandrasekar, Srinivasan and Trumble, Kevin P; industrial engineering, materials engineering, from Army Research Office, \$40,284, “Fluid-Like Flow, Surface Instabilities and Folding in Metal Plasticity and Wear.”

Chen, Weinong W; aeronautics and astronautics, from University of Delaware, \$37,767, “Real Time Damage Visualization in Composites; Amendment 1 [Grant 108919].”

Chen, Weinong W; aeronautics and astronautics, from Corvid Technologies, \$25,000, “Human Tissue Characterization.”

Cheng, Guang; statistics, from National Science Foundation, \$46,387, “Collaborative Research: Nonparametric Bayesian Aggregation for Massive Data.”

Cherkauer, Keith A; agricultural and biological engineering, from Chappelle, \$21,229, “Kines, Stephen.”

Chiang, Mung; Engineering Administration and Engineering Experiment Station, from Qualcomm Incorporated, \$75,000, “Voluntary Support Qualcomm.”

Chiang, Mung; Engineering Administration and Engineering Experiment Station, from Google Inc, \$75,000, “Voluntary Support Google.”

Clawson, Rosalee A; political science, from Ludwig Kruhe Graduate Scholarship, \$21,229, “Nie, Mintao.”

Connor, Robert J; civil engineering, from University of Missouri, \$9,000, “Guidelines to Improve the Quality of Element-Level Bridge Inspection Data; Amendment 2, Grant 107948).”

Cooks, Robert Graham; chemistry, from Naval Surface Warfare Center Crane Div, \$40,000, “Forensic Organic and Elemental Analysis Associated with Microelectronics.”

Cooks, Robert Graham; chemistry, from Merck Sharp and Dohme Corp, \$75,000, “Evaluation of a Desorption Electrospray Ionization (DESI) Based Plate Reader for Analysis of Biochemical Assays.”

Cooks, Robert Graham; chemistry, from Genentech Corporation, Inc., \$1,000, “Pfizer Analytical Chem Fellowship.”

Cooks, Robert Graham; chemistry, from National Aeronautics and Space Administration, \$65,785, “Precursor and Neutral Loss Scans in a Single Ion Trap and Application to Planetary Exploration – Dalton Snyder.”

Cooks, Robert Graham; chemistry, from National Aeronautics and Space Administration, \$210,064, “New Scan Modes in Ion Trap Mass Spectrometers for Planetary Exploration.”

Corti, David S and Franses, Elias I; chemical engineering, from National Science Foundation, \$300,000, “Effects of Dispersant Molecular Structure on the Stabilization of Dispersions Against Agglomeration and Sedimentation.”

Couture, John J; entomology, from University of Wisconsin-Madison, \$9,915, “Foliar Traits and Ecosystem Variability Across Neon Domains.”

Crabtree, Roberta D; field extension educators, from State Farm Companies Foundation, \$6,000, “Beginners Guide to Grant Writing.”

Cui, Meng; electrical and computer engineering, from PHS-NIH National Institute Neurological Disorders and Stroke, \$422,359, “High Resolution Deep Tissue Calcium Imaging with Large Field of View Wavefront Correction.”

Dabiri, Sadegh and Ardekani, Arezoo Motavalizadeh; agricultural and biological engineering, mechanical engineering, from National Science Foundation, \$417,186, “Transport, Evolution, and Induced Mixing of Bubble Swarms Across Pycnoclines.”

Datchev, Kiril; mathematics, from National Science Foundation, \$185,000, “Geometric Scattering Theory, and Propagation and Decay of Waves.”

DeLaurentis, Daniel A; Lee, Seokcheon and Nof, Shimon Y; aeronautics and astronautics, industrial engineering, from Naval Sea Systems Command Naval Surface Warfare Center (NAVSEA/NSWC) Crane, \$0, “For Research Maturation of Complex Systems / System-of-Systems Technologies for Architecting, Evolving and Rapid Response Research (RAPID) Decision-Making.”

DeLaurentis, Daniel A and Crossley, William A; aeronautics and astronautics, from Federal Aviation Administration, \$107,067, “Ascent Project #10: Aircraft Technology Modeling and Assessment.”

Delp, Edward J; electrical and computer engineering, from Air Force Research Laboratory, \$229,705, “Media Forensics Integrity Analytics.”

Deng, Qing; biological sciences, from PHS-NIH National Institute of General Medical Science, \$369,178, “Role of Micrnas in Neutrophil Migration.”

Donkin to Gabauer

Donkin, Shawn S; animal sciences, from Ross Graduate Fellowship-Assistantship, \$31,904, “Smith, Erika.”

Doudareva, Natalia; biochemistry, from Michigan State University, \$290,551, “Evolution of Specialized Metabolite Biosynthetic Pathways in the Lamiaceae: Sources of Chemical Diversity for Molecules Essential for Human Use and Plant Defense, Amendment 3; Grant 107805”

Drineas, Petros S and **Paschou, Peristera**; computer science, biological sciences, from National Science Foundation, \$499,984, “III:Small:Novel Approaches for Sparse PCA, Matrix Completion, and Kernel Discriminant Analysis for Mining Human Genetics Datasets.”

Ebert, David S; electrical and computer engineering, from U.S. Department of Homeland Security, \$80,000, “Visual Analytics for Command, Control, and Interoperability (VACCINE): Visual Analytics for Command, Control, Interoperability, National Security and Emergencies.” (a Discovery Park award – Discovery Park Administration)

Edmondson, David A; health sciences, from PHS-NIH National Institute of Environment Health Science, \$468, “Multimodal Neuroimaging Approaches to Modeling Manganese Toxicity.”

Egel, Daniel S; botany and plant pathology, from Bayer Cropscience, \$5,000, “Native Plant Restoration for the Pollinators at the Southwest Purdue Agriculture Center.”

Ejeta, Gebisa; agronomy, from Kansas State University, \$151,007, “Genetic Enhancement of Sorghum to Promote Commercial Seed Supply and Grain Market Development in Ethiopia.”

El-Azab, Anter A; materials engineering, from Idaho National Laboratory, \$13,000, “Phase Field Model Development for Recrystallization with Deformation Stored Energy and Microstructure Representation.”

El-Azab, Anter A; materials engineering, from U.S. Department of Energy, \$185,630, “Dislocation Patterning in Deformed Crystals: Theory, Computational Predictions and Validation.”

El-Azab, Anter A; materials engineering, from National Science Foundation, \$430,000, “Continuum Dislocation Dynamics Modeling of Mesoscale Crystal Plasticity at Finite Deformation.”

Elliott, Stephen John and **Oconnor, Kevin J**; technology, leadership, and innovation, from Intellectual Ventures Management LLC, \$218,970, “Global Good? Biometrics and Children Data Collection (Ages 0-5 Year Olds).”

Farkas, Brian E; food sciences, from Multi-Sponsored Industrials, \$30, “Multi-Sponsored Gift Fermentation.”

Fekete, Donna M; biological sciences, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$44,044, “Molecular Regulators of Innervation and Patterning Across the Developing Cochlea.”

Fentiman, Audeen W and **Nie, Linda H**; engineering education, health sciences, from Nuclear Regulatory Commission, \$348,510, “Nuclear Engineering and Health Physics Fellowship Program at Purdue University.”

Fernandez-Juricic, Esteban; biological sciences, from Showalter Trust, \$5,000, “2014 Showalter Awards.”

Field, William E; agricultural and biological engineering, from Posey County Farm Bureau, \$300, “Farm Safety.”

Flaherty, Elizabeth A; forestry and natural resources, from Society for Study of Amphibians and Reptiles, \$500, “Zachary Truelock: Variability in Diets of Midwestern Snakes in Response to Prescribed Burning.”

Fleet, James C; nutrition science, from Ross Graduate Fellowship-Assistantship, \$29,526, “Zhao, Yiying.”

Fleet, James C; nutrition science, from Purdue University F N Andrews Fellowship, \$29,176, “Goldbaum, Audrey.”

Forman, Michele R; nutrition science, from Purdue University F N Andrews Fellowship, \$18,874, “Reister, Evan.”

Franses, Elias I; chemical engineering, from Purdue University F N Andrews Fellowship, \$31,904, “Hsieh, An-Hsuan.”

Frisbee, Marty D; earth, atmospheric, and planetary science, from National Science Foundation, \$88,604, “Collaborative Research: Tectonic and Climatic Forcing of Hydrological Systems in the Southern Great Basin.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Tinsley, Samantha.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Kurgan, Logan.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Corpstein, Clairissa.”

Gabauer, Colleen L; graduate school administration, from Purdue University F N Andrews Fellowship, \$26,379, “Tinsley, Samantha.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Cheng, Bi.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Asberry, Andrew.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Min, Sehong.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Bi, Cheng.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Agredo, Alejandra.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Hobbs, Emilie.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Wang, Yueyang.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Sackey, Felicia.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Kulkarni, Aneesha.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Kumar, Shreya.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Kurgan, Logan.”

Gabauer to Goldenstein

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$26,379, “Malek, Emily.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Wu, Runrun.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Brumm, Peter.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Onyedibe, Kenneth.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Sackey, Felicia.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Lee, Soojung.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Canaria Gonzalez, Daniel Alejandro.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Onyedibe, Kenneth.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Wu, Runrun.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Agredo, Alejandra.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Lee, Soojung.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Ahkin Chin Tai, Janiel.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Asberry, Andrew.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Brumm, Peter.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,880, “Harris, Arryn.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Wang, Yueyang.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$35,880, “Hensel, Jennifer.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Kumar, Shreya.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Canaria Gonzalez, Daniel Alejandro.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Min, Sehong.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Kulkarni, Aneesha.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Hobbs, Emilie.”

