

**Cornell University, Office of Sponsored Programs
Awards Received in June 2022**

Principal Investigator	Department	Sponsor	Project Title	OSP#	Amount
Abbaspourrad, Alireza	CALS Food Science	NSF -> NSF Directorate for Technology, Innovation and Partnerships	MICROENCAPSULATION TECHNIQUE WITH NATURE DERIVED BIODEGRADABLE POLYMER FOR ENVIRONMENTAL PROTECTION	143768	\$50,000
Afridi, Khurram	Electrical & Computer Engineering	United States Department of Energy	FIELD-FOCUSED LOAD-LEVELLED DYNAMIC WIRELESS CHARGING SYSTEM FOR ELECTRIC VEHICLES	141220	\$1,425,000
Agrawal, Anurag	CALS Ecology & Evolutionary Biology	NSF -> NSF Directorate for Biological Sciences	ESCALATION IN COEVOLUTION: CHARACTERIZATION OF NOVEL PLANT TOXINS, HOW SPECIALIST HERBIVORES COPE, AND TESTS OF PHYLOGENETIC INTENSIFICATION IN PLANT DEFENSE POTENCY	141392	\$657,747
Ando, Nozomi	Chemistry and Chemical Biology	National Science Foundation (Through: University of Rochester)	COLLABORATIVE RESEARCH: ENGINEERING HYPERSTABLE ENZYMES VIA COMPUTATIONALLY GUIDED PROTEIN STAPLING	89293	\$4,145
Apsel, Alyssa	Electrical & Computer Engineering	DOD -> DOD United States Army (Through: GIRD Systems Inc)	HFIM	144547	\$155,000
August, Avery	Microbiology and Immunology	HHS -> PHS -> NIH -> NIH National Institute of Allergy and Infectious Diseases	REGULATION OF IL10 PRODUCTION IN CD8+ T CELLS DURING FLU INFECTION BY TYROSINE KINASE ITK	85698	\$79,384
August, Avery	Microbiology and Immunology	HHS -> PHS -> NIH -> NIH National Institute of General Medical Sciences	CORNELL INITIATIVE FOR MAXIMIZING STUDENT DEVELOPMENT	82670	\$47,133
Barstow, Buz	CALS Biological & Environmental Engr	Burroughs Wellcome Fund	EVOLVING THE LIMITS OF METABOLISM AND IN VIVO CATALYSIS	85685	\$8,928
Bassuk, Nina	CALS School of Integrative Plant Science	Tree Research and Education Endowment Fund	PRODUCING FIBROUS-ROOTED HICKORIES TOWARDS COMMERCIAL PRODUCTION AND IMPROVED TRANSPLANTING	143602	\$10,000
Basu, Sumanta	Department of Statistics & Data Science	NSF -> NSF Directorate for Mathematical and Physical Sciences	COLLABORATIVE RESEARCH: LEARNING GRAPHICAL MODELS FOR NONSTATIONARY TIME SERIES	142652	\$150,000
Bornt, Charles	CALS Cornell Cooperative Extension	NYS -> New York State Department of Agriculture and Markets (Through: Icahn School Of Medicine at Mount Sinai)	IN-FIELD STUDY TO OPTIMIZE UV-TREATMENT FOR REDUCING DOWNY MILDEW, POWDERY AND ANGLED LEAF SPOT DISEASE ON CUCURBITS WITH THE ADDITION OF LEAF AGITATION	91800	\$28,966
Bunea, Florentina	Department of Statistics & Data Science	NSF -> NSF Directorate for Mathematical and Physical Sciences	COLLABORATIVE RESEARCH: STATISTICAL OPTIMAL TRANSPORT IN HIGH DIMENSIONS VIA THE SKETCHED WASSERSTEIN DISTANCE	142478	\$199,999
Butcher, Jonathan	Biomedical Engineering	Additional Ventures LLC	EXPANDED NUCLEOTIDE SEQUENCING FOR PHENOTYPIC MAPPING OF CARDIOGENIC NEIGHBORHOODS	144589	\$50,000
Centrella, Mary	CALS Cornell Cooperative Extension	Environmental Protect Agency (Through: eXtension Foundation)	PESTICIDE COMPATIBILITY PRESENTATION	142630	\$18,666
Chang, Pamela	Microbiology and Immunology	Alfred P Sloan Foundation	2022 ALFRED P. SLOAN RESEARCH FELLOWSHIP	141753	\$75,000
