

**Cornell University, Office of Sponsored Programs  
Awards Received in January 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                     | MCCAIN                     | FLAVOR/TASTE DEVELOPMENT IN MCCAIN POTATO PRODUCTS THROUGH DESIGNING, OPTIMIZING THE REACTION AND INFUSION OF RELEVANT FLAVOR/TASTE PRECURSOR MOLECULES: GATEWAY L1 | 91036       | \$189,200     |
| ANDO, NOZOMI                  | Chemistry and Chemical Biology        | NSF                        | CAREER: CORRELATED MOTIONS IN PROTEIN ALLOSTERY   | 90727       | \$961,076     |
| BARON, MATTHEW                | Johnson - Sponsored Activity          | INET                       | NEW EVIDENCE ON THE ORIGINS OF CREDIT BOOMS AND THE CAUSES OF BANKING CRISES  | 89229       | \$80,000      |
| BIHN, ELIZABETH               | CALS Food Science                     | NYS (AGMRKT)               | CORNELL UNIVERSITY PSA GROWER TRAINING COURSE   | 91030       | \$50,000      |
| BRITO, ILANA L                | Biomedical Engineering                | YALE                       | MICROBIOME BIOLOGY AND SOCIAL NETWORKS IN THE DEVELOPING WORLD  | 89353       | \$457,789     |
| BROCK, JOEL D                 | Cornell Lab Accelerator Sciences & Ed | LLNL                       | IN-SITU HIGH ENERGY X-RAY EXPERIMENTS IN SUPPORT OF CRYSTAL PLASTICITY MODELING OF ADDITIVELY MANUFACTURED ENGINEERING ALLOYS                                       | 91944       | \$80,337      |
| BUCHON, NICOLAS S             | CALS Entomology                       | DHHS (NIH)                 | THE TASTE AND SMELL OF INTESTINAL STEM CELLS AND ITS IMPACT ON PROLIFERATION AND LIFESPAN   | 89450       | \$431,750     |
| CAMPOS-MEDINA, PATRICIA       | Industrial & Labor Relations Ext Orgs | NYS (NYS LABOR)            | NEW YORK STATE AFL-CIO/ CORNELL UNION LEADERSHIP INSTITUTE 2017-2018  | 87903       | \$150,000     |
| CASASOLA, MARIANELLA          | Human Development                     | FIU                        | MULTISENSORY DEVELOPMENT: NEW MEASURES AND A COLLABORATIVE DATABASE   | 83719       | \$15,700      |
| CERIONE, RICHARD A            | Cornell Lab Accelerator Sciences & Ed | NYS (NYSTAR)               | MACCHES NYSTAR MATCHING FUNDS   | 88089       | \$2,353,000   |
| DE VLAMINCK, IWIJN            | Biomedical Engineering                | DHHS (NIH-NIH NIAID)       | EPIGENETIC PROFILING OF CIRCULATING CELL-FREE DNA FOR THE MONITORING OF GRAFT-VERSUS-HOST DISEASE AFTER HEMATOPOIETIC CELL TRANSPLANTATION                          | 90592       | \$3,447,151   |
| DEITCHER, DAVID               | Neurobiology and Behavior             | U OF PITTSBURGH            | A NEW METHOD FOR IMAGING NEUROPEPTIDE RELEASE IN THE BRAIN  | 89201       | \$38,715      |
| DISTASIO, ROBERT ANTHONY      | Chemistry and Chemical Biology        | NSF                        | CAREER: ACCURATE, RELIABLE, AND ROUTINE FIRST PRINCIPLES PREDICTION OF THE STRUCTURE AND STABILITY OF MOLECULAR CRYSTAL POLYMORPHS                                  | 90760       | \$650,000     |
| EALICK, STEVEN E              | Chemistry and Chemical Biology        | NE-CAT                     | MEMORANDUM OF UNDERSTANDING - NORTHEAST COLLABORATIVE ACCESS TEAM (NE-CAT)  | 42734       | \$1,250,000   |