Gabauer, Colleen L; graduate school administration, from Lynn Interdisciplinary Graduate Fellowship, \$26,379, “Corpstein, Clairissa.”

Gabauer, Colleen L; graduate school administration, from Interdisciplinary Fellowships, \$9,501, “Corpstein, Clairissa.”

Garcia Bravo, Jose M and Newell, Brittany A; engineering technology, from The Vibration Institute, \$500, “Flexible 3-D Printed Sensors and Actuators.”

Garimella, Suresh V; mechanical engineering, from Aavid Thermalloy, \$7,500, “Cooling Technologies Research Center (CTRC) Membership – Memo Match for 106029.”

Garimella, Suresh V; mechanical engineering, from Purdue University, \$865, “FY16-17 Purdue Research Foundation (PRF) Research Grant.”

Garrison, James L; aeronautics and astronautics, from National Aeronautics and Space Administration, \$82,364, “Assimilation of Global Navigation Satellite System (GNSS)-R Delay-Doppler Maps into Hurricane Models.”

Gaskill, Brianna N; animal sciences, from Purdue University F N Andrews Fellowship, \$31,399, “Lafollette, Megan.”

Gavin, Timothy P; Abbott, Angela R and Burgess, Wilella Daniels; health and kinesiology, health and human sciences, education-administration, from PHS-CDC Centers for Disease Control, \$573,672, “Reducing Obesity in Indiana through Community Involvement to Increase Prevention.”

Ghosh, Arun K; medicinal chemistry and molecular pharmacology, from PHS-NIH National Institute of General Medical Science, \$492,407, “Design and Synthesis of Nonpeptide Protease Inhibitors.”

Ghosh, Arun K; chemistry, from Stonehill, Lloyd, \$5,000, “Multi-Sponsored – a Ghosh.”

Gibert, James M; mechanical engineering, from National Science Foundation, \$293,229, “Collaborative Research: Understanding the Multiscale Behavior of Triboelectric Devices.”

Gibson, Kevin W; Office of the Indiana State Chemist, from Purdue University Special Initiative Program, \$32,273, “Cronin, Janelle.”

Gibson, Kevin W; Office of the Indiana State Chemist, from Purdue University Special Initiative Program, \$34,853, “Chong, Rylan.”

Ginzel, Matthew D; entomology, from R3 Ag Consulting LLC, \$7,500, “Vol Support R3 Ag Consulting LLC.”

Gkritza, Konstantina; civil engineering, from Purdue University F N Andrews Fellowship, \$31,904, “Ke, Yue.”

Goergen, Craig J; biomedical engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, “Cebull, Hannah.”

Goergen, Craig J; biomedical engineering, from Winifred B. Bilsland Endowment, \$21,229, “Phillips, Evan.”

Goergen, Craig J; biomedical engineering, from Purdue Doctoral Program, \$31,904, “Berman, Alycia.”

Goforth, Reuben R and Rode, Robert A; forestry and natural resources, from U.S. Geological Survey, \$42,406, “Correlating Asian Carp Edna and/or Microbial Tracking Technologies with Telemetry Data in the Wabash River.”

Goldenstein, Christopher S; mechanical engineering, from Defense Threat Reduction Agency, \$98,304, “Wavelength-Modulation Absorption Spectroscopy for MHz Thermometry and Species Sensing.”

Goodsell to Hill

Goodsell, Johnathan Eugene and **Pipes, R Byron**; aeronautics and astronautics, materials engineering, from Solvay Composites Materials, \$7,598, “Material Characterization for Prepreg Press Forming.”

Goodsell, Johnathan Eugene and **Sharp, Nathan D**; aeronautics and astronautics, Composites Manufacturing and Simulations Center, from Solvay Composites Materials, \$9,334, “Material Characterization for Prepreg Press Forming.”

Goosen, Robert K; **Pandey, Ashutosh** and **Shih, Tom I-P**; Technical Assistance Program, aeronautics and astronautics, from Dekker Vacuum Technologies, Inc., \$27,636, “Dekker Vacuum 3rd Year Research.”

Goosen, Robert K; Technical Assistance Program, from California Manufacturing Technology Consulting, \$149,976, “Embedding Purdue Manufacturing Extension Partnership (MEP) Personnel within IMI for Collaborative Pilot Projects.”

Govindaraju, Rao S; civil engineering, from American Society of Civil Engineers, \$6,125, “Support for the ASCE *Journal of Hydrologic Engineering*.”

Govindaraju, Rao S; civil engineering, from American Society of Civil Engineers, \$6,125, “Support for the ASCE *Journal of Hydrologic Engineering*.”

Gowher, Humaira; biochemistry, from National Science Foundation, \$223,000, “Role of Divergent lncRNAs in Transcriptional Priming and Enhancer-Mediated Activation of Nearby Genes.”

Gray, Nicholas W; Office of Multicultural Affairs, from Indiana Department of Education, \$9,500, “2017 Indiana University-Purdue University Fort Wayne (IPFW) Upward Bound Summer Food Service Program.”

Groll, Eckhard A; mechanical engineering, from Air Squared, \$20,000, “Vapor Compression Refrigeration System for Cold Storage on Spacecrafts.”

Groll, Eckhard A and **Braun, James E**; mechanical engineering, civil engineering, from Inventherm, \$25,000, “Modeling and Analysis of the Meso-Scale Ericsson Power Generation System (MEPS).”

Groll, Eckhard A; mechanical engineering, from S Ram Dynamics, \$60,000, “Multi-Temperature Refrigerated Container System (MTRCS) Analysis, Part 2: System Modeling, Controls and Testing.”

Guan, Wenjing; horticulture and landscape architecture, from Agrodyne Solutions, LLC, \$3,000, “Chris Gunter General Research Activities.”

Guan, Wenjing; horticulture and landscape architecture, from Agrofresh Inc, \$15,000, “Chris Gunter General Research Activities.”

Guan, Wenjing; horticulture and landscape architecture, from Enza Zaden USA Inc, \$700, “Chris Gunter General Research Activities.”

Guzey, Siddika; **Ayres, Drew C**; **Bryan, Lynn A**; **Ryu, Minjung** and **Asunda, Paul A**; curriculum and instruction, technology, leadership, and innovation, from Indiana Department of Education, \$9,948, “A New MSP Partnership to Improve Science, Technology, Engineering and Mathematics (STEM) Integration in Indiana.”

Guzey, Siddika; **Ayres, Drew C**; **Bryan, Lynn A**; **Ryu, Minjung** and **Asunda, Paul A**; curriculum and instruction, technology, leadership, and innovation, from Indiana Department of Education, \$60,916, “A New MSP Partnership to Improve Science, Technology, Engineering and Mathematics (STEM) Integration in Indiana.”

Haddock, John E; civil engineering, from Indiana Department of Transportation, \$150,000, “Federal Highway Portion (LTAP) – 2017/18 Funding.”

Haddock, John E; civil engineering, from Indiana Department of Transportation, \$40,258, “Investigating the Need for HMA Drainage Layers.”

Handwerker, Carol A; **Blendell, John E** and **Subbarayan-Shastri, Ganesh**; materials engineering, mechanical engineering, from Missile Defense Agency, \$249,490, “Reliability Risk Management of Gold Contaminated Tin-Lead and Lead-Free Solder Joints in Military Electronics; Modification 6 for Grant #108101.”

Harbin, Sherry L; **Rickus, Jenna L**; **Panitch, Alyssa** and **Park, Kinam**; biomedical engineering, agricultural and biological engineering, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$167,483, “Bioengineering Interdisciplinary Training for Diabetes Research.”

Harbor, Jonathan M; earth, atmospheric, and planetary science, from Purdue University Special Initiative Program, \$23,229, “Yang, Mohan.”

Hastak, Makarand; **Nateghi, Roshanak** and **Tyner, Wallace E**; construction engineering and management, industrial engineering, agricultural economics, from National Science Foundation, \$468,851, “Towards a Resilient Grid: an Investment Prioritization Decision Framework that Integrates the Growing Risks of Severe Weather- Induced Outages.”

Heister, Stephen D; aeronautics and astronautics, from National Aeronautics and Space Administration, \$74,000, “Aerospike Nozzle for Rotating Detonation Engine – Alexis Harroun.”

Heister, Stephen D; aeronautics and astronautics, from National Aeronautics and Space Administration, \$74,000, “Quasi-1 Dimensional Modeling of Rotational Detonation Engines – Jenna Humble.”

Hertel, Thomas W; agricultural economics, from Rieti (Research Institute of Economy, Trade and Industry Iai, \$20,435, “Global Trade Analysis Project (GTAP) Consortium.”

Hertel, Thomas W; agricultural economics, from United Nations Ec Commission W Asia, \$40,870, “Global Trade Analysis Project (GTAP) Consortium.”

Hertig, John B; pharmacy administration, from Lilly (ELI) and Company, \$74,997, “Medication Safety Fellowship.”