Cheong, Soon Hon	Clinical Sciences	USDA -> USDA National Institute of Food and Agriculture	MAXIMIZING POST-THAW SURVIVAL OF BOVINE EMBRYOS THROUGH MITIGATION OF INTRACELLULAR ICE FORMATION AND CRYOPROTECTANT TOXICITY	139926	\$500,000

Clark, Andrew	Molecular Biology and Genetics	HHS -> PHS -> National Institutes of Health (Through: Princeton University)	IMPROVED METHODS FOR INFERENCE OF GENOTYPE-SPECIFIC RESPONSE TO ENVIRONMENTAL TOXINS	88601	\$161,769
Clark, Theodore	Microbiology and Immunology	HHS -> PHS -> NIH -> NIH National Institute of General Medical Sciences	ASSET: EXPANDING AND SUSTAINING HANDS-ON SCIENCE IN K-12 CLASSROOMS USING TETRAHYMENA	136767	\$26,244
DeLisa, Matthew	Institute Biotechnology & Life Science	HHS -> PHS -> NIH -> NIH Office of the Director, National Institutes of Health	HIGH-THROUGHPUT LABEL-FREE DETECTION SYSTEM FOR BIOMOLECULAR INTERACTION ANALYSIS	140185	\$349,701
DeRosa, Eve	Human Development	HHS -> PHS -> National Institutes of Health (Through: HHS -> PHS -> NIH -> NIH National Institute on Aging)	BASAL FOREBRAIN CONNECTIONS TO THE HEART AND MIND IN HEALTHY AGING	89820	\$55,163
Dogan, Timur	Architecture	NYS -> New York State Energy Research and Development Authority (Through: Siemens Corporate Technology)	EV & DER FORECASTING & SYSTEM IMPACT IN ITHACA	141011	\$115,368
Freed, Jack	Chemistry and Chemical Biology	HHS -> PHS -> National Institutes of Health	NATIONAL BIOMEDICAL RESOURCE FOR ADVANCED ELECTRON-SPIN RESONANCE SPECTROSCOPY (ACERT)	140688	\$5,719,606
Gadikota, Greeshma	Civil & Environmental Engineering	DOD -> DOD ARMY -> US ARL -> US Army Research Office	ECP: ELUCIDATING THE STRUCTURAL EVOLUTION OF HYDROCARBON CONTAMINANTS AND WATER ON FREEZING IN HYDROPHOBIC AND HYDROPHILIC SILICEOUS NANOPORES. ENVIRONMENTAL CHEMISTRY	141215	\$360,000
Gadikota, Greeshma	Civil & Environmental Engineering	The Link Foundation	INTEGRATED CARBON-NEGATIVE BIO-HYDROGEN RECOVERY WITH INHERENT CARBON REMOVAL VIA MINERALIZATION	145396	\$68,000
Getchell, Rodman	Microbiology and Immunology	HHS -> PHS -> US Food and Drug Administration	THE SAFETY OF AQUAFLOL (50% FLORFENICOL; TYPE A MEDICATED ARTICLE) ADMINISTERED IN FEED TO MARINE FINFISH SPECIES	143304	\$204,731
Giordano, Julio	CALS Animal Science	MERCK AND CO -> MERCK ANIM HLTH -> SCR Engineers LTD	DATA FOR IMPROVING REPRODUCTIVE AND HEALTH MANAGEMENT IN DAIRY FARMS	140040	\$180,000
Gomez, Miguel	Dyson - Sponsored Activity	USDA -> USDA Animal and Plant Health Inspection Service	NCPN ECONOMICS WORKING GROUP - ECONOMIC RESEARCH 2022-2023	140825	\$225,000
Gunn, Laura	CALS School of Integrative Plant Science	NSF -> NSF Directorate for Biological Sciences	COLLABORATIVE RESEARCH: FROM PHYLOGENY TO BIOMOLECULES: A CROSS-SCALE APPROACH TO UNDERSTAND THE MAKING OF A UNIQUE CARBON-CONCENTRATING MECHANISM IN HORNWORTS	142090	\$569,270
Halpern, Joe	Computer Science	DOD -> DOD ARMY -> US ARL -> US Army Research Office	EXTENDING AND APPLYING CAUSAL MODELS	138942	\$506,485
Halpern-Leistner, Daniel	Mathematics	Alfred P Sloan Foundation	ALFRED P. SLOAN FOUNDATION 2022 RESEARCH FELLOWSHIP	141486	\$75,000
Hanrath, Tobias	Chemical & Biomolecular Engineering	NSF -> NSF Directorate for Mathematical and Physical Sciences	ESTABLISHING THE SYNTHESIS/STRUCTURE RELATIONSHIP OF MOLYBDENUM/LEAD CHALCOGENIDE QUANTUM DOT MESOCRYSTALS	141690	\$180,000