| FUCHS, GREGORY D              | Applied & Engineering Physics         | US INTERIOR                | MATERIALS FOR SCALABLE MAGNETIC SKYRMION MEMORY TECHNOLOGIES  | 85692       | \$299,980     |
| GADIKOTA, GREESHMA            | Civil & Environmental Engineering     | U OF UTAH                  | MULTI-SCALE FLUID-SOLID INTERACTIONS IN ARCHITECTED AND NATURAL MATERIALS (MUSE)  | 90815       | \$40,000      |
| GANGLOFF-KAUFMANN, JODY       | CALS NYS Integrated Pest Management   | NYS (NYS HEALTH)           | A TICK OUTREACH PROJECT THROUGH CORNELL COOPERATIVE EXTENSION IN NEW YORK (2019-2020)   | 91899       | \$50,000      |
| GAO, HUAIZHU                  | Civil & Environmental Engineering     | US DOT                     | CENTER FOR TRANSPORTATION, ENVIRONMENT, AND COMMUNITY HEALTH (CTECH)  | 79841       | \$1,420,000   |
| GIORDANO, JULIO O             | CALS Animal Science                   | ZOETIS                     | EVALUATION OF THE SMARTBOW SYSTEM FOR REPRODUCTIVE AND HEALTH MANAGEMENT OF DAIRY CATTLE  | 91670       | \$319,949     |
| HARE, MATTHEW P.              | CALS Natural Resources                | RUTGERS (RUTGERS - NEWARK) | FROM SEQUENCE TO CONSEQUENCE: GENOMIC SELECTION TO EXPAND AND IMPROVE SELECTIVE BREEDING FOR THE EASTERN OYSTER   | 89833       | \$125,512     |
| HARGRAVES, MONICA J           | Policy Analysis and Management        | MONTCLAIR                  | BUILDING CHARACTER IN YOUTH THROUGH A GAME-BASED SOLUTION TO A COMMUNITY CHALLENGE  | 91431       | \$63,087      |

|  |   |  |  |                |                        |
|--|---|--|--|----------------|------------------------|
| HASSANI, MOSTAFA                               | Mechanical & Aerospace Engineering                                    | HF WEBSTER ENGINEERING                 | ADDITIVE MANUFACTURING AND ADVANCED MATERIALS PROCESSING FOR THE DOD   | 91253          | \$100,000              |
| HOLMES, NATASHA GRACE                          | Lab. of Atomic & Solid State Physics                                  | STANFORD U                             | CREATING A NEW ASSESSMENT TOOL FOR QUANTITATIVE CRITICAL THINKING IN INTRODUCTORY LAB COURSES  | 81056          | \$9,241                |
| HWANG, JAMES C.                                | Materials Science Engineering   | LEHIGH U                               | IMPEDANCE SPECTROSCOPY OF NEURON EXCITABILITY UNDER ELECTROMAGNETIC STIMULATION  | 91038          | \$675,000              |
| KALLUS, NATHAN                                 | Tech Research   | NSF                                    | FAI: AUDITING AND ENSURING FAIRNESS IN HARD-TO-IDENTIFY SETTINGS   | 90311          | \$381,838              |
| KETTERINGS, QUIRINE                            | CALS Animal Science   | NYS (NYS DEC)                          | DEVELOPMENT OF A YIELD-ADJUSTED CORN N EQUATIONS FOR GRAIN AND SILAGE THROUGH THE NY ON-FARM RESEARCH PARTNERSHIP                                | 90255          | \$46,000               |
| KLING, CATHERINE LOUISE                        | CALS AEM  | U OF WISCONSIN SYS (U WISC MADISON)    | INTEGRATED ASSESSMENT MODELS FOR WATER QUALITY VALUATION: APPLICATION TO NRCS CONSERVATION INITIATIVES   | 88037          | \$70,000               |