Hibiki, Takashi; nuclear engineering, from Institute of Nuclear Safety Systems, Inc, \$22,500, “Improvement of Void Fraction Correlation for Rod Bundle and Downcomer.”

Hicks, Jennifer L; Office of Engagement, from TNTF, \$48,323, “Itf Science, Technology, Engineering and Mathematics (STEM) ED Math Track Overview.”

Hill, Catherine A; entomology, from Showalter Trust, \$5,000, “2013 Showalter Awards (207373).”

Hockerman to Kate

Hockerman, Gregory H; medicinal chemistry and molecular pharmacology, from Showalter Trust, \$5,000, “2015 Showalter Scholar Awards.”

Honorio Carrillo, Jean F; computer science, from National Science Foundation, \$272,979, “RI: Small: Efficient Learning and Inference with Perturbations.”

Horgan, Briony H; earth, atmospheric, and planetary science, from Jet Propulsion Laboratory, \$35,161, “Using Composition to Constrain Paleoenvironments and Sites of Organic Preservation in Gale Crater, Modification3; Grant 108399.”

Horton, William Travis; civil engineering, from Ludwig Kruhe Graduate Scholarship, \$21,229, “Lumpkin, Dominique.”

Hountz, Randall A and Clare, Mark K; industrial engineering, from Indiana State Office of Rural Health, \$106,146, “Leadership-Pull Improvements in Critical Access Hospital.” (a Discovery Park award – Regenstrief Center for Healthcare Engineering)

Hountz, Randall A; Regenstrief Center for Healthcare Engineering, from Altarum Institute, \$273,975, “Compact Muon Solenoid (CMS) Macra Support for Small Practices.” (a Discovery Park award – Regenstrief Center for Healthcare Engineering)

Hountz, Randall A; industrial engineering, from Northwestern University, \$353,717, “Midwest Small Practice Care Transformation Research Alliance; Amendment 3; (Grant 107754).” (a Discovery Park award – Regenstrief Center for Healthcare Engineering)

Hoverman, Jason T; forestry and natural resources, from National Science Foundation, \$245,088, “Collaborative Research: Disease Ecology in the Midst of Anthropogenic Stressors Exploring the Influence of Pesticides on Host-Parasite Interactions.”

Hrycyna, Christine A; Davidson, Amy L and Paul, Lake N; chemistry, biological sciences, from PHS-NIH National Institute of General Medical Science, \$27,690, “Structure, Function and Conformational Dynamics of the Ste14p Methyltransferase.”

Hu, Changdeng; medicinal chemistry and molecular pharmacology, from Showalter Trust, \$5,000, “FY16-17 Showalter Scholars.”

Hu, Y Charlie; electrical and computer engineering, from Qualcomm Incorporated, \$75,000, “Qualcomm Faculty Award.”

Hu, Y Charlie; electrical and computer engineering, from Intel Corporation, \$58,333, “Voluntary Support Intel.”

Hua, Inez; civil engineering, from Purdue Doctoral Program, \$31,904, “Frost, Kali.”

Huang, Fang; biomedical engineering, from PHS-NIH National Institute of General Medical Science, \$376,067, “Interferometric 3-D Super-Resolution Imaging and Structure and Stoichiometry Mapping in Living Cells.”

Hultgren, Kyle E and Degnan, Daniel D; pharmacy administration, from Regenstrief Institute Inc, \$12,500, “Medication Safety Support at Eskenazi Health.”

Irazoqui, Pedro; biomedical engineering, from Rehabilitation Institute of Chicago, \$15,057, “A Pilot Trial to Assess Implantable Myonodes to Improve Prosthetic Function for Transhumeral Amputees after Targeted Muscle Reinnervation; Amendment 1 [Grant 108749].”

Irazoqui, Pedro; biomedical engineering, from Showalter Trust, \$5,000, “2013 Showalter Awards.”

Irfanoglu, Ayhan and Laughery, Lucas A; civil engineering, from Catholic Relief Services, \$64,400, “Dynamic Tests of Stone Masonry Walls with Earth Mortar.”

Ishii, Mamoru; nuclear engineering, from Nuclear Regulatory Commission, \$2,659, “Task 1: Interfacial Area Transport in a 1-Inch Pipe.”

Iyer, Ananth V; management, from Ross Graduate Fellowship-Assistantship, \$15,243, “Um, Cyril.”

Iyer, Ananth V; management, from Purdue Doctoral Program, \$12,119, “Mechem, Lindsay.”

Iyer, Ananth V; management, from Ross Graduate Fellowship-Assistantship, \$15,243, “Tran, Duong.”

Jacob, Zubin; electrical and computer engineering, from Guardian Industries Corp, \$163,001, “Fundamental Trade-Offs in Building Envelope Design: Optimization and Fabrication.” (a Discovery Park award – Birck Nanotechnology Center)

Jiang, Qing; nutrition science, from Showalter Trust, \$5,000, “2014 Showalter Awards.”

Jiang, Qing; nutrition science, from California Table Grape Commission, \$30,000, “The Effect of a Whole Grape Powder on Colitis-Promoted Colon Tumorigenesis and Gut Microbiota.”

Jiang, Wen; biological sciences, from Showalter Trust, \$5,000, “FY 16-17 Showalter Scholars.”

Jiao, Dan; electrical and computer engineering, from Semiconductor Research Corporation, \$100,000, “Accurate and Efficient Signaling Analysis of Non-Linear Circuits and Systems; Amendment 2 (Grant 208464).”

Jin, Jian; agricultural and biological engineering, from Sumitomo Chemical Company, \$724,957, “Greenhouse Plant Phenotyping for Detecting Physiological and Morphological Changes.”

Johnson, Carla J; curriculum and instruction, from Battelle Memorial Institute, \$101,526, “Battelle – Army Educational Outreach Program Cooperative Agreement; Modification7; Grant 108058.”

Johnson, William G; botany and plant pathology, from Nufarm Americas Inc., \$11,500, “Weed Science Research Voluntary Support.”

Johnston, Cliff T; agronomy, from Michigan State University, \$4,332, “Geochemical Controls on the Adsorption, Bioavailability, and Long-Term Environmental Fate of Polychlorinated Dibenzo-P-Dioxins (PCDDs); Amendment 6; Grant 106793.”

Jun, Martin Byung-Guk; mechanical engineering, from Korea Institute of Industrial Technology, \$75,792, “Development of Manufacturing System for CFRP (Carbon Fiber Reinforced Plastics) Machining.”

Karpicke, Jeffrey D; psychological science, from U.S. Department of Education, \$504,827, “Computer-Based Guided Retrieval Practice for Elementary School Children.”

Katare, Bhagyashree; agricultural economics, from Lynn Interdisciplinary Graduate Fellowship, \$29,526, “Wahdat, Ahmad.”

Kate, Aniket Pundlik; computer science, from National Science Foundation, \$257,669, “NSFSaTC-BSF: CORE: Collaborative: Making Blockchains Scalable and Private.”

Kelley to Kuang

Kelley, Todd R; Bryan, Lynn A and Holland, Jeffrey D; technology, leadership, and innovation, curriculum and instruction, entomology, from National Science Foundation, \$320,907, "I-Test: Teachers and Researchers Advancing Integrated Lessons in Science, Technology, Engineering and Mathematics (STEM) (TRAILS)."

Key, Nicole L; Meyer, Terrence R and Slipchenko, Mikhail N; mechanical engineering, from Rolls-Royce, Inc., \$75,000, "Development of PIV Techniques for Multistage Compressors."

Kihara, Daisuke; biological sciences, from Showalter Trust, \$5,000, "2013 Showalter Awards."

Kildishev, Alexander V; electrical and computer engineering, from Pennsylvania State University, \$95,000, "Acteom – Advanced Computational Toolkit for Engineered Optical Materials; Amendment 1."

Kim, Kee Hong; food sciences, from Showalter Trust, \$5,000, "FY18 Showalter Scholars."

Kirkpatrick, Jane M; nursing, from Health Resources and Services Administration, \$112,944, "Health Center Cluster."

Klimeck, Gerhard; Madhavan, Krishna; Strachan, Alejandro H; Zentner, Lynn K and Zentner, Michael G; electrical and computer engineering, engineering education, materials engineering, RCAC, from National Science Foundation, \$2,000,000, "Network for Computational Nanotechnology Cyber Platform." (a Discovery Park award – Network for Computational Nanotechnology)

Klimeck, Gerhard; electrical and computer engineering, from The Boeing Company, \$50,000, "Network for Computational Nanotechnology (NCN) Membership."

Kluender, Keith R; speech, language and hearing sciences, from Purdue Doctoral Program, \$20,799, "Kueser, Justin."

Kluender, Keith R; speech, language and hearing sciences, from Knox, David M. Endowment, \$21,229, "Keith Kluender."

Kluender, Keith R; speech, language and hearing sciences, from Chappelle, \$21,229, "Braden, Stacia."

Kluender, Keith R; speech, language and hearing sciences, from Chappelle, \$21,229, "Lutz, Jena."

Kluender, Keith R; speech, language and hearing sciences, from Chappelle, \$21,229, "Barnes, Sarah."

Kluender, Keith R; speech, language and hearing sciences, from Chappelle, \$21,229, "Kresca, Brooke."

Kokini, Klod; Okuniewski, Maria A and Sizyuk, Tatyana S; nuclear engineering, materials engineering, from Nuclear Regulatory Commission, \$450,000, "Faculty Development Grant for Nuclear Faculty at Purdue."

