

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

Principal Investigator	Department	Sponsor	Project Title	OSP#	Amount
Baptist, Edward	History	National Endowment for the Arts	SINGING FREEDOM: AN INTERDISCIPLINARY WORK BRINGING TO LIFE FREEDOM ON THE MOVE'S DATABASE OF FUGITIVE SLAVE ADVERTISEMENTS THROUGH PERFORMANCE AND COMMUNITY ENGAGEMENT	136805	\$30,000
Barkley, Amy	CALS Cornell Cooperative Extension	USDA -> USDA National Institute of Food and Agriculture (Through: University of Vermont)	OPTIMIZING THE ECONOMIC RETURN OF PASTURE-RAISED SLOW GROWTH AND CONVENTIONAL BROILERS	142149	\$175,000
Bilinski, Cheryl	CALS Cornell Cooperative Extension	USDA -> USDA Food and Nutrition Service (Through: NYS -> New York State Department of Agriculture and Markets)	NEW YORK STATE FARM TO SCHOOL USING TECHNOLOGY TO ACHIEVE FARM TO SCHOOL GOALS	139049	\$23,602
Blossey, Bernd	CALS Natural Resources	The Woodland Trust	TESTING NOVEL METHODS FOR MEASURING DEER IMPACTS AND MANAGEMENT OUTCOMES IN SCOTTISH WOODLANDS	144317	\$26,241
Boisclair, Yves	CALS Animal Science	USDA -> USDA National Institute of Food and Agriculture	PLASMA EXOSOMES AS MEDIATORS OF THE INSULIN RESISTANCE OF PREGNANCY AND OBESITY IN RUMINANTS	139830	\$640,000
Brown, Susan	CALS School of Integrative Plant Science	New York Apple Growers and Processors Association, Inc.	NEW YORK APPLE GROWERS	62119	\$69,546
Bunting-Howarth, Katherine	CALS Sea Grant	NYS -> New York State Department of Environmental Conservation (Through: Consensus Building Institute)	THE HUDSON RIVER FLOOD RESILIENCE NETWORK: ENGAGING MORE COMMUNITIES, SHARPENING LINKS TO IMPLEMENTATION, AND DEVELOPING A STRATEGIC ROADMAP FOR SUSTAINED OPERATION	140408	\$18,000
Butcher, Jonathan	Biomedical Engineering	HHS -> PHS -> National Institutes of Health	MECHANOBIOLOGY OF CARDIAC OUTFLOW TRACT MORPHOGENESIS	140985	\$2,885,360
CHEN, Prof., Peng	Chemistry and Chemical Biology	HHS -> PHS -> National Institutes of Health	COMMUNITY-DERIVED ZINC METAL REGULATION FROM MONOLAYER TO BIOFILMS.	141129	\$134,952
Campbell, Mark	Mechanical & Aerospace Engineering	National Science Foundation	CPS: MEDIUM: SAFETY ASSURED, PERFORMANCE DRIVEN AUTONOMOUS VEHICLES	142765	\$1,195,425
Clark, Andrew	Molecular Biology and Genetics	HHS -> PHS -> National Institutes of Health	REGULATION OF GAMETE USE AND NEURAL PATHWAYS IN REPRODUCTION	140908	\$1,680,963
Cohen, Paula	Biomedical Sciences	HHS -> PHS -> National Institutes of Health (Through: HHS -> PHS -> NIH -> NIH Eunice Kennedy Shriver National Institute of Child Health and Human Development)	SLX4 AS A MEDIATOR OF CROSSOVER PATHWAY DECISIONS IN MAMMALIAN MEIOSIS	86708	\$76,150
Danforth, Bryan	CALS Entomology	USDA -> USDA National Institute of Food and Agriculture (Through: University of Vermont)	NORTHEAST POLLINATOR PARTNERSHIP - A PROGRAM TO EDUCATE AGRICULTURAL SERVICE PROVIDERS ABOUT THE BIOLOGY, IMPORTANCE, AND CONSERVATION OF WILD BEES	142098	\$150,203
Flanagan, Eanna	Cornell Lab Accelerator Sciences & Ed	The Simons Foundation Inc	BLACK HOLE HAWKING RADIATION AND SOFT HAIR	141822	\$128,506
Gangloff-Kaufmann, Jody	CALS NYS Integrated Pest Management	NYS -> New York State Department of Health	SENATE TASK FORCE ON LYME AND OTHER TICK-BORNE DISEASES	142679	\$100,000
Grimson, Andrew	Molecular Biology and Genetics	HHS -> PHS -> National Institutes of Health	MICRORNAS IN TISSUE-RESIDENT MEMORY T CELLS	139061	\$438,285

Grimson, Andrew	Molecular Biology and Genetics	HHS -> PHS -> NIH -> NIH AIDS Reagent Program	A SINGLE COMPREHENSIVE ASSAY FOR GENE REGULATORY PROFILING OPTIMIZED FOR MINIMAL SAMPLE INPUT REQUIREMENTS	90844	\$32,506
Hassani, Mostafa	Mechanical & Aerospace Engineering	National Science Foundation	CAREER: A UNIFIED APPROACH TO UNDERSTAND CRITICAL VELOCITY AND BOND STRENGTH IN COLD SPRAY ADDITIVE MANUFACTURING	140970	\$648,748
Hayes, Alexander	Center Astrophysics-Planetary Science	NASA -> Jet Propulsion Laboratory	EVOLUTION AND HABITABILITY OF OCEAN WORLDS IN THE SOLAR SYSTEM AND BEYOND	144275	\$43,051
Helbling, Damian	Civil & Environmental Engineering	GlobalFoundries Inc	SAMPLING AND ANALYSIS TO INFORM MASS BALANCES ON PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) IN SEMICONDUCTOR FABRICATION WASTEWATER	141320	\$81,384
Holgerson, Meredith	CALS Ecology & Evolutionary Biology	NYS -> New York State Department of Environmental Conservation	WETLANDS AND WATERBODIES GREENHOUSE GAS ASSESSMENT	142807	\$745,289
Hua, Jian	CALS School of Integrative Plant Science	USDA -> USDA National Institute of Food and Agriculture	INVESTIGATING CHILLING TOLERANCE MECHANISMS VIA CTK1 GENES IN RICE AND MAIZE	140311	\$648,068
Huson, Heather	CALS Animal Science	DOD -> DOD US AF -> Air Force Research Laboratory (Through: UES Inc)	MUSKOX KERATIN FOR TEXTILES WITH ENHANCED THERMAL INSULATING PROPERTIES	143595	\$49,799
Hyman, Louis	Labor Relations, Law, & History	The Stanton Foundation	APPLIED HISTORY: CROSSROADS IN THE US ECONOMY	143686	\$50,000
Hysell, David	Earth & Atmospheric Sciences	National Science Foundation (Through: NSF -> NSF Directorate for Geosciences)	SPACE WEATHER AND THE JICAMARCA RADIO OBSERVATORY	82350	\$568,521
Jackson, Steven	Information Science	National Science Foundation	DDRIG: CLIMATE CHANGE AND NETWORKED INFRASTRUCTURES IN VULNERABLE LOUISIANA COASTAL COMMUNITIES: A HISTORICAL ETHNOGRAPHIC, AND DESIGN INQUIRY	141238	\$15,632
Jiang, Yu	CALS School of Integrative Plant Science	USDA -> USDA ARS -> ARS Northeast Area	EXPLAINABLE DEEP-LEARNING BASED IMAGE ANALYSIS WITH BLACKBIRD RGB IMAGING ROBOT FOR LABORATORY HIGH THROUGHPUT PHENOTYPING	141381	\$96,899
Kim, Eunah	Lab. of Atomic & Solid State Physics	The Simons Foundation Inc	MACHINE LEARNING EMERGENCE FROM QUANTUM MATTER DATA	141915	\$120,422
Li, Sijin	Chemical & Biomolecular Engineering	HHS -> PHS -> National Institutes of Health	SIMULTANEOUS TREATMENT OF VIRAL AND BACTERIAL OTITIS MEDIA USING PLANT NATURAL PRODUCTS	92472	\$14,696
Liepe, Matthias	Cornell Lab Accelerator Sciences & Ed	United States Department of Energy (Through: Brookhaven National Lab)	BNL B-CELL TEST	144492	\$37,882
Lighthall, Shari	CALS School of Integrative Plant Science	NYS -> New York State Department of Agriculture and Markets	AGRICULTURE IN THE CLASSROOM (2021-2022)	141403	\$380,000
Lin, Song	Chemistry and Chemical Biology	DOD -> DOD US NAVY -> Office of Naval Research	INNOVATING ENERGETIC MATERIALS CHEMISTRY USING ELECTROSYNTHESIS AND DATA SCIENCE	139922	\$484,599
Lohman, Rowena	Earth & Atmospheric Sciences	National Aeronautics and Space Administration	THE IMPACT OF SOIL MOISTURE VARIATIONS ON INSAR TIME SERIES ANALYSIS - APPLICATIONS AND EVALUATION OF THE EFFECT ON THE NISAR MISSION AND POTENTIAL FOR MITIGATION	87978	\$99,999
Londo, Jason	CALS School of Integrative Plant Science	National Science Foundation (Through: Saint Louis University)	ADAPTING PERENNIAL CROPS FOR CLIMATE CHANGE: GRAFT TRANSMISSIBLE EFFECTS OF ROOTSTOCKS ON GRAPEVINE SHOOTS	143125	\$309,700

Mann, Kathryn	Mathematics	National Science Foundation	CAREER: GEOMETRIC AND TOPOLOGICAL APPROACHES TO GROUP ACTIONS IN LOW DIMENSIONS	90002	\$21,438
Manning, Sturt	Classics	Shenandoah National Park Trust	GEOPHYSICAL SURVEY OF ARCHAEOLOGICAL AND HISTORICAL FEATURES AT THE BIG MEADOW CAMPGROUND, SHENANDOAH NATIONAL PARK	144088	\$30,000
Mazourek, Michael	CALS School of Integrative Plant Science	USDA -> USDA National Institute of Food and Agriculture	DISCOVERING THE GENETIC BASIS OF HIGH CAROTENOID ACCUMULATION FROM SQUASH	140306	\$649,000
McMahon, Peter	Applied & Engineering Physics	DOD -> DOD US AF -> Air Force Office of Scientific Research	(DURIP) MICROWAVE EQUIPMENT FOR THE CONTROL AND MEASUREMENT OF SUPERCONDUCTING CURRENTS	140205	\$344,928
Meredith, Gen	Master of Public Health Program (MPH)	National 4-H Council	CORNELL'S 4H PUBLIC HEALTH ESSENTIALS CERTIFICATE PROGRAM	144025	\$30,000
Monticone, Francesco	Electrical & Computer Engineering	DOD -> DOD US AF -> Air Force Office of Scientific Research	NOVEL METASURFACE PLATFORMS FOR OMNIDIRECTIONAL ENERGY TUNNELING, BROADBAND RADAR ABSORBERS, AND ENHANCED FLAT OPTICS	140425	\$497,213
Moore, Justin	Mathematics	National Science Foundation	SUMTOPO AND TOPOSYM 2022	142123	\$28,650
Morrisett, Greg	Tech Research	Facebook Inc	FINE-GRAINED ANALYSIS OF IMAGES AND VIDEO FOR UNDERSTANDING USER INTENT - PHASE 2	142964	\$1,319,874
Murray, Timothy	Architecture	The Andrew W Mellon Foundation	COLLABORATIVE STUDIES IN ARCHITECTURE, URBANISM, AND THE HUMANITIES	138869	\$1,283,100
Neill, Clinton	Population Medicine & Diagnostic Science	USDA -> USDA National Institute of Food and Agriculture	EXPLORING THE ECONOMIC IMPACT AND DRIVERS OF RURAL VETERINARY BUSINESSES THROUGHOUT THE UNITED STATES	140247	\$650,000
Netravali, Anil	Fiber Science and Apparel Design	NSF -> NSF Directorate for Engineering (Through: Tuskegee University)	CREST CENTER FOR SUSTAINABLE LIGHTWEIGHT MATERIALS (CSLAM): PROCESSING AND PERFORMANCE EVALUATION OF ADVANCED GREEN NANOCOMPOSITES	82343	\$76,100
Niemack, Michael	Cornell Lab Accelerator Sciences & Ed	The Simons Foundation Inc (Through: UCAL -> The Regents of the University of California on behalf of its San Diego Campus)	SIMONS OBSERVATORY	84037	\$167,468
Rangarajan, Anu	CALS School of Integrative Plant Science	NYS -> New York State Department of Agriculture and Markets	VETERANS TO FARMS (2021 - 2022) (MOU)	140748	\$115,000
Robbins, Kelly	CALS School of Integrative Plant Science	USDA -> USDA National Institute of Food and Agriculture	DSFAS-CIN: EXPANDING THE BREEDING APPLICATION PROGRAMMING INTERFACE (BRAPI) FOR NEXT GENERATION BREEDING METHODS	140821	\$937,638
Robinson, Terence	CALS School of Integrative Plant Science	International Fruit Tree Association	NEW TRAINING SYSTEMS, SPACINGS AND ROOTSTOCKS FOR EASTERN SWEET AND TART CHERRY GROWERS	143466	\$9,000
Rodewald, Amanda	CALS Lab of O - Ctr Avian Studies	March Conservation Fund	CORNELL LAND TRUST BIRD CONSERVATION INITIATIVE SMALL GRANT PROGRAM	143871	\$273,484
Rose, Jocelyn	CALS School of Integrative Plant Science	Foundation for Food & Agriculture Research	ANALYSIS OF TERPENES AND NEUTRAL CANNABINOIDS USING GAS CHROMATOGRAPHY/MASS SPECTROMETRY AND GENOTYPING OF HEMP USING THE SURESELECT SYSTEM	141421	\$377,000
Ryan, Matthew	CALS School of Integrative Plant Science	USDA -> USDA National Institute of Food and Agriculture (Through: University of Vermont)	REGENERATIVE ORGANIC DRY BEAN PRODUCTION IN THE NORTHEAST	142258	\$250,000
Sacks, Gavin	CALS Food Science	NYS -> New York State Department of Agriculture and Markets	2021-2022 CONCORD GRAPE RESEARCH	142134	\$300,000

Scaglione, Anna	Tech Research	United States Department of Energy (Through: Lawrence Berkeley National Laboratory)	PROVABLE ANONYMIZATION OF GRID DATA FOR CYBERATTACK DETECTION FOR U.S. DOE OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY CYBERSECURITY FOR ENERGY DELIVERY SYSTEMS	140333	\$247,464
Schneider, David	Systems Engineering	National Science Foundation (Through: Pennsylvania State University)	EXPLORING THE IMPACTS OF STUDENT COMPETITIONS IN DEVELOPING INNOVATION MINDSETS: AN ANALYSIS THROUGH THE LENS OF THE TRANSFORMATIVE LEARNING THEORY	138787	\$14,177
Schneider, Fred	Computer Science	DOD -> DOD US AF -> Air Force Office of Scientific Research	FROM EXPRESSIVE TAGS TO SYSTEM SECURITY POLICIES	89197	\$200,000
Schryver, Tom	Center for Economic Advancement	NYS -> NYS ESD -> New York State Division of Science, Technology and Innovation	SOUTHERN TIER STARTUP ALLIANCE: THE SOUTHERN TIER'S INNOVATION HOT SPOT	140902	\$1,250,000
Schuler, Krysten	Public and Ecosystem Health	DOI -> United States Fish and Wildlife Service	CONTAMINANT LOADS IN WATERFOWL OF THE NORTHEAST ATLANTIC FLYWAY: NEW THREATS AND OUTDATED ADVISORIES	140996	\$280,959
Sethupathy, Praveen	Biomedical Sciences	Fibrolamellar Cancer Foundation	MULTICENTER CONSORTIUM TO DEFINE THE SINGLE-CELL ACTIVITY LANDSCAPE OF FIBROLAMELLAR CARCINOMA	140568	\$257,109
Smart, Chris	CALS School of Integrative Plant Science	NYS -> New York State Department of Agriculture and Markets	2021 - 2022 VEGETABLE RESEARCH	141542	\$120,000
Smith, Margaret	CALS CU Agriculture Experiment Station	William H. Miner Agricultural Research Institute	WORKING RELATIONSHIP BETWEEN THE WILLIAM H. MINER AGRICULTURAL RESEARCH INSTITUTE AND CORNELL UNIVERSITY	62293	\$27,000
Smith, Margaret	CALS Global Development	UG -> West Africa Centre for Crop Improvement	WACCI LIBRARY AND SCIENTIFIC WRITING TRAINING (2020)	92140	\$4,996
Snyder, Abigail	CALS Food Science	National Science Foundation (Through: Halomine Inc)	HALOFILM: A SPRAY-ON, RECHARGEABLE, REAPPLICABLE ANTIMICROBIAL COATING	139171	\$100,000
Sosnoskie, Lynn	CALS School of Integrative Plant Science	PENNSYLVANIA -> Commonwealth of Pennsylvania Department of Agriculture	EVALUATING THE EFFICACY AND SAFETY OF PYRIDATE IN SNAP BEANS	143063	\$3,570
Sosoe, Philippe	Mathematics	National Science Foundation	FLUCTUATIONS IN POLYMERS AND RANDOM DATA PDE	141528	\$321,450
Steinschneider, Scott	CALS Biological & Environmental Engr	DOI -> United States Geological Survey (Through: UMASS -> University of Massachusetts Amherst)	DYNAMIC CLIMATE ADAPTATION FOR WETLAND RESTORATION AND COASTAL COMMUNITIES ON LAKE ONTARIO	93205	\$377,120
Stewart-Courtens, Crystal	CALS Cornell Cooperative Extension	USDA -> USDA National Institute of Food and Agriculture (Through: University of Vermont)	INCREASING CAPACITY TO PRODUCE HIGH-QUALITY, REGIONALLY ADAPTED SEED TO ENHANCE NORTHEAST BIOSECURITY AND DIVERSIFY MARKETS FOR VEGETABLE GROWERS	142277	\$149,749
Thaler, Jennifer	CALS Entomology	TechAccel LLC	EVALUATION OF FOLIAR-APPLIED DSRNA ON THE COLORADO POTATO BEETLE	143927	\$39,753
Therkildsen, Nina	CALS Natural Resources	Hudson River Foundation for Science and Environmental Research Inc	IMPROVED GENETIC ASSIGNMENT TOOLS FOR QUANTIFYING THE IMPACTS OF OCEAN FISHERIES ON AMERICAN SHAD RECOVERY IN THE HUDSON RIVER	141350	\$49,560
Tong, Lang	Electrical & Computer Engineering	AZ Board of Regents on behalf of Arizona State University	PSERC-TONG	65603	\$15,000
Tong, Lang	Electrical & Computer Engineering	AZ Board of Regents on behalf of Arizona State University	PSERC-TONG	65603	\$10,000

Tufan, Hale	CALS Global Development	Bill and Melinda Gates Foundation (Through: CGIAR -> Centro Internacional de Mejoramiento de Maiz y Trigo)	GENDER ANALYSIS IN BREEDING PRIORITY SETTING: REVIEW AND RECOMMENDATIONS ON TOOLS AND METHODS	143844	\$523,998
Turner, Andy	Bronfenbrenner Ctr for Translational Rsch Labor Dynamics Institute	National 4-H Council	4-H HEALTHY HABITS 2022-2023 WALMART-TURNER	143209	\$111,848
Vilhuber, Lars		American Economic Association Inc	DATA EDITOR FOR THE AMERICAN ECONOMIC ASSOCIATION	85946	\$290,828
Walter, Todd	CALS Biological & Environmental Engr	USDA -> USDA US Forest Service	BIOGEOCHEMICAL MODELING OF SOILS IN SOUTHEAST ALASKA	86952	\$193
Warner, Mildred	City and Regional Planning	The Pew Charitable Trusts	UNIVERSAL BROADBAND ACCESS: THE ROLE OF STATES AND LOCALITIES	142830	\$199,752
Watkins, James	CALS Natural Resources	Environmental Protection Agency	GREAT LAKES LONG-TERM BIOLOGICAL MONITORING PROGRAM 2022-2027	141698	\$6,749,825
Weber, Courtney	CALS School of Integrative Plant Science	NYS -> New York State Department of Agriculture and Markets	2021-2022 BERRY GROWERS RESEARCH	141831	\$312,000
Weinberger, Kilian	Computer Science	Systems & Technology Research	GEOMETRICS OF LEARNING	143205	\$300,000
Whitmore, Mark	CALS Natural Resources	NYC -> New York City Department of Environmental Protection	ESTABLISHMENT AND EVALUATION OF HEMLOCK WOOLLY ADELGID BIOLOGICAL CONTROL IN THE NEW YORK CITY WATERSHED	91387	\$99,931
Wolfner, Mariana	Molecular Biology and Genetics	HHS -> PHS -> National Institutes of Health	GENETICS AND PROTEOMICS OF MOUSE EGG ACTIVATION	136655	\$23,456
Xing, H. Grace	Electrical & Computer Engineering	Asahi Kasei Corporation	POWER DEVICES ENABLED BY POLARIZATION-CONTROLLED HETEROINTERFACES ON BULK ALN SUBSTRATES	144381	\$200,000
Xu, Chris	Applied & Engineering Physics	HHS -> PHS -> National Institutes of Health (Through: HHS -> PHS -> NIH -> NIH National Institute of Neurological Disorders and Stroke)	CLOSE-LOOP, SPATIALLY ADDRESSABLE MULTIPHOTON FUNCTIONAL IMAGING	88390	\$12,197
Yuan, Connie	CALS Communication	Environmental Defense Fund Inc	DEVELOPING COMMUNITY-DRIVEN FOUNDATIONS FOR CLEAN AIR ADVOCACY IN MANHATTAN'S CHINATOWN	144569	\$24,600