

**Cornell University, Office of Sponsored Programs**  
**Awards Received in April 2020**

<b>Principal Investigator</b>	<b>Department</b>	<b>Sponsor</b>	<b>Project Title</b>	<b>OSP#</b>	<b>Amount</b>
ABBASPOURRAD, ALIREZA	CALS Food Science	DMI	CHEMOENZYMATIC SYNTHESIS OF SOME OF THE HUMAN MILK OLIGOSACCHARIDES (HMOS)	91542	\$185,000
ABBASPOURRAD, ALIREZA	CALS Food Science	DMI	NOVEL APPROACHES TO ENCAPSULATE LIVE AND ACTIVE CULTURES TO EXTEND THEIR SHELF LIFE IN LOW ACID BEVERAGES AND ALLOW FOR NON-REFRIGERATED STORAGE	91545	\$100,000
ABBASPOURRAD, ALIREZA	CALS Food Science	DMI	CONVERSION OF LACTOSE TO SURFACTANTS	89706	\$89,000
ABERS, GEOFFREY A	Earth & Atmospheric Sciences	NSF	COLLABORATIVE RESEARCH: SYNTHESIZING ARC-SCALE GEOCHEMICAL, PETROLOGIC, AND GEOPHYSICAL DATASETS TO INVESTIGATE CAUSES OF VOLCANIC DIVERSITY IN THE CASCADE ARC	90703	\$103,886
BANEUX, PHILIPPE	Biomedical Sciences	ASLAP	CORNELL CENTER FOR ANIMAL RESOURCES AND EDUCATION (CARE) ASLAP FOUNDATION SUMMER FELLOWSHIP	91497	\$5,000
BARBANO, DAVID M	CALS Food Science	USDA (AMS)	MILK TESTING METHODOLOGY IMPROVEMENT AND STANDARDIZATION	15366	\$287,102
BAZAROV, IVAN	Cornell Lab Accelerator Sciences & Ed	STRUCTURED MATERIALS INC.	ROBUST HIGH BRIGHTNESS PHOTOCATHODES USING III-NITRADE MATERIALS	91486	\$33,000
BENSON, AUSTIN REILLEY	Computer Science	JPMORGANCHASE	PATTERN-BASED HETEROGENEOUS GRAPH CLUSTERING AT SCALE	92320	\$90,626
BONHOTAL, JEAN F	CALS School of Integrative Plant Science	NYS (NYS DEC)	SUSTAINABLE DISPOSAL: LIVESTOCK MORTALITY MANAGEMENT IN NYS, DEVELOPING CAPACITY	92145	\$85,000
CASTEEL, CLARE L	CALS School of Integrative Plant Science	NSF (NSF BIO)	ECA-PGR: TRANSCRIPTIONAL REGULATION AND GENE NETWORKS UNDERLYING VIRAL RECOGNITION OF INSECT VECTORS IN HOST PLANTS	92806	\$1,315,896
CHERNEY, DEBBIE J	CALS Animal Science	JEFFERSON CTY (CCE JEFFERSON)	MAXIMIZING GRASS QUALITY OF ALFALFA-GRASS MIXTURES	91706	\$35,542
COFFMAN, W. RONNIE	CALS Global Development	ISAAA	ISAAA AMERICENTER ADMINISTRATION	23698	\$200,000
COHEN, ITAI	Lab. of Atomic & Solid State Physics	DHHS (NIH)	DETERMINING COMPUTATIONAL PRINCIPLES GOVERNING NEURAL CIRCUITS RESPONSIBLE FOR FEEDBACK AND MOVEMENT CONTROL OF D. MELANOGASTER FLIGHT	90544	\$1,676,938
DANIEL, SUSAN	Chemical & Biomolecular Engineering	NSF	RAPID: REVEALING THE INTERMOLECULAR INTERACTIONS BETWEEN THE SARS-COV-2/COVID-19 FUSION PEPTIDE AND TH HOST CELL MEMBRANE THAT UNDERLIE ITS FLEXIBILITY IN HOS' TROPISM: COVID 19	92859	\$200,000