Kokini, Klod; mechanical engineering, from Nuclear Regulatory Commission, \$286,667, "U.S. Nuclear Regulatory Commission Nuclear Education Program Faculty Development Grant Program."

Kong, Nan; Purzer, Senay and Payne, Lindsey B; biomedical engineering, engineering education, Center for Instructional Excellence, from National Science Foundation, \$199,818, "Research Initiation: Enhancing the Learning Outcomes of Empathic Innovation in Longevity Engineering."

Konieczny, Stephen F; biological sciences, from Ross Graduate Fellowship-Assistantship, \$18,874, "Flower, Sharleen."

Konieczny, Stephen F; biological sciences, from Ross Graduate Fellowship-Assistantship, \$18,874, "Oprescu, Stephanie."

Konieczny, Stephen F; biological sciences, from Purdue Doctoral Program, \$22,729, "Camara, Ali."

Konieczny, Stephen F; biological sciences, from Purdue Doctoral Program, \$22,729, "Gonzalez, Brenda."

Konieczny, Stephen F; biological sciences, from Ross Graduate Fellowship-Assistantship, \$18,874, "Trapp, Rebecca."

Konieczny, Stephen F; biological sciences, from Purdue University F N Andrews Fellowship, \$29,526, "Sparks, Morgan."

Konieczny, Stephen F; biological sciences, from Winifred B. Bilsland Endowment, \$11,229, "Orellana, Esteban."

Konieczny, Stephen F; biological sciences, from Ross Graduate Fellowship-Assistantship, \$18,874, "Srinibasan, Karthik."

Konieczny, Stephen F; biological sciences, from Winifred B. Bilsland Endowment, \$11,229, "Morman, Rosemary."

Koziol, Jennifer H; Yingst, Samuel L; Funnell, Bethany J; Hammac, Gena K and Ruple, Audrey; veterinary clinical sciences, comparative pathobiology, from Theriogenology Foundation, \$5,000, "Description of the Preputial Microbiota of Bulls Using 16S r-DNA Profiling."

Krause, Jane E; pharmacy practice, from Ohio State University, \$1,000, "Generation Rx University Implementation Grant – Purdue University."

Kreisle, Regina A; comparative pathobiology, from Indiana University, \$17,817, "FY18 Indiana University School of Medicine (IUSM) Lafayette Student Activity Fund – PO 2005829."

Kreisle, Regina A; medical education, from Indiana University, \$2,520,917, "FY17-18Indiana University School of Medicine (IUSM)-Lafayette General Fund."

Kreisle, Regina A; comparative pathobiology, from Indiana University, \$9,782, "FY18 Indiana University School of Medicine (IUSM)-Lafayette Life Cycle Fund – PO 2005825."

Kreisle, Regina A; comparative pathobiology, from Indiana University, \$17,817, "FY18 Indiana University School of Medicine (IUSM) Lafayette Student Technology Fund – PO 2005828."

Kreisle, Regina A; medical education, from Indiana University, \$20,000, "FY18 Indiana University School of Medicine (IUSM) Lafayette Student and Faculty Recruitment and Retention – PO 2005824."

Krogmeier, James V; electrical and computer engineering, from Producers Marketing Association, \$5,000, "Open Ag Technology Group."

Krogmeier, James V; electrical and computer engineering, from Primuslabs, \$5,000, "Open Ag Technology Group."

Kuang, Shihuan; animal sciences, from Showalter Trust, \$5,000, "2015 Showalter Scholar Awards."

Kuang, Shihuan and Yue, Feng; animal sciences, from Muscular Dystrophy Association, \$175,409, "Therapeutic Potential of PTEN Inhibition in Duchenne Muscular Dystrophy."

Kuhn to Marconnet

Kuhn, Richard J; biological sciences, from Purdue Doctoral Program, \$29,526, “Nicholls, Conrad.”

Kulkarni, Milind; electrical and computer engineering, from National Science Foundation, \$200,000, “SPX: Collaborative Research: Eat Your Wheaties: Multi-Grain Compilers for Parallel Builds at Every Scale.”

Lacount, Douglas J; medicinal chemistry and molecular pharmacology, from Washington University, \$255,750, “Defining the Role of Host Factors in Ebola Virus RNA Synthesis; Amendment 1; (Grant 108525).”

Lang, Rafael F; physics and astronomy, from National Science Foundation, \$191,900, “Collaborative Research: Continuation of the Dark Matter Search with Xenon1T and its Upgrade XenonnT at LNGS.”

Latin, Richard X; botany and plant pathology, from Syngenta Crop Protection Inc., \$18,000, “Turfgrass Disease Research.”

Lee, Linda S; agronomy, from Lynn Interdisciplinary Graduate Fellowship, \$29,526, “Ferdous, Israt.”

Lenz, Stephen D; Hammac, Gena K and Wilson-Frank, Christina R; comparative pathobiology, from PHS-FDA Food and Drug Administration, \$34,500, “CVM Vet-LIRN Veterinary Diagnostic Laboratory Program.”

Lescun, Timothy B; veterinary clinical sciences, from Neurobiotex Inc, \$18,462, “Safety of Intra-Articular Injection of Gold Particles in Horses with Osteoarthritis: A Pilot Study.”

Li, Tonglei; pharmacy administration, from Vince and Associates, \$183,465, “Preparation of Powders of Oxycontin and Roxicodone for Clinical Studies.”

Li, Ying; horticulture and landscape architecture, from New York University, \$70,981, “Nutrinet: A Network Inspired Approach to Improving Nutrient Use Efficiency (NUE) in Crop Plants.”

Liceaga, Andrea M; food sciences, from Maplehurst Bakeries Inc, \$3,000, “Multi Sponsored Gift- Sensory.”

Liceaga, Andrea M; food sciences, from Heartland Food Products Group, \$4,500, “Multi Sponsored Gift- Sensory.”

Liceaga, Andrea M; food sciences, from Cott Beverages Inc, \$1,500, “Multi Sponsored Gift- Sensory.”

Liceaga, Andrea M; food sciences, from Natgood Operations, LLC, \$3,060, “Multi Sponsored Gift- Sensory.”

Lin, Guang; mathematics, from National Science Foundation, \$105,036, “Collaborative Research: Amps: Multi-Fidelity Modeling via Machine Learning for Real-Time Prediction of Power Systems.”

Lin, Xiaojun and Fahmy, Sonia A; electrical and computer engineering, computer science, from National Science Foundation, \$500,000, “NeTS: Small: Managing Network Function Virtualization Under Uncertainty.”

Liu, Julie C; chemical engineering, from University of California – Davis, \$40,628, “Investigation of Proteoglycan Mimetics as Treatments for Osteoarthritis.”

Liu, Xiaoqi; biochemistry, from Showalter Trust, \$5,000, “FY 16-17 Showalter Scholars.”

Liu, Xiaoqi and Ratliff, Timothy L; Center for Cancer Research, from PHS-NIH National Cancer Institute, \$354,563, “Improving Chemotherapy of Castration-Resistant Prostate Cancer.”

Liu, Zhongming; biomedical engineering, from PHS-NIH National Institute of Mental Health, \$51,971, “Multimodal Hyperspectral Imaging of Brain Activity and Connectivity.”

Love-Tillotson, Jennifer M; nutrition science, from Tipmont REMC, \$1,000, “Pack a Backpack 2017 – Tipmont REMC.”

Lu, Mengshi; management, from National Science Foundation, \$125,000, “Collaborative Research: Emerging Optimization Methods for Planning and Operating Shared Mobility Systems Under Uncertain Budget and Market Demand.”

Lu, Na; civil engineering, from Indiana University, \$46,847, “Development of Rapid Response Research (RAPID) Antimicrobial Susceptibility Testing.”

Luke, Eileen M and Hill, Michael A; Center for Environmental/Regulatory Information Systems, from Animal Plant Health Inspection Service, \$33,858, “National Plant Diagnostic Network (NPDN) Data Analysis.”

Luke, Eileen M and Hill, Michael A; Center for Environmental/Regulatory Information Systems, from Animal Plant Health Inspection Service, \$17,750, “Notify – a Clearinghouse for Nursery Shipment Notifications to State Plant Regulators.”

Lusk, Jayson L; agricultural economics, from Ross Graduate Fellowship-Assistantship, \$31,904, “Grant, Alison.”

Lusk, Jayson L; agricultural economics, from Purdue University F N Andrews Fellowship, \$31,904, “Moon, Dongwhoi.”

Lynall, Matthew D; management, from National Science Foundation, \$50,000, “I-Corps Team – Tri-D Dynamics.”

Lynch, Cyndi D; graduate school administration, from Purdue University Special Initiative Program, \$29,884, “Roshn Kotian, Romika.”

Lynch, Cyndi D; graduate school administration, from Purdue University Special Initiative Program, \$29,884, “Wu, Hsin-Man.”

Lynch, Cyndi D; graduate school administration, from Purdue University Special Initiative Program, \$29,884, “Owusu Attah, Prince.”

Lynch, Cyndi D; graduate school administration, from Purdue University Special Initiative Program, \$29,884, “Mukundan, Aishwarya.”

Lyutikov, Maxim Y; physics and astronomy, from U.S. Department of Energy, \$79,999, “Collaborative Research: Explosive Reconnection in Relativistic Magnetically-Dominated Plasmas.”