| LEHMANN, JOHANNES                              | CALS School of Integrative Plant Science                              | NYS (NYSERDA)                          | ON-FARM PYROLYSIS OF WASTE BIOMASS TO ADVANCE AGRICULTURAL ENERGY TECHNOLOGIES   | 89208          | \$1,000,000            |
| LEWIS, NIKOLE K.                               | Center Astrophysics-Planetary Science                                 | NASA (JPL)                             | DEVELOPMENT OF A 2D CIRCULATION MODEL FOR RAPID EXPLORATION OF EXOPLANET ATMOSPHERES   | 89576          | \$54,281               |
| LUNINE, JONATHAN<br>MAHOWALD, NATALIE          | Center Astrophysics-Planetary Science<br>Earth & Atmospheric Sciences | JOHNS HOPKINS UNIV (APL)<br>NASA (JPL) | ENCELADUS FLAGSHIP MISSION CONCEPT<br>EARTH SURFACE MINERAL DUST SOURCE INVESTIGATION (EMIT)   | 90105<br>88424 | \$5,723<br>\$75,000    |
| MAROHN, JOHN                                   | Chemistry and Chemical Biology  | NSF                                    | SCANNED-PROBE CHARACTERIZATION OF CHARGE GENERATION, RECOMBINATION, AND MOTION IN ORGANIC SEMICONDUCTORS   | 81788          | \$34,121               |
| MCMAHON, PETER                                 | Applied & Engineering Physics   | NTT                                    | QUANTUM PRINCIPLES AND CONSTRUCTION OF COHERENT NETWORK COMPUTERS  | 89545          | \$400,000              |
| MELLON, MICHAEL T                              | Center Astrophysics-Planetary Science                                 | U OF ARIZONA                           | HIRISE: HIGH RESOLUTION IMAGING SCIENCE EXPERIMENT, INVESTIGATOR   | CO- 87369      | \$50,000               |
| MILLER, ANDREW D                               | Biomedical Sciences   | AKC CHF                                | TRANSCRIPTIONAL PROFILING OF CANINE SOFT TISSUE SARCOMA  | 91005          | \$132,759              |
| MOSES, JEFFREY A                               | Applied & Engineering Physics   | NSF                                    | CAREER: BACK-CONVERSION SUPPRESSED PARAMETRIC FREQUENCY CONVERSION: NONLINEAR EVOLUTION DYNAMICS FOR OVERCOMING LONGSTANDING DEVICE LIMITATIONS  | 90522          | \$500,000              |
| MUTOLO, PAUL FREDERICK<br>NIEDERDEPPE, JEFFREY | Center for Alkaline Based Solutions<br>CALS Communication             | NYS (ESD)<br>WESLEYANU                 | CENTER FOR ALKALINE BASED ENERGY SOLUTIONS (CABES) MEDIA RESEARCH SYNTHESIS TO BUILD A CULTURE OF HEALTH   | 86753<br>91642 | \$621,875<br>\$96,963  |
| NISHII, LISA H<br>NISHIMURA, NOZOMI            | Office of Academic Diversity Initiatives<br>Biomedical Engineering    | US DEPT OF EDU<br>DHHS (NIH)           | CORNELL UNIVERSITY MCNAIR PROGRAM<br>NEURAL ACTIVITY UNDERLYING RAPID BEHAVIORAL RECOVERY AFTER BLOOD FLOW IMPROVEMENT IN ALZHEIMER MOUSE MODELS | 83280<br>89354 | \$10,895<br>\$423,231  |
| PECK, GREGORY M<br>PETERS, JOSEPH              | CALS School of Integrative Plant Science<br>CALS Microbiology         | NYS (AGMRKT)<br>FLAGSHIP PIONEERING    | HARD CIDER RESEARCH (2019-2020)<br>DISCOVERING AND CHARACTERIZING CRISPR/CAS ASSOCIATED MOBILE ELEMENTS FOR PROGRAMMABLE DNA INTEGRATION         | 89805<br>91982 | \$200,000<br>\$200,000 |