DATTA, ASHIM K	CALS Biological & Environmental Engr	PEPSICO	A DIGITAL TWIN TO MAXIMIZE THE QUALITY OF THE HYBRID-BAKED CHIP	92595	\$101,035
DAVIS, MICHAEL H	CALS CU Agriculture Experiment Station	JEFFERSON CTY (CCE JEFFERSON)	ESTABLISHING NEW COMMERCIAL FRUIT CROPS FOR NORTHERN NEW YORK	91554	\$9,794
DE JONG, WALTER	CALS School of Integrative Plant Science	U OF MAINE	POTATO BREEDING TO IMPROVE BIOTIC AND ABIOTIC STRESS TOLERANCE FOR EASTERN MARKETS	90081	\$114,855
ELVINGER, FRANCOIS	Animal Health Diagnostic Center	NYS (AGMRKT)	AVIAN INFLUENZA SURVEILLANCE TESTING (LPAI) CONTRACT YEAR 4/1/19 - 3/31/20	90858	\$163,900
FISCHBACH, CLAUDIA	Biomedical Engineering	BCCR	INVESTIGATING THE ROLE OF METABOLISM AND THE PERIVASCULAR NICHE ON BREAST CANCER STEM-LIKE CELL PROPERTIES	92109	\$25,000
GRANTHAM, DEBORAH	CALS Cornell Cooperative Extension	PENN STATE	SCRI CAP PROPOSAL: BIOLOGY MANAGEMENT, AND REDUCING THE IMPACT OF THE SPOTTED LANTERNFLY IN SPECIALTY CROP: IN THE EASTERN USA	89977	\$889,252

GRIGORIU, MIRCEA D GRUNER, SOL M	Civil & Environmental Engineering Lab. of Atomic & Solid State Physics	NSF SYDOR	DATA-BASED SYSTEM RELIABILITY DESIGN FOR WIND WIDE DYNAMIC RANGE X-RAY MIXED-MODE PIXEL ARRAY DETECTOR (PHASE II)	91952 85847	\$464,750 \$125,000
HAGHTALAB, NIKA	Computer Science	JP MORGAN & CO	FAIR MACHINE LEARNING: DYNAMICS, ECONOMICS, AND PRIVACY	92307	\$150,000
HALPERN-LEISTNER, DANIEL S	Mathematics	NSF	CAREER: MODULI PROBLEMS AND DERIVED CATEGORIES : CAREER	90476	\$400,000
HANSEN, JULIE L HAVEKES, CASEY DIEN	CALS School of Integrative Plant Science CALS Cornell Cooperative Extension	JEFFERSON CTY (CCE JEFFERSON) JEFFERSON CTY (CCE JEFFERSON)	BROWN ROOT ROT OF ALFALFA AND PLANT SURVIVAL IN NNY DETERMINING THE ENTEROPATHOGEN CAUSING NEONATAL DIARRHEA AND ASSOCIATING IT WITH ANTIBIOTIC USE ON NORTHERN NEW YORK DAIRY FARMS.	91712 91702	\$7,552 \$28,084
HILGARTNER, STEPHEN H	Science and Technology Studies	NSF	RAPID: COLLABORATIVE RESEARCH: A COMPARATIVE STUDY OF EXPERTISE FOR POLICY IN THE COVID-19 PANDEMIC	92980	\$63,393
HODDINOTT, JOHN	Nutritional Sciences	NSF	DOCTORAL DISSERTATION RESEARCH IN ECONOMICS: INCOME, COGNITIVE TAX, AND ECONOMIC DECISION-MAKING AMONG THE URBAN POOR	91021	\$24,000