Ma, Zhao; Bauchet, Jonathan J and Zanotti, Laura C; forestry and natural resources, consumer science, anthropology, from National Science Foundation, \$274,253, “Co-Producing Environmental Conservation and Social Equity: is Conditionality in Payments for Ecosystem Services.”

MacDermid Wadsworth, Shelley and Broniarczyk, Kathy M; human development and family studies, from Veterans Affairs, Department of, \$4,927, “Intergovernmental Personnel Assignment (IPA) with Mn Veterans Administration for Kathy Broniarczyk.”

Marais, Karen; Felisberto Martins Ribeiro, Bruno and Panchal, Jitesh H; aeronautics and astronautics, computer science, mechanical engineering, from Stevens Institute of Technology, \$20,000, “Data Science Approaches to Prevent Failures in Systems Engineering.”

Marconnet, Amy M; mechanical engineering, from Ford Motor Company, \$37,500, “Voluntary Support Ford.”

Martin to Mishra

Martin, Craig D; Patti and Rusty Rueff Department of Visual and Performing Arts, from Indiana Arts Commission, \$5,000, "Purdue Galleries – Iac Arts Project Support."

Mason, Linda J; graduate school administration, from Purdue University Special Initiative Program, \$31,702, "Vankayala, Shanmukeswar."

Mason, Linda J; graduate school administration, from Purdue University Special Initiative Program, \$31,702, "Siddareddy, Sowmya."

Mason, Linda J; graduate school administration, from Purdue University Special Initiative Program, \$31,702, "Viswanath, Nandita."

Mason, Linda J; graduate school administration, from Purdue University Special Initiative Program, \$31,702, "Rai, Swapnil."

Mason, Linda J; graduate school administration, from Purdue University Special Initiative Program, \$31,702, "Rani, Divya."

Mason, Linda J; graduate school administration, from Purdue University Special Initiative Program, \$31,702, "Sadeque, Sabiha."

Mason, Linda J; graduate school administration, from Purdue University Special Initiative Program, \$31,702, "Parolia, Ayush."

Mason, Linda J; graduate school administration, from Purdue University Special Initiative Program, \$31,702, "Gupta, Mohit."

Mason, Linda J; graduate school administration, from Purdue University Special Initiative Program, \$31,702, "Mall, Kshitij."

Matson, Eric T; computer and information technology, from Dongguk University, \$9,000, "Dongguk Research Extension."

Mattes, Richard D; nutrition science, from Chappelle, \$21,229, "Cervi, Meredith."

Mattes, Richard D; nutrition science, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, \$89,759, "Interdisciplinary Training in Signals Controlling Ingestion and Obesity."

Mattoo, Seema; biological sciences, from Purdue University, \$30,000, "Role of Fic Proteins in Cellular Signaling."

Mattoo, Seema; biological sciences, from PHS-NIH National Institute of General Medical Science, \$301,521, "Role of Fic Proteins in Cellular Signaling."

Mauer, Lisa J; food sciences, from International Association for Food Protection, \$2,000, "Multi-Sponsored Gift."

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, Lia A; food sciences, botany and plant pathology, electrical and computer engineering, mechanical engineering, basic medical sciences, materials engineering, from Agricultural Research Service, \$987,350, "Advanced Development of Innovative Technologies and Systematic Approaches to Foodborne Hazard Detection and Characterization for Improving Food Safety."

Mayes, Amanda S; Purdue Convocations, from Arts Midwest, \$2,625, "The Seldoms."

Mayes, Amanda S; Purdue Convocations, from New England Foundation for the Arts, \$2,000, "Power Goes."

Maynard, Elizabeth T; horticulture and landscape architecture, from HM Clause Inc, \$900, "Research for 1995 Vegetable Variety Trial Program."

Maynard, Elizabeth T; horticulture and landscape architecture, from Johnny's Selected Seeds, \$800, "Research for 1995 Vegetable Variety Trial Program."

McCann, Maureen C; Huetteman, Carl A; Mosier, Nathan S; Agrawal, Rakesh; Kenttamaa, Hilkka I; Carpita, Nicholas C; Chapple, Clint C S; Delgass, W Nicholas; Meilan, Richard and Ribeiro, Fabio H; biological sciences, agricultural and biological engineering, chemical engineering, chemistry, botany and plant pathology, biochemistry, forestry and natural resources, from U.S. Department of Energy, \$2,114,750, "Center for Direct Catalytic Conversion of Biomass to Biofuels (C3Bio)."

McCann, Maureen C; Dietz, James Eric and Sharma, Pankaj; biological sciences, computer and information technology, comparative pathobiology, from Office of Naval Research, \$199,970, "Power and Energy: a Science, Technology, Engineering and Mathematics (STEM) Program to Inspire Leadership in S and T for the Workforce of the Future Fleet." (a Discovery Park award – the Energy Center)

McLuckey, Scott A; chemistry, from PHS-NIH National Institute of General Medical Science, \$28,429, "Gas-Phase Bio-Conjugation in the Tandem Mass Spectrometry of Peptides, Proteins, and Protein Complexes."

McMillan, Sara K; agricultural and biological engineering, from Purdue University F N Andrews Fellowship, \$29,176, "Johnson, Alexander."

McMillan, Sara K; agricultural and biological engineering, from George Washington Carver Fellowship, \$22,387, "Scarlette, Rachel."

Melosh, Henry J; physics and astronomy, from National Aeronautics and Space Administration, \$218,222, "Hazards from Intense Meteoroid Fireballs."

Melosh, Henry J and Freed, Andrew M; physics and astronomy, earth, atmospheric, and planetary science, from National Aeronautics and Space Administration, \$159,555, "An Incremental Ice-Wedging Model for Europas Ridges."

Miller, Jeremy K; mathematics, from National Science Foundation, \$167,376, "Homological Stability and its Generalizations."

Minton, David A; earth, atmospheric, and planetary science, from National Aeronautics and Space Administration, \$45,000, "Modeling the Formation of Phobos and Deimos from a Debris Disk with Impacts."

Minton, David A; earth, atmospheric, and planetary science, from National Aeronautics and Space Administration, \$45,000, "Modeling the Evolution of Lunar Impact Glasses – Nessf Fellowship for Ya-Huei Huang."

Minton, David A and Melosh, Henry J; earth, atmospheric, and planetary science, physics and astronomy, from National Aeronautics and Space Administration, \$179,574, "Constraining Lunar Crater Saturation by Modeling Gravity Recovery and Interior Lab (GRAIL) Porosity."

Minton, David A; earth, atmospheric, and planetary science, from National Aeronautics and Space Administration, \$30,000, "Modeling the Formation of Phobos and Deimos from a Debris Disk with Impacts."

Mishra, Dharmendra K; food sciences, from Edwards, Michael A, \$100, "Multi-Sponsored Gift."

Mishra, Dharmendra K; food sciences, from Purdue Doctoral Program, \$31,904, "Chapa, James."

Mitchell to Rajwa

Mitchell, Cary A; horticulture and landscape architecture, from Kennedy Space Center, \$15,000, "Pick-and-Eat Salad-Crop Productivity, Nutritional Value, and Acceptability to Supplement the ISS Food System."

Mohammadi, Mohsen; agronomy, from American Malting Barley Association, Inc., \$2,000, "Winter and Spring Malt Barley Assessment to Support the Growing Midwest Brewing and Malting Industry."

Mohammed, Sulma I; comparative pathobiology, from Purdue Doctoral Program, \$31,399, "Torres Liquis, Odalys."

Molnar, Denes; physics and astronomy, from U.S. Department of Energy, \$67,519, "Transition from Dissipative Fluid Dynamics to Particles in Heavy Ion Collisions."

Mosier, Nathan S and Tao, Bernard Y; agricultural and biological engineering, from Indiana Soybean Alliance, \$55,895, "Soy-Based Wood Sealant Testing and Development."

Mosier, Nathan S; agricultural and biological engineering, from Indiana Soybean Alliance, \$117,931, "Student Soybean Innovation Contest."

Mudawar, Issam; mechanical engineering, from National Aeronautics and Space Administration, \$85,000, "Flow Boiling and Condensation Experiment (FBCE)."

Mukherjee, Partha P; mechanical engineering, from Office of Naval Research, \$3,979, "Mesoscale Interactions in Lithium Plating/Dendrite Formation."

Nagy, Zoltan; chemical engineering, from Purdue Doctoral Program, \$21,229, "Mackey, Jaron."

Nakatsu, Cindy H; agronomy, from U.S. Geological Survey, \$32,500, "Genomic Analysis of Microbial Communities in Degraded Ecosystems."

Nalam, Vamsi J; biology, from Indiana Academy of Science, \$1,402, "Glycine Max Phytoalexin Deficient 4 and Alternatively Spliced Variant Subcellular Localization in Transformed Protoplasts."

Nauman, Eric A; mechanical engineering, from Purdue Doctoral Program, \$31,904, "Lee, Taylor."

Nie, Linda H; health sciences, from Harvard School of Public Health, \$51,700, "Early and Late-Life Metal Exposures and Alzheimers Disease; Amendment 3."

Niser, John C; hospitality and tourism management, from University of Technology Tralee, \$500, "HSD Consortium."

Niyogi, Devdutta S; agronomy, from Winifred B. Bilsland Endowment, \$10,729, "Liu, Xing."

Nnanna, Agbai Agwu; mechanical and civil engineering, from America Society of Heating, Refrigerating and Air Conditioning Engineers Inc, \$5,000, "Design of Thermoelectric Cooler in Air Duct System."

Oliver, Haley F; food sciences, from Multi-Sponsored Industrials, \$29,160, "Oliver – Multi-Sponsored Gift."

Peeta, Srinivas; civil engineering, from National Science Foundation, \$219,497, "Collaborative Research: Statistical Learning, Driving Simulator-Based Modeling, and Computationally Tractable Dynamic Traffic Assignment."

Pekny, Joseph F; chemical engineering, from United States Military Academy, \$100,000, "Developing Best Practices in Civilian Military Educational Partnerships: an Environmental Law Case Study."

Peroulis, Dimitrios; electrical and computer engineering, from Harris Corporation, \$75,000, "Center for Electronic Defense Systems (CEDs) Consortium."

Peroulis, Dimitrios; electrical and computer engineering, from BAE Systems Advanced Technologies, Inc., \$150,000, "Fundamental Research (FSSR Program); Modification 6; Grant 108127." (a Discovery Park award – Birck Nanotechnology Center)

Pourpoint, Timothee L; Ramachandran, P Veeraraghavan and Bane, Sally P M; aeronautics and astronautics, chemistry, from Missile Defense Agency, \$110,932, "Development and Characterization of Hypergolic Propellents for MDA Applications; Modification 8; [Grant 107631]."

Povolotskyi, Mykhailo; electrical and computer engineering, from National Science Foundation, \$144,969, "E2CDA Type I: Collaborative Research: a Fast 70mv Transistor Technology for Ultra-Low-Energy Computing." (a Discovery Park award – Network for Computational Nanotechnology)

Powley, Terry L; Irazoqui, Pedro; Liu, Zhongming; Phillips, Robert J; Rajwa, Bartlomiej P; Rickus, Jenna L; Robinson, Joseph Paul and Ward, Matthew Peter; psychological science, electrical and computer engineering, basic medical sciences, agricultural and biological engineering, biomedical engineering, from PHS-NIH Office of the Director, \$2,266,594, "Mapping Stomach Autonomic Circuitry and Function for Neuromodulation of Gastric Disorders."

Prabhakar, Sunil K; computer science, from Air Force Research Laboratory, \$299,935, "Quelea: Verified Compilation of Weakly-Consistent Distributed Systems; Amendment 1; Grant 108697."

Prabhakar, Sunil K; computer science, from Air Force Research Laboratory, \$609,460, "Quelea: Verified Compilation of Weakly-Consistent Distributed Systems."

Prakash, Arun; civil engineering, from David M. Knox Endowment, \$21,229, "Vicksman, Andi."

Purcell, Lindsey A; forestry and natural resources, from Duke Energy Foundation, \$7,500, "Voluntary Support – Purcell."

Pyrak-Nolte, Laura J; physics and astronomy, from Lawrence Berkeley National Laboratory, \$140,000, "Center for Nanoscale Controls on Geologic CO₂ (NCGC)."

Qiao, Li; aeronautics and astronautics, from Winifred B. Bilsland Endowment, \$15,926, "Jain, Shourya."

Qu, Ming; civil engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, "Yang, Zhiyao."

Radcliffe, John Scott; animal sciences, from Agricultural Research Service, \$22,239, "Evaluating the Effects of Climate Change on Livestock Physiology and Well-Being."

Rajwa, Bartlomiej P; basic medical sciences, from J M Malone and Son Inc, \$4,962, "Cytometry Analysis of Triploidy in Ctenopharyngodon Idella Embryos." (a Discovery Park award – Bindley Bioscience Center)

Raman to Schultheiss

Raman, Arvind; Bajaj, Anil Kumar and Reifenberger, Ronald G; mechanical engineering, physics and astronomy, from National Science Foundation, \$542,406, "Grant Opportunities for Academic Liaison with Industry (GOALI): Multi-Frequency Dynamics in the Atomic Force Microscope."

Ramanathan, Shriram; materials engineering, from Physical Sciences, Inc., \$50,000, "Switchable Infrared Filter."

Ramanathan, Shriram; materials engineering, from Army Research Office, \$30,871, "Research Area 4: Electronics: Mott Transistor: Fundamental Studies and Device Operation Mechanisms."

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

Ratliff, Timothy L; Executive Vice President for Research and Partnerships, from PHS-NIH National Cancer Institute, \$115,310, "Cancer Center Support Grant (Core)."

Rayz, Vitaliy L; biomedical engineering, from PHS-NIH National Heart, Lung and Blood Institute, \$176,365, "Image-Based Numerical Predictions of Hemodynamics Following Vascular Intervention."

Ribeiro, Bruno; chemical engineering, from Raytheon, \$43,220, "Discovering Network Processes in Time-Evolving Networks."

Ribeiro, Fabio H and Gounder, Rajamani P; chemical engineering, from Cummins, Inc., \$140,000, "Ammonia Selective Catalytic Reduction (SCR) on Cu Catalysts."

Richert, Brian T and Radcliffe, John Scott; animal sciences, from Elanco Animal Health, \$43,536, "Efficacy Study to Assess the Effect of Hemicell Htm 1.5x, Appellstm, and the Combination of, in Corn-Soybean Meal Diets Containing Dry Distillers Grains with Solubles (DDGS) on Growth Performance of Nursery Pigs."

Richmond, Douglas Scott; entomology, from Agricultural Research Service, \$5,000, "Biological Control of Black Cutworm in Turf with Baculovirus."

Ridgway, Kenneth D; earth, atmospheric, and planetary science, from National Science Foundation, \$5,115, "Collaborative Research: Investigating Controls on Temporal-Spatial Heterogeneous Deformation Along a Transpressive Strike-Slip Fault System: the Eastern Denali Fault Corner."

Riley, Donna M; engineering education, from George Washington Carver Fellowship, \$26,987, "Lewter, Harriet."

Riley, Donna M; engineering education, from George Washington Carver Fellowship, \$22,386, "Dandridge, Tikyna."

Robicheaux, Francis J; physics and astronomy, from National Science Foundation, \$44,944, "Interactions with and Between Rydberg Atoms."

Rogat, Toni K; educational studies, from Spencer Foundation, \$47,655, "Students Perceptions of Motivational Practices and Norms within Inquiry-Based Science Curricular Contexts, with Implications for Sustained Motivation and Engagement."

Rollock, David; psychological science, from Purdue University F N Andrews Fellowship, \$18,528, "Rague, Lisa."

Rollock, David; psychological science, from Lynn Interdisciplinary Graduate Fellowship, \$18,874, "Kon, Maria."

Rollock, David; psychological science, from Purdue University Special Initiative Program, \$20,479, "Mallory, Drew."

Rompf, Tiark; computer science, from U.S. Department of Energy, \$150,000, "Program Generators for Exascale and Beyond."

Rossmann, Michael G; biological sciences, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$481,534, "Structure and Function of Icosahedral Viruses."

Rossmann, Michael G; biological sciences, from National Science Foundation, \$408,550, "X-Ray Determinations of Proteins and Viruses."

Roy, Kaushik; Datta, Supriyo and Raghunathan, Anand; electrical and computer engineering, from University of Minnesota, \$40,000, "Center for Spintronic Materials, Interfaces and Novel Architectures – C-Spin."

Roy, Kaushik; electrical and computer engineering, from Purdue University F N Andrews Fellowship, \$31,904, "Agrawal, Amogh."

Ruan, Xiulin; mechanical engineering, from University of California-Merced, \$17,232, "Purdue-UCM Collaboration for Simulation of Nanoscale Contacts."

Samarapungavan, Ala; Clase, Kari L; Gardner, Stephanie M; Pelaez, Nancy and Rogat, Aaron D; educational studies, technology, leadership, and innovation, biological sciences, from National Science Foundation, \$786,089, "Exploring Biological Evidence (EBE): Helping Students Understand the Richness and Complexity of Evidentiary Constructs in Biology."

Sangid, Michael D and Comer, Mary L; aeronautics and astronautics, electrical and computer engineering, from National Science Foundation, \$446,206, "Investigation of Heterogeneous Deformation for Discontinuous Fiber Composites through Combined Experiments and Modeling."

Sangid, Michael D; aeronautics and astronautics, from Honeywell Inc., \$335,611, "Rapid Response Research (RAPID) Low Cost Additive Manufacturing, Optional Task 12 Next Generation ICME."

Sanmiguel, Sandra F; Burgess, Wilella Daniels; Parker, Loran Carleton and Cipriani, Kauline S; veterinary medicine, education-administration, from PHS-NIH Office of the Director, \$23,660, "This is How We Role: Inspiring Future Researchers through Veterinary Medicine."

Santerre, Charles R; nutrition science, from Purdue Doctoral Program, \$21,229, "Kiper, Keturah."

Schmitt, Sara A and Purpura, David J; human development and family studies, from Oregon State University, \$30,439, "Red Light, Purple Light! Developing a Self-Regulation Intervention for Children at-Risk for School Difficulty, Amendment 2; (Grant 107841)."

Schneider, Steven P; aeronautics and astronautics, from Air Force Office of Scientific Research, \$80,000, "Towards a Process for Calibrating 1-Mhz Pressure-Fluctuation Sensors with Small Pressure Steps in a Shock Tube."

Schneider, Steven P; aeronautics and astronautics, from Raytheon Systems Company, \$36,705, "Raytheon Experiments with a Forward-Facing Cavity in the Mach-6 Quiet Tunnel."

Schultheiss, Nathan C and Holloway, Eric A; chemical engineering, engineering administration and engineering experiment station, from Pioneer Oil Company, \$97,490, "Funding of EOR Lab Manager, Dr. Rituraj Borgohain."

Scott to Tarko

Scott, David E; Office of the Indiana State Chemist, from Environmental Protection Agency, \$146,413, "FY 2017 EPA Pesticide Cooperative Agreement."

Scott-Moncrieff, Joanna C R; veterinary clinical sciences, from N Central Veterinary Emergency Center, \$5,097, "ECC Residency Training Program."

Sepulveda, Maria Soledad; forestry and natural resources, from Showalter Trust, \$5,000, "2015 Showalter Scholar Awards."

Sepulveda, Maria Soledad; Hoverman, Jason T and Lee, Linda S; forestry and natural resources, agronomy, from Department of the Army, \$100,000, "Development of Amphibian Poly- and Perfluoro-alkyl Substances Toxicity Reference Values for Use in Ecological Risk Assessment at Aqueous Film Forming Foam Sites; Modification3, Grant 108326."

Shah, Kavita; Center for Cancer Research, from National Science Foundation, \$500,000, "A Bio-Orthogonal Approach for Identifying Direct Kinase Substrates and Their Phosphorylation Sites."

Shakouri, Ali; electrical and computer engineering, from Landauer Inc., \$35,000, "Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART)."

Shan, Jie and Habib, Ayman F; civil engineering, from Army Research Office, \$401,887, "Scene Modeling through Multi-Modal Geospatial Data Fusion."

Shepson, Paul B; chemistry, from Environmental Defense Fund, \$20,000, "Power-Plant Methane Emissions Study."

Shih, Tom I-P; aeronautics and astronautics, from Purdue Doctoral Program, \$31,904, "McClain, Monique."

Shih, Tom I-P; aeronautics and astronautics, from Ames Laboratory, \$100,000, "Computational Analysis of Advanced Cooling Strategies for High-Efficiency and Long-Service Life Turbines; Amendment 24; [Grant 104396]."

Shih, Tom I-P; aeronautics and astronautics, from GS Bridge Assistantships, \$20,399, "Agrawal, Rachana."

Simpson, Garth J; chemistry, from Merck Sharp and Dohme Corp, \$53,000, "Triboluminescence: Fast Detection of Crystallinity in Amorphous Solid Dispersions."

Siskind, Jeffrey M; Malaia, Evguenia A and Wilbur, Ronnie B; electrical and computer engineering, interdisciplinary studies, speech, language and hearing sciences, from National Science Foundation, \$1,000,000, "NCS-FO: Neuroimaging to Advance Computer Vision, NLP, and AI."

Sivasankar, Preeti Mahalakshmi; Durkes, Abigail C; Calve, Sarah and Liu, Zhongming; speech, language and hearing sciences, comparative pathobiology, biomedical engineering, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$314,985, "Pathobiology and Biomechanics of Vocal Fold Dehydration."

Slamovich, Elliott B; materials engineering, from U.S. Department of Education, \$148,278, "Processing of Micro- and Nanostructured Materials 2015 Graduate Assistance in Areas of National Need (GAANN)."

Snow, Lowell D; Technical Assistance Program, from National Institute of Standards and Technology, \$2,758,688, "FFO 2014-NIST-01, Award Competition for Indiana Hollings NIST MEP Center YR2 Continuation; Amendment 4."

Snyder, Margie E; pharmacy practice, from Indiana University, \$1,000, "Bench Fees Impr Program Matthew Hollowel."

Solomon, Kevin V; agricultural and biological engineering, from Pioneer Oil Company, \$55,607, "Microbial Enhanced Oil Recovery via in Situ Activation of Native Microbes with Custom Nutrient Formulations."

Solorio, Luis; biomedical engineering, from Ross Graduate Fellowship-Assistantship, \$30,389, "Hopkins, Kelsey."

Solorio, Luis; biomedical engineering, from Purdue Doctoral Program, \$29,526, "Hakim, Mazin."

Son, Steven F; mechanical engineering, from National Aeronautics and Space Administration, \$74,000, "High-Frequency Surface and Near-Surface Temperature Measurements of Burning Solids – Fellowship for Westphal."

Son, Steven F; mechanical engineering, from University of Notre Dame, \$257,713, "Shock Wave Processing of Advanced Reactive Materials Experiments; Modification7 [Grant 106828]."

Springer, John A and Dark, Melissa Jane; computer and information technology, from National Security Agency, \$832,465, "Insure 3.0: Insuring the Effectiveness of "Tomorrow's Cybersecurity Workforce Today."

Stauffer, Cynthia V; biological sciences, from University of Notre Dame, \$142,596, "Determination of Structure, Dynamics and Energetics of Enzyme Reactions."

Stewart, Kara R; animal sciences, from Cook Research Incorporated, \$19,833, "Non-GLP Evaluation of Bioequivalence of Fenbendazole."

Sudhoff, Scott D; electrical and computer engineering, from National Renewable Energy Laboratory, \$33,333, "SuNLaMP AMPVI: Develop Magnetics Design Optimization Tool and Design and Construct Optimized Power Magnetics; Modification 8; Grant 108167."

Sullivan, John P; aeronautics and astronautics, from Brigham Young University, \$2,500, "Development and Delivery of Aerospace Capstone Project Q4 2013-Q4 2016."

Sundaram, Shreyas; Bagchi, Saurabh and Cason, Timothy N; electrical and computer engineering, economics, from National Science Foundation, \$476,037, "SaTC: CORE: Small: the Impacts of Human Decision-Making on Security and Robustness of Interdependent Systems."

Talley, Cody R; field extension educators, from Franklin Cty Community Foundation, Inc, \$300, "Dining with Diabetes."

Tao, Weiguo Andy and Zhang, Dabao; biochemistry, statistics, from PHS-NIH National Institute of General Medical Science, \$301,502, "A Proteomic Platform to Identify and Validate Biomarkers in Metabolic Syndrome and Coronary Artery Disease."

Tarko, Andrew P; Romero, Mario A and Thomaz, Jose E; civil engineering, from Indiana Department of Transportation, \$128,240, "SPR-4217: Speed Management in Small Cities and Towns / Guidelines for Indiana."

Tarko, Andrew P; Romero, Mario A and Thomaz, Jose E; civil engineering, from Indiana Department of Transportation, \$118,894, "SPR-4219: SNIP Light."

Tarko, Andrew P and Romero, Mario A; civil engineering, from Indiana Department of Transportation, \$67,568, "SPR-4216: Statistical Analysis of Safety Improvements and Integration into Project Design Process."

Tawarmalani to Wirth

Tawarmalani, Mohit; management, from National Science Foundation, \$396,424, "Collaborative Research: New Relaxations for Optimization Problems with Cardinality Constraints."

Tay, Sien Chieh; psychological science, from University of Pennsylvania, \$123,270, "The Humanities and Human Flourishing: a Multi-Disciplinary Collaboration for Understanding, Cultivating, and Assessing Well-Being."

Taylor, Lynne S; Galinsky, Raymond E and Simpson, Garth J; industrial and physical pharmacy, chemistry, from PHS-FDA Food and Drug Administration, \$129,340, "Formulation, Processing and Performance Interrelationships for Amorphous Solid Dispersions."

Thompson, Corey M; chemistry, from Oak Ridge Associated Universities, \$5,000, "ORAU Ralph E. Powe Junior Faculty Enhancement Awards."

Tillman, Margaret M; history, from American Council of Learned Societies, \$50,000, "Tested: Cultivating Talent and China's Standardized Exams, 1905-1977."

Tobias, Justin L; economics, from Ross Graduate Fellowship-Assistantship, \$15,243, "Kebede, Daniel."

Tonnsen, Bridgette L; psychological science, from University of South Carolina, \$17,583, "Emergence and Stability of Autism in Fragile X Syndrome."

Toppe, Elizabeth M; industrial and physical pharmacy, from Hoffmann-La Roche Inc., \$50,000, "Solid-State Hydrogen/Deuterium Exchange with Mass Spectrometric Analysis (Sshdx-MS) for a Lyophilized Monoclonal Antibody (Mab)."

Towns, Marcy H; chemistry, from National Science Foundation, \$9,052, "Investigating Student Understanding of Chemical Kinetics."

Tu, Manghui and Yang, Shuhui; computer information technology and graphics, mathematics, statistics and computer science, from National Security Agency, \$90,499, "A Core Cybersecurity Course Development: Secure Programming in an Immersive Learning Environment; Modification 1; Grant 108895."

Tu, Manghui; Jin, Ge; Kim, Tae-Hoon and Trekles, Anastasia M; computer information technology and graphics, education, from National Science Foundation, \$482,926, "Expanding the Pipeline: Immersive Learning Curriculum Development for High School Cybersecurity Education."

Tung, Wen-Wen; earth, atmospheric, and planetary science, from Ross Graduate Fellowship-Assistantship, \$29,526, "Zhang, Chen."

Tyner, Wallace E; agricultural economics, from Antares Group Inc, \$86,448, "Enabling Sustainable Landscape Design for Continual Improvement of Operating Bioenergy Supply Systems; Modification 1; Grant 108355."