| PETHYBRIDGE, SARAH J                           | CALS School of Integrative Plant Science                              | PENN STATE                             | INTEGRATED MANAGEMENT OF EMERGING SEEDBORNE BACTERIAL DISEASES OF CUCURBITS AND CHENOPODS (IMDCC)  | 89965          | \$269,907              |

|                               |  |                             |  |       |           |
|-------------------------------|--|-----------------------------|--|-------|-----------|
| RAHM, BRIAN GRAMLICH          | CALS Biological & Environmental Engr     | US INTERIOR (USGS)          | WATER RESOURCES RESEARCH NATIONAL COMPETITIVE GRANTS PROGRAM 2019  | 89767 | \$180,335 |
| RILEY, TIMOTHY R              | Mathematics                              | NSF                         | GEOMETRIC AND ASYMPTOTIC GROUP THEORY WITH APPLICATIONS 2020 MEETING   | 91280 | \$30,000  |
| ROBINSON, RICHARD D           | Materials Science Engineering            | NSF                         | ELECTROPHORETIC DEPOSITION OF TERNARY METAL SULFIDE ELECTROCHEMICAL ELECTRODES WITH TUNABLE PORE STRUCTURE   | 90572 | \$549,863 |
| RUSH, ALEXANDER MATTHEW       | Tech Research                            | AMAZON                      | AWS COMPUTING GRANT: GENERATING COHERENT AND ACCURATE TEXTUAL DESCRIPTIONS   | 92234 | \$50,000  |
| SAMPSON, ADRIAN LEWIS DEQUINE | Computer Science                         | U OF MICHIGAN               | TYPE-DRIVEN SYNTHESIS OF HARDWARE-SOFTWARE INTERFACES  | 86665 | \$200,000 |
| SAVRANSKY, DMITRY             | Mechanical & Aerospace Engineering       | NASA (JPL)                  | ADVANCED SIMULATION AND MODELING FOR STARSHADE-BASED EXOPLANET IMAGING MISSIONS  | 86286 | \$46,958  |
| SCHLOM, DARRELL               | Materials Science Engineering            | NOTRE DAME                  | APPLICATIONS AND SYSTEMS DRIVEN CENTER FOR ENERGY-EFFICIENT INTEGRATED NANOTECHNOLOGIES (ASCENT)   | 83003 | \$1       |
| SCHULER, KRYSTEN              | Population Medicine & Diagnostic Science | SCDNR                       | SOUTH CAROLINA CWD RISK ASSESSMENT AND SURVEILLANCE PLAN   | 92180 | \$20,296  |
| SCHULER, KRYSTEN              | Population Medicine & Diagnostic Science | GDNR                        | GEORGIA CWD RISK ASSESSMENT AND SURVEILLANCE PLAN  | 91536 | \$20,296  |
| SCHWARZ, ERICH                | CALS Molecular Biology & Genetics        | UMASS (UMASS MED)           | A DUAL PURPOSE VACCINE TARGETING BLOOD-FEEDING NEMATODE PARASITES OF SHEEP AND HUMANS  | 88164 | \$38,052  |
| SHEPHERD, ROBERT F            | Mechanical & Aerospace Engineering       | ISRAEL (ISRAELI MINISTRY)   | RESEARCH REGARDING LEVERAGING FLOW AND BI-STABILITY ELASTIC STRUCTURES TO MODIFY THE TEXTURE   | 90439 | \$100,000 |
| SHEPPARD, SAMANTHA NOELLE     | Performing and Media Arts                | THE KING'S COLLEGE          | GALSWORTHY CRIMINAL JUSTICE REFORM   | 92044 | \$10,000  |
| SIPPLE, JOHN W                | CALS Global Development                  | HARVARD U                   | THE NATIONAL CENTER ON RURAL EDUCATION RESEARCH NETWORKS   | 87473 | \$203,267 |