Ho, Shing Xi Jacqueline	Sociology	National Academy of Education	NAED/SPENCER DISSERTATION FELLOWSHIP: CAN EVERY SCHOOL BE A GOOD SCHOOL? UNRANKING AND ITS IMPLICATIONS FOR SCHOOL STATUS	145314	\$27,500
Hoffstaetter, Georg	Cornell Lab Accelerator Sciences & Ed	United States Department of Energy (Through: University of New Mexico)	NUMERICAL OPTIMIZATION FOR SPIN DYNAMICS IN ELECTRON (POSITRON) STORAGE RINGS	83939	\$163,094

Hoffstaetter, Georg	Cornell Lab Accelerator Sciences & Ed	United States Department of Energy (Through: Brookhaven National Lab)	BEAM-BASED ALIGNMENT OF MAGNETS IN THE ESR	144813	\$8,190
Houlton, Benjamin	CALS Ecology & Evolutionary Biology	Grantham Foundation for the Protection of the Environment	CARBON DIOXIDE REMOVAL THROUGH ENHANCED WEATHERING: A PREDICTIVE ANALYTICS APPROACH	144365	\$2,152,494
Houlton, Benjamin	CALS Ecology & Evolutionary Biology	Specialty Granules LLC	OPTIMIZING BASALT APPLICATION ACROSS SETTINGS FOR MAXIMUM ENHANCED WEATHERING EFFICACY	143954	\$155,523
Hysell, David	Earth & Atmospheric Sciences	NSF -> NSF Directorate for Geosciences	UPGRADING THE JICAMARCA RADIO OBSERVATORY	143887	\$1,265,342
Hysell, David	Earth & Atmospheric Sciences	National Science Foundation	FRONTIER RESEARCH AT THE JICAMARCA RADIO OBSERVATORY	142141	\$8,653,217
Joo, Yong	Chemical & Biomolecular Engineering	Science and Technology Inc	MESOSCALE MODELING AND OPTIMIZATION OF HYBRIDIZED MELT BLOWN AND ELECTROSPINNING PROCESS	143614	\$255,481
Ju, Wendy	JTC Research	National Science Foundation	HCC: MEDIUM: CULTURAL DIFFERENCES IN DRIVING INTERACTION	138030	\$16,000
Kaltenegger, Lisa	Center Astrophysics-Planetary Science	The Brinson Foundation	SEARCH FOR LIFE IN THE UNIVERSE	143558	\$50,000
Kato, Kengo	Department of Statistics & Data Science	NSF -> NSF Directorate for Mathematical and Physical Sciences	NEW CHALLENGES IN STATISTICAL INFERENCE WITH REGULARIZED OPTIMAL TRANSPORT	142440	\$270,000
Kingra, Mahinder	CU Press	National Endowment for the Humanities	OPEN-ACCESS EDITION OF THE WOLF KING: IBN MARDANISH AND THE CONSTRUCTION OF POWER IN AL-ANDALUS BY ABIGAIL KRASNER BALBALE	143825	\$5,500
Kourkoutis, Lena	Applied & Engineering Physics	United States Department of Energy (Through: EXPRESSLO LLC)	CRYO-EM SAMPLE HANDLING	142550	\$265,473
Krasny, Marianne	CALS Natural Resources	Environmental Protect Agency (Through: North American Association for Environmental Education)	COMMUNITY ENGAGEMENT: GUIDELINES FOR EXCELLENCE TRAINING (EE360+)	141920	\$2,100
Lavin, Elizabeth	Biomedical Sciences	American Association For Laboratory Animal Science	EVALUATING THE EFFICACY AND FEASIBILITY OF ORAL ALBENDAZOLE AND FUMAGILLIN IN THE TREATMENT OF PSEUDOLOMA NEUROPHILIA IN ADULT ZEBRAFISH (DANIO RERIO)	143155	\$6,270
Lewis, Nikole	Center Astrophysics-Planetary Science	National Aeronautics and Space Administration	FOR SUPPORT FOR TREVOR FOOTES' WORK ON THE PANDORA MISSION; NASA PANDORA MISSION / THE PANDORA SMALLSAT: MULTIWAVELENGTH CHARACTERIZATION OF EXOPLANETS AND THEIR HOST STARS	143539	\$72,751
Lodi, Andrea	JTC Research	Exxon Mobil Corporation	MACHINE LEARNING FOR LIQUEFIED NATURAL GAS (LNG)-INVENTORY ROUTING PROBLEMS (IRP)	142691	\$417,194