IVANEK MIOJEVIC, RENATA	Population Medicine & Diagnostic Science	PEW TRUSTS	COMPARISON OF DIFFERENT BIOMASS METHODOLOGIES TO ADJUST DATA ON ANTIMICROBIAL DRUG SALES FOR USE IN FOOD-PRODUCING ANIMALS IN USA	92073	\$32,465
JOHNSTON, ALISON	CALS Lab of O - Programs	PACKARD FDN	DATA COLLECTION AND VISUALIZATIONS FOR SHOREBIRD CONSERVATION	92760	\$206,756
JUST, DAVID R	CALS AEM	USDA (USDA-NIFA)	BARRIERS TO RURAL FOOD ASSISTANCE AND FOOD PANTRY USE TIME, SPACE AND ENVIRONMENT	90994	\$498,839
KALANTARI, SALEH	Design and Environmental Analysis	WCM	THE CENTER FOR ENHANCING NEUROCOGNITIVE HEALTH, ABILITIES, NETWORKS, & COMMUNITY ENGAGEMENT (ENHANCE)	90507	\$187,565
KAO-KNIFFIN, JENNY T	CALS School of Integrative Plant Science	USDA (USDA-NIFA)	DEVELOPING CROP MICROBIOMES FOR ENHANCED NITROGEN UTILIZATION	76671	\$250,000
KARIM, SABRINA M KATO, KENGO	Government Statistical Science	DCAF NSF	ELSIE INITIATIVE FOR WOMEN IN PEACE OPERATIONS FRG: COLLABORATIVE RESEARCH : QUANTILE-BASED MODELING FOR LARGE-SCALE HETEROGENEOUS DATA	88408 91033	\$60,000 \$150,000
KELLING, STEVEN T	CALS Lab of O - Programs	NSF	EBIRD ENTERPRISE: MAINTAINING THE CYBERINFRASTRUCTURE TO SUPPORT THE COLLECTION, STORAGE, ARCHIVE, ANALYSIS, AND ACCESS TO A GLOBAL BIODIVERSITY DATA RESOURCE	90505	\$1,000,000
KELLING, STEVEN T	CALS Lab of O - Programs	NSF	EBIRD ENTERPRISE: MAINTAINING THE CYBERINFRASTRUCTURE TO SUPPORT THE COLLECTION, STORAGE, ARCHIVE, ANALYSIS, AND ACCESS TO A GLOBAL BIODIVERSITY DATA RESOURCE	90505	\$171,473
KETTERINGS, QUIRINE	CALS Animal Science	JEFFERSON CTY (CCE JEFFERSON)	ROLL-OUT OF THE NEW YORK PHOSPHORUS INDEX 2.0 ACROSS NORTHERN NEW YORK FARMS	91617	\$35,754
KETTERINGS, QUIRINE	CALS Animal Science	JEFFERSON CTY (CCE JEFFERSON)	USING SATELLITE AND AUTOMATED DRONE IMAGERY TO GIVING ALL FARMERS ACCESS TO YIELD ESTIMATES FOR ZONE- BASED FIELD MANAGEMENT	91614	\$38,468
KETTERINGS, QUIRINE	CALS Animal Science	JEFFERSON CTY (CCE JEFFERSON)	FARM SPECIFIC CORN YIELD POTENTIAL AND NITROGEN AND PHOSPHORUS CROP REMOVAL ESTIMATES	91613	\$33,335
LAMMERDING, JAN	Weill Institute	DHHS (NIH-NIH NIGMS)	NUCLEAR MECHANOBIOLOGY IN CONFINED MIGRATION	89191	\$1,256,672

LANCASTER, KYLE	Chemistry and Chemical Biology	NSF	COLLABORATIVE RESEARCH: ELECTRONIC STRUCTURE/ FUNCTION RELATIONSHIPS IN BASE METAL COMPLEXES SPANNING THE OXO/OXENE AND IMIDE/NITRENE CONTINUUM	91178	\$300,000
LEVY, KAREN	Department of Statistics & Data Science	IIE	SUMMER SCHOOL ON DESIGNING TECHNOLOGY FOR SOCIAL IMPACT: X-GRANT	92777	\$25,000
LIFKA, DAVID	Center for Advanced Computing	NSF (NSF CISE)	CC*DNI DIBBS: DATA ANALYSIS AND MANAGEMENT BUILDING BLOCKS FOR MULTI-CAMPUS CYBERINFRASTRUCTURE THROUGH CLOUD FEDERATION	76221	\$47,592
LIN, HENING	Chemistry and Chemical Biology	WCM	MECHANISMS OF AHR METABOLIC TOXICITY	78957	\$19,421
LIU, JUN	Molecular Biology and Genetics	NSF	REU SITE: MOLECULAR BIOLOGY AND GENETICS OF CELL SIGNALING	91092	\$365,867
MANNING, STURT	Classics	UNIVERSITY OF TORONTO	COMPUTATIONAL RESEARCH ON THE ANCIENT NEAR EAST (CRANE): LARGE-SCALE DATA INTEGRATION AND ANALYSIS IN NEAR EASTERN ARCHAEOLOGY	91500	\$83,804
MCMAHON, PETER	Applied & Engineering Physics	STANFORD U	EXPEDITIONS: INVESTIGATION OF COHERENT ISING MACHINES FOR COMBINATORIAL OPTIMIZATION, MACHINE LEARNING, AND NEUROMORPHIC COMPUTING	88925	\$1,216,294
MEHTA, SAURABH	Nutritional Sciences	TUFTS U	FOOD SAFETY ASSESSMENT VIA AFLATOXIN SENSORS AT THE POINT-OF-CARE	87788	\$5,475
MEHTA, SAURABH	Nutritional Sciences	GAIN	REVIEW OF FOOD SAFETY & NUTRITION LINKAGES	92506	\$25,231
MORARU, CARMEN I	CALS Food Science	DMI	CHEESE SNACK PRODUCTS: CONSUMER TRENDS AND A NOVEL MANUFACTURING APPROACH USING VACUUM MICROWAVE DRYING TECHNOLOGY	91543	\$164,158
NAULT, BRIAN A	CALS Entomology	NYVRA	EVALUATING INSECTICIDE PROGRAMS FOR CORN EARWORM CONTROL IN PROCESSING SWEET CORN	92766	\$21,205
NYROP, JAN P	CALS Cornell AgriTech Fin & Operating	NYS (AGMRKT)	GENEVA EXT. STATION-HOPS EVAL. TESTING (2019-2020)	91981	\$400,000
PARPIA, JEEVAK N	Lab. of Atomic & Solid State Physics	NSF (NSF MPS)	SEARCH FOR NEW PHASES OF THE EXOTIC SUPERFLUID 3HE UNDER NANOCONFINEMENT	91562	\$490,000
PASS, RAFAEL N	Tech Research	JPMORGANCHASE	CRYPTML: CRYPTOGRAPHIC MACHINE LEARNING	93015	\$150,000
PETHYBRIDGE, SARAH J	CALS School of Integrative Plant Science	NYVRA	EVALUATION OF ALTERNATIVES TO QUADRIS FOR EARLY SEASO AND ROOT DISEASE CONTROL OF TABLE BEET IN NEW YORK: YEAR 2 (2020/21)	92820	\$22,922
PETHYBRIDGE, SARAH J	CALS School of Integrative Plant Science	NYVRA	MANIPULATING CARROT GROWTH THROUGH PLANT GROWTH REGULATORS	92789	\$9,924
PETHYBRIDGE, SARAH J	CALS School of Integrative Plant Science	NYVRA	MANAGEMENT OF TABLE BEET GROWTH AND HEALTH THROUGH PLANT GROWTH REGULATORS	92769	\$24,294
RANGARAJAN, ANUSUYA	CALS School of Integrative Plant Science	U OF MAINE	BUILDING SOCIAL SUSTAINABILITY ON FARMS THROUGH ONLINE AND IN - PERSON EDUCATION	88283	\$1,466
REED, KRISTAN FOSTER	CALS Animal Science	DMI	POSTDOCTORAL RESEARCH FELLOW FOR THE RUMINANT FARM SYSTEMS MODEL (RUFAS) – YEAR 2	92877	\$100,000
REINERS, STEPHEN	CALS School of Integrative Plant Science	NYVRA	NYS PROCESSING SNAP BEAN, GREEN PEA AND SWEET CORN VARIETY EVALUATIONS	92840	\$45,744
ROEDER, ADRIENNE H K	Weill Institute	DHHS (NIH-NIH NIGMS)	MECHANISMS OF ROBUSTNESS IN ORGANOGENESIS	90528	\$1,256,672
ROSSI, FRANK S	CALS School of Integrative Plant Science	NYS (NYS PARKS & REC)	REDUCED RISK GOLF COURSE MANAGEMENT	85475	\$79,799
RUDSTAM, LARS G	CALS Natural Resources	NOTRE DAME	DNA BARCODE REFERENCE LIBRARY - ZOOPLANKTON	82351	\$21,630
RYD, ANDERS	Cornell Lab Accelerator Sciences & Ed	PRINCETON U	U.S. CMS OPERATIONS AT THE LHC (SOFTWARE & COMPUTING SUBSYSTEMS)	78877	\$342,279
RYD, ANDERS	Cornell Lab Accelerator Sciences & Ed	NSF	U.S. CMS UPGRADES FOR THE HL-LHC	79433	\$77,225,000

SCANLON, MICHAEL J	CALS School of Integrative Plant Science	NSF (NSF BIO)	RESEARCH-PGR: SINGLE-CELL TRANSCRIPTOMIC ANALYSES OF SHOOT MERISTEM ONTOGENY AND FUNCTION	92154	\$1,872,879
SETHI, SURESH ANDREW	CALS Natural Resources	NYS (NYS DEC)	RETURNING NATIVE FISH COMMUNITIES TO INLAND ECOSYSTEMS OF THE NORTHEAST: COREGONINE RESTORATION IN KEUKA LAKE	89263	\$228,175
SHEA, ASHLEY L.	Mann Library	USDA (NATL AG STATS)	DISSEMINATION AND PRESERVATION OF DIGITAL AGRICULTURAL ECONOMIC DATA, STATISTICS AND MARKET INFORMATION ACROSS SEVERAL STATISTICAL AGENCIES IN USDA	81694	\$232,831
SOLECKI, SLAWOMIR	Mathematics	NSF	DEFINABLE EQUIVALENCE RELATIONS AND DYNAMICS, TOPOLOGICAL AND MEASURABLE, OF POLISH GROUPS	91155	\$325,000
SORRELLS, MARK E	CALS School of Integrative Plant Science	NEW WORLD	HUDSON VALLEY SMALL GRAINS VARIETY RESEARCH AND COMMERCIALIZATION TRIALS	92886	\$122,158
SORRELLS, MARK E	CALS School of Integrative Plant Science	U OF CAL (UC DAVIS)	COORDINATED AGRICULTURAL PROJECT (WHEATCAP): VALIDATION, CHARACTERIZATION AND DEPLOYMENT OF QTL FOR GRAIN YIELD COMPONENTS IN WHEAT	79571	\$177,778
SORRELLS, MARK E	CALS School of Integrative Plant Science	JEFFERSON CTY (CCE JEFFERSON)	EVALUATION OF MALTING BARLEY VARIETIES FOR PRODUCTION IN NORTHERN NEW YORK	91457	\$19,718
SOSNOSKIE, LYNN M	CALS School of Integrative Plant Science	NYVRA	WEED CONTROL IN PROCESSING VEGETABLES	92841	\$31,484
STACEY, GORDON J	Center Astrophysics-Planetary Science	USRA	FIFI-LS SPECTROSCOPY OF NEARBY IR BRIGHT GALAXIES: TRACING STELLAR POPULATIONS; THE O/N ABUNDANCE RATIO; AND ABSOLUTE ABUNDANCES	93018	\$52,000
STEINSCHNEIDER, SCOTT	CALS Biological & Environmental Engr	CARY INSTITUTE	CATCHMENT SCALE MODELING OF STREAM CHANNEL MORPHODYNAMICS AND SEDIMENT FLUX TO UNDERSTAND STREAM RESTORATION EFFECTIVENESS IN THE STONY CLOVE WATERSHED	92151	\$10,887
STEINSCHNEIDER, SCOTT	CALS Biological & Environmental Engr	SUNYRF (SUNYRF STONY BROOK)	CLIMATE-SMART FLOOD RISK PLANNING FOR COASTAL COMMUNITIES ON LAKE ONTARIO	83872	\$300
STRICHARTZ, ROBERT S	Mathematics	NSF	CORNELL 7TH CONFERENCE ON ANALYSIS, PROBABILITY, AND MATHEMATICAL PHYSICS ON FRACTALS	91279	\$49,950
TURNER, ANDREW S	Bronfenbrenner Ctr forTranslational Rsch	MMSA	NYS 4-H ACRES: TRANSFORMING RURAL COMMUNITIES: VIRTUAL INSTRUCTIONAL COACHING IN AFTERSCHOOL AND LIBRARY PROGRAMS	92913	\$5,000
VIRKLER, PAUL DOUGLAS	Population Medicine & Diagnostic Science	JEFFERSON CTY (CCE JEFFERSON)	PHASE II: E-LEARNING TRAINING SYSTEM AS AN EDUCATIONAL APPROACH FOR DAIRY FARM WORKERS AND ITS EFFECTS ON MILK QUALITY AND PARLOR PERFORMANCE - EFFECT OF MILKING EQUIPMENT ON TEAT END HEALTH	91711	\$49,030
WAGNER, AARON B	Electrical & Computer Engineering	NSF	CIF:SMALL:EAGER:BRIDGING THE THEORY-PRACTICE DIVIDE IN MULTIMEDIA COMPRESSION	91854	\$42,949
WARNER, DING XIANG	Asian Studies	ACLS	LOST NARRATIVES OF THE GREAT WAR: TRENCH ART OF THE CHINESE LABOUR CORPS	93068	\$75,000
WHITE, ANDREW C	Biomedical Sciences	DHHS (NIH)	REGULATORS OF MELANOCYTE STEM CELL MIGRATION AND MELANOMA INITIATION IN RESPONSE TO CUTANEOUS UVB IRRADIATION	90490	\$1,461,911
WOLCZANSKI, PETER T	Chemistry and Chemical Biology	NSF	CAN THE IONIC CHARACTER OF 1ST ROW AND THE COVALENCY OF 2ND AND 3RD ROW TRANSITION METALS CONVERGE?	91313	\$760,000
WOODBURY, PETER B	CALS School of Integrative Plant Science	NYS (NYS DEC)	AGRICULTURAL GREENHOUSE GAS ASSESSMENT	90443	\$500,000
XU, CHRIS (CHUNHUI)	Applied & Engineering Physics	U OF ROCHESTER	VERSATILE FEMTOSECOND TECHNOLOGY FOR ADAPTIVE MULTIPHOTON IMAGING	89206	\$479,320

ZHANG, KE MAX	Mechanical & Aerospace Engineering	NESCAUM	DEVELOPING A NEW BUILDING DOWNWASH ALGORITHM FOR 93011 AERMOD	\$100,000
ZIMMERMAN, RAY D	Dyson - Sponsored Activity	RESOURCES/FTR	PROJECTED EFFECTS OF TECHNOLOGY INNOVATION ON POWER SECTOR EMISSIONS AND COSTS	\$6,273