Tyner, Wallace E and Taheripour, Farzad; agricultural economics, from Federal Aviation Administration, \$400,000, "Techno-Economic and Life-Cycle Analysis of Alternative Aviation Biofuels Supply Chains."

Uyeda, Christopher H; chemistry, from PHS-NIH National Institute of General Medical Science, \$354,071, "Transition Metal Catalyzed Reductive Carbene Transfer Reactions."

Vacca, Andrea; agricultural and biological engineering, from National Science Foundation, \$4,592, "Novel Concept for Variable Delivery Flow Units for Fluid Power Applications."

Vacca, Andrea; agricultural and biological engineering, from Magna Powertrain of America Inc, \$178,877, "Design Analysis of Gerotor Pump for High Pressure Applications."

Varala, Kranthi K; horticulture and landscape architecture, from New York University, \$19,209, "Evonet: A Phylogenomic and Systems Biology Approach to Identify Genes Underlying Plant Survival in Marginal, Low-Nitrogen Soils."

Velasquez, Juan D and Nauman, Eric A; engineering administration and engineering experiment station, from Colfuturo, \$49,998, "Latin American Technical, Research and Administration Leaders Program (Lateral)."

Voyles, Richard M; engineering technology, from National Science Foundation, \$65,000, "Collaborative Research: I/UCRC for Robots and Sensors for the Human Well-Being."

Voyles, Richard M and Min, Byung-Cheol; engineering technology, computer and information technology, from National Science Foundation, \$14,980, "Workshop to Explore US/Korean Collaboration in Human-Friendly Co-Robotic Technologies."

Vyn, Tony J; agronomy, from Valent Biosciences Corporation, \$10,000, "2017 Soybean Field Trial."

Wang, Changyou; mathematics, from Simons Foundation, \$42,000, "Hydrodynamics of Nematic Liquid Crystals, L-Infinity Variational Problems."

Weake, Vikki Marie; biochemistry, from PHS-NIH National Eye Institute, \$38,166, "Epigenetic Regulation of Gene Expression in the Aging Eye."

Weatherman, Kara Duncan; pharmacy practice, from Cardinal Health, \$10,000, "2017 Cardinal Health Nuclear Pharmacy Scholarship."

Weatherman, Kara Duncan; pharmacy practice, from Indiana University School of Medicine, \$2,600, "Teaching Nuclear Medicine Technology Course at IU (PO 2031088)."

Weaver, Connie M; Cooper, Bruce R; Ferruzzi, Mario; McCabe, George P and Janle, Elsa M; nutrition science, biological sciences, statistics, from PHS-NIH National Center for Complementary and Alternative Medicine, \$741,460, "Berries and Bones."

Weaver, Connie M and Ferruzzi, Mario; food sciences, from Agricultural Research Service, \$16,000, "Adaptation in Polyphenol Bioavailability and Anti-Inflammatory Activity During Long Term Exposure to Polyphenol-Rich Fruits and Beverages in Lean and Obese Individuals."

Weinstein, Dana; electrical and computer engineering, from Intel Corporation, \$300,000, "Intel Labs: Gan on Linbo3 Programmable Radio Frequency (RF) Filters; Amendment 2; (Grant 209422)."

Wells, Ellen M; Harris, Jason T; Park, Jae Hong; Rosenthal, Frank S and Zheng, Wei; health sciences, from PHS-CDC National Institute of Occupational Safety and Health, \$150,000, "Occupational Safety and Health Training Grant."

Welp-Smith, Lisa R; earth, atmospheric, and planetary science, from Purdue Doctoral Program, \$33,419, "Meyer, Alexandra."

Widhalm, Joshua R; horticulture and landscape architecture, from EnP Investments, \$7,970, "EnP Investments."

Wirth, Mary J; chemistry, from Merck Sharp and Dohme Corp, \$50,000, "Development of Mass Spectrometry Compatible Hydrophobic Interaction Chromatography for Protein Analysis, and Evaluation of Nonporous Sub-Micron Particle Chromatography Column."

Xin to Zwier

Xin, Yan Ping; Kastberg, Signe E and Chen, Yingjie; educational studies, curriculum and instruction, computer graphics technology, from National Science Foundation, \$112,659, “Conceptual Model-Based Problem Solving (COMPS): A Response to Intervention Program.”

Xu, Xianfan; mechanical engineering, from Advancement Storage Technology Consortium, \$70,000, “Characterization of Optical Size and Efficiency of Near-Field Transducer Using Scattering Scanning Near-Field Microscopy.”

Yeo, Yoon; industrial and physical pharmacy, from Showalter Trust, \$5,000, “2014 Showalter Awards.”

Yeo, Yoon; Elzey, Bennett D and Galinsky, Raymond E; industrial and physical pharmacy, comparative pathobiology, from PHS-NIH National Institute of Biomedical Imaging and Bioengineering, \$27,900, “Environmentally-Adaptive Nanoparticles with Focal Irradiation for Cancer Therapy.”

Yih, Yuehwern; industrial engineering, from Lima Links, \$9,897, “Rural Agriculture Supply Chain Analysis in Zambia.”

Young, Bryan G; botany and plant pathology, from Ross Graduate Fellowship-Assistantship, \$29,526, “Steppig, Nicholas.”

Youngblood, Jeffrey P; materials engineering, from US Endowment Forestry Communities, \$331,000, “Scaled Continuous Production of High Strength and Toughness Cellulose Nanofibril Laminates for Structural Applications.”

Yu, Jae Hoon David; civil engineering, from Royal Melbourne Institute of Technology, \$6,871, “Operational Paradigm for the Engineering Resilience of the Interdependent Infrastructure Systems.”

Zaspel, Jennifer M and Nearns, Eugenio H; entomology, from National Science Foundation, \$148,382, “CSBR: Natural History: Rehabilitation and Revitalization of the Purdue Entomological Research Collection.”

Zavattieri, Pablo D; civil engineering, from Purdue Doctoral Program, \$31,904, “Hector, Kristiaan.”

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

Zhang, Haiyan H; engineering technology, from American Axle and Manufacturing, Inc, \$50,000, “Center for Technology Development Consortium (CTD).”

Zhang, Jiansong; construction management technology, from National Science Foundation, \$138,008, “EAGER: Collaborative Research: a Science-Based Exploration of Invariant Signatures of Architecture, Engineering, and Construction Objects to Enable Interoperability of BIM.”

Zhang, Min; Fleet, James C and Liu, Wanqing; statistics, nutrition science, medicinal chemistry and molecular pharmacology, from PHS-NIH National Institute of Biomedical Imaging and Bioengineering, \$157,622, “Big Data Training for Translational Omics Research.”

Zhang, Xiangyu and Xu, Dongyan; computer science, from Office of Naval Research, \$9,206, “Learn-to-Reason: A Probabilistic Binary Analysis Infrastructure and its Application in Binary Reduction.”

Zhang, Xinghang and Wang, Haiyan; materials engineering, from Office of Naval Research, \$276,738, “Acquisition of a Suite of 3-D EDX Tomography and in Situ Heating and Straining Tem Holders to Probe the Response of Nanomaterials.”

Zhang, Xinghang and El-Azab, Anter A; materials engineering, from National Science Foundation, \$539,337, “Mechanics and Kinetics of Void Swelling in Irradiated Nanoporous Materials.”

Zhang, Zhong-Yin; medicinal chemistry and molecular pharmacology, from Purdue Doctoral Program, \$29,176, “Hewitt, Chad.”

Zheng, Wei; health sciences, from Yale University, \$101,746, “Environmental Epidemiology of Essential Tremor; Amendment 1; Grant 108330.”

Zheng, Wei and Nie, Linda H; health sciences, from PHS-NIH National Institute of Environment Health Science, \$382,887, “Lead Exposure and Beta-Amyloid Transport by Brain Barriers.”

Zhou, Chenn Qian; Center for Innovation through Visualization and Simulation, from U.S. Steel Corporation, \$134,667, “USS Great Lakes Works Blast Furnace Improvement.”

Zhou, Qi; industrial and physical pharmacy, from PHS-NIH National Institute of Allergy and Infectious Diseases, \$650,259, “Combating Deadly Gram-Negative Lung Infections: An Inhalation and Systems Approach.”

Zhu, Fengqing and Allebach, Jan P; electrical and computer engineering, from Dzine Steps, \$20,000, “Autonomous Image Analysis Tools for Visualizing New Finishes in Interior/Exterior Spaces, Phase 2.”

Zhu, Yu Michael; statistics, from Ohio State University, \$12,303, “Media Literacy Intervention for Indoor Tanning Prevention.”

Zhuang, Qianlai; agronomy, from U.S. Geological Survey, \$65,000, “Quantifying Alaskan Landscape Changes and Their Impacts on Greenhouse Gas Emissions of Carbon Dioxide and Methane.”

Ziaie, Babak and Rietdyk, Shirley; electrical and computer engineering, health and kinesiology, from Smartgait, \$24,242, “A Wearable Video-Based Gait and Balance Assessment Technology.” (a Discovery Park award – Birck Nanotechnology Center)

Zwier, Timothy S; chemistry, from DOE-ER-Basic Energy Sciences Chemistry, \$12,212, “Isomer-Specific Spectroscopy of Aromatic Fuels and Their Radical Intermediates.” ■

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