Lovette, Irby	CALS Lab of O - Biodiversity Sci & H.Ed	The American Ornithological Society	INVESTIGATING THE ROLE OF THE MICROBIOME IN EARLY-LIFE AVIAN IMMUNITY	145136	\$1,242
Lunine, Jonathan	Center Astrophysics-Planetary Science	National Aeronautics and Space Administration (Through: NASA -> Jet Propulsion Laboratory)	MISE CO-I SUBCONTRACT, EUROPA PROJECT	77491	\$158,688
Mabaya, Edward	CALS Global Development	Bill and Melinda Gates Foundation (Through: Development Gateway Inc)	THE TASAI-VISTA PROJECT 11/1/2020-10/31/2022	138041	\$25,271
Mattson, Neil	CALS School of Integrative Plant Science	The Fred C Gloeckner Foundation Inc	A CHLOROPHYLL FLUOROMETER FOR GREENHOUSE LIGHTING RESEARCH	144276	\$16,144

McArt, Scott	CALS Entomology	USDA -> USDA National Institute of Food and Agriculture	DISCERNING THE IMPACT OF NON-NATIVE FUNGAL ASSOCIATES (ASCOSPHAERA SPP.) ON MANAGED POLLINATOR HEALTH AND DECLINE OF NATIVE MASON BEES	140362	\$209,633
McDaniel, Carolyn	Clinical Sciences	Equilibrate Inc	PARTNERSHIP PROPOSAL-ROUTINE PRODUCT TESTING AGREEMENT	143482	\$1,978
McMahon, Peter	Applied & Engineering Physics	Alfred P Sloan Foundation	2022 ALFRED P. SLOAN RESEARCH FELLOWSHIP	144034	\$75,000
Mehta, Saurabh	Nutritional Sciences	Global Alliance for Improved Nutrition	REVIEW OF EFFICACY, EFFECTIVENESS AND IMPACT OF BIOFORTIFIED FOODS AND FOOD PRODUCTS (GAIN)	138668	\$29,698
Miller, William	CALS School of Integrative Plant Science	The Fred C Gloeckner Foundation Inc	IS GERBERA SUSCEPTIBLE TO CHILLING INJURY?	144277	\$11,200
Moraru, Carmen	CALS Food Science	Nestle S.A.	ASSESS FOULING MECHANISMS DURING MEMBRANE CONCENTRATION OF COFFEE BY REVERSE OSMOSIS	142762	\$49,318
Morrisett, Greg	Central Operations	National Aeronautics and Space Administration	ENHANCING ARXIV INTEROPERABILITY: STEPS TOWARDS INTERDISCIPLINARY RESEARCH	138591	\$647,553
Moses, Jeffrey	Applied & Engineering Physics	DOD -> DOD Office of the Secretary of Defense (Through: Opto-Knowledge Systems, Inc.)	GENERATION AND SHAPING OF INTENSE PULSED LASER BEAMS FOR IR COUNTERMEASURES	142083	\$76,500
Neill, Clinton	Population Medicine & Diagnostic Science	American Veterinary Medical Association	ORGANIZATIONAL INTERVENTIONS TO ALLEVIATE BURNOUT AMONG VETERINARIANS	143417	\$200,433
Nissenbaum, Helen	Tech Research	Hopewell Fund -> Economic Security Project	ANTI-MONOPOLY PROJECT	144612	\$30,000
Osofsky, Steven	Population Medicine & Diagnostic Science	World Wildlife Fund Inc	RESTORING ELEPHANT MIGRATIONS THROUGH SCIENCE-BASED DISEASE RISK ASSESSMENTS OF POTENTIAL DECOMMISSIONING OF KEY VETERINARY FENCES CURRENTLY IMPEDING WILDLIFE MOVEMENTS ACROSS THE KAVANGO ZAMBEZI (KAZ	145297	\$132,604
Parker, John	Baker Institute for Animal Health	HHS -> PHS -> National Institutes of Health (Through: HHS -> PHS -> NIH -> NIH National Institute of Allergy and Infectious Diseases)	SHORT TERM TRAINING FOR STUDENTS IN THE HEALTH PROFESSIONS	88148	\$2,706
Parker, John	Baker Institute for Animal Health	Burroughs Wellcome Fund	BECOMING FACULTY WORKSHOP	145293	\$15,000
Parker, John	Baker Institute for Animal Health	Burroughs Wellcome Fund	14TH INTERNATIONAL DOUBLESTRANDED RNA VIRUS SYMPOSIUM, OCT 10-14, 2022.	145660	\$5,000
Rahm, Brian	CALS Biological & Environmental Engr	USDA -> USDA Rural Development (Through: Syracuse University)	HELPING RURAL COMMUNITIES RESPOND TO CHALLENGES THROUGH MANAGERIAL AND FINANCIAL TRAINING AND TECHNICAL ASSISTANCE: INFRASTRUCTURE AND ECONOMIC DEVELOPMENT (TAT 2021)	138383	\$24,999
Rizvi, Syed	CALS Food Science	Foundation for Food & Agriculture Research	VALUE-ADDED AND NUTRITIONALLY SUPERIOR EXTRUDED FOODS FROM AGRICULTURAL WASTE STREAMS	87876	\$38
Rudstam, Lars	CALS Natural Resources	DOI -> United States Geological Survey	IMPROVING THE ACCURACY OF USGS'S ACOUSTIC FISH ABUNDANCE ESTIMATES USING HIGH ENDURANCE AUTONOMOUS VEHICLES	138261	\$273,994
Ruiz, Antonio	Neurobiology and Behavior	Alfred P Sloan Foundation	2022 ALFRED P. SLOAN RESEARCH FELLOWSHIP	141250	\$75,000
Ruiz, Antonio	Neurobiology and Behavior	Esther A & Joseph Klingenstein Fund Inc	DISTRIBUTED BRAIN DYNAMICS FOR MEMORY-GUIDED BEHAVIOR	145305	\$225,000
Schuler, Krysten	Population Medicine & Diagnostic Science	USDA -> USDA Animal and Plant Health Inspection Service (Through: Michigan State University)	A MULTICENTER VALIDATION OF RT-QUIC ASSAY FOR SENSITIVE DETECTION OF CHRONIC WASTING DISEASE	140680	\$35,413

Sethupathy, Praveen	Biomedical Sciences	HHS -> PHS -> NIH -> NIH Office of the Director, National Institutes of Health	MICRORNA-375 REGULATION OF ENTEROENDOCRINE CELL BIOLOGY IN DIET-INDUCED OBESITY AND BARIATRIC SURGERY	136942	\$2,107
Smart, Larry	CALS School of Integrative Plant Science	Foundation for Food & Agriculture Research (Through: North Carolina State University)	MULTISTATE SCREENING OF TRIPLOID CBD HEMP AGRONOMIC PERFORMANCE AND POLLEN SENSITIVITY	141231	\$38,852
Specht, Chelsea	CALS School of Integrative Plant Science	Howard Hughes Medical Institute	EMERGING RESOURCES TO CONFRONT THE BIODIVERSITY CRISIS: NEOTROPICAL PALMS AS AN INDICATOR FOR ECOSYSTEM ROBUSTNESS AND RESILIENCY	141970	\$159,000
Sun, Ying	CALS School of Integrative Plant Science	National Aeronautics and Space Administration	UNDERSTANDING AND PREDICTING THE INTERANNUAL VARIABILITY (IAV) OF THE GLOBAL TERRESTRIAL CARBON CYCLE	92497	\$24,092
Tester, Jefferson	Chemical & Biomolecular Engineering	United States Department of Energy	TEMPERATURE-RESPONSIVE SWELLING PARTICLES FOR ELIMINATION OF COOLED SHORT-CIRCUITS IN A DISCRETE FRACTURE	140384	\$2,595,521
White, Andrew	Biomedical Sciences	HHS -> PHS -> NIH -> NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases	REGULATORS OF MELANOCYTE STEM CELL MIGRATION AND MELANOMA INITIATION IN RESPONSE TO CUTANEOUS UVB IRRADIATION	90490	\$29,773
Wilson, Justin	Chemistry and Chemical Biology	NSF -> NSF Directorate for Mathematical and Physical Sciences	RUTHENIUM COORDINATION COMPLEXES AS TOOLS FOR STUDYING BIOLOGICAL HYDROGEN SULFIDE	142074	\$450,000
Yoon, Jay	Design and Environmental Analysis	NSF -> NSF Directorate for Computer and Information Science and Engineering	CAREER: USING POSITIVE EMOTION REGULATION TO DESIGN EVERYDAY TECHNOLOGY THAT PROMOTES SUBJECTIVE WELL-BEING	141063	\$497,466
Yu, Haiyuan	Weill Institute	The Simons Foundation Inc	CELL-TYPE-SPECIFIC INTERACTOME DISRUPTION PRIORITIZE RISK MISSENSE MUTATIONS FOR ASD	140835	\$890,000
Zhang, K. Max	Mechanical & Aerospace Engineering	NYS -> New York State Energy Research and Development Authority	REMOTE SENSING AND DATA-DRIVEN TECHNIQUES FOR ADVANCING CLIMATE LEADERSHIP AND COMMUNITY PROTECTION	143036	\$334,353