| SKINNER, LARA R               | Industrial & Labor Relations Ext Orgs    | NYS (NYS LABOR)             | GENERAL SUPPORT FOR THE WORKER INSTITUTE AT CORNELL UNIVERSITY'S SCHOOL OF INDUSTRIAL AND LABOR RELATIONS  | 84368 | \$300,000 |
| SMITH EINARSON, MARGARET E    | CALS Global Development                  | WACCI                       | WACCI LIBRARY AND SCIENTIFIC WRITING TRAINING (2020)   | 92140 | \$19,505  |
| THAYER, CHERYL B              | CALS Cornell Cooperative Extension       | USDA (AMS)                  | FARM TO INSTITUTION EXPANSION IN WESTERN NY  | 90449 | \$542,321 |
| UMRIGAR, CYRUS J              | Lab. of Atomic & Solid State Physics     | VIRGINIA TECH               | YUAN YAO MOLECULAR SCIENCES SOFTWARE INSTITUTE (MOISSI) FELLOWSHIP: IMPROVING BASIS SET CONVERGENCE IN SHCI  | 92030 | \$27,374  |
| UPTON, JOANNA BETH            | CALS AEM                                 | CATHOLIC RELIEF             | MEASUREMENT INDICATORS FOR RESILIENCE ANALYSIS (MIRA) EXPANDING BEST PRACTICES AND PARTNERSHIPS FOR HIGH-FREQUENCY DATA COLLECTION AND RESILIENCE ANALYSIS | 92254 | \$37,304  |
| VANDEN HEUVEL, JUSTINE E      | CALS School of Integrative Plant Science | SUNY (SUNY RF-U OF BUFFALO) | PREDICTING SOIL CATION EXCHANGE CAPACITY TO ENHANCE VINEYARD MANAGEMENT PRACTICES  | 88633 | \$32,442  |
| VILHUBER, LARS                | Industrial & Labor Relations Ext Orgs    | AEA                         | DATA EDITOR FOR THE AMERICAN ECONOMIC ASSOCIATION  | 85946 | \$198,504 |
| WATKINS, JAMES                | CALS Natural Resources                   | US INTERIOR (USGS)          | STATUS OF LOWER FOODWEB OF LAKE ONTARIO IN 2018  | 87123 | \$78,975  |
| WEBER, COURTNEY               | CALS School of Integrative Plant Science | NYS (AGMRKT)                | BERRY RESEARCH 2019-2020   | 90491 | \$260,000 |
| WEISS, ROBERT S               | Biomedical Sciences                      | DHHS (NIH-NIH NCI)          | THE ROLE OF THE DNA DAMAGE RESPONSE IN THE DEVELOPMENT AND THERAPEUTIC SENSITIVITY OF MALIGNANT TESTICULAR GERM CELL TUMORS                                | 89792 | \$262,611 |

|                            |  |                             |  |       |           |
|----------------------------|--|-----------------------------|--|-------|-----------|
| WHITLOCK, JANIS L          | Bronfenbrenner Ctr forTranslational Rsch | HEALTH RESEARCH             | TESTING THE EFFICACY OF A STRENGTHS-BASED CURRICULUM FOR RISK REDUCTION FOR SEXUAL VIOLENCE AMONG MIDDLE SCHOOL BOYS: TESTING THE EFFICACY OF A STRENGTHS-BASED CURRICULUM FOR FUTURE SEXUAL VIOLENCE PERPETRATION | 80058 | \$478,183 |
| WIEDMANN, MARTIN           | CALS Food Science                        | MARS                        | SPONSORED SERVICE AGREEMENT  | 91962 | \$20,000  |
| WOOD, CHRISTOPHER LEIGHTON | CALS Lab of O - Programs                 | SPNI                        | BREEDING BIRD ATLAS AGREEMENT WITH ISRAEL  | 91992 | \$93,500  |
| WOROBO, RANDY W            | CALS Food Science                        | MANUS BIO                   | SPONSORED TESTING AGREEMENT  | 91957 | \$15,000  |
| XING, HUILI GRACE          | Electrical & Computer Engineering        | CIS                         | ALGAN/ALN TECHNOLOGIES USING SINGLE CRYSTAL ALN SUBSTRATES   | 87669 | \$50,000  |
| XING, HUILI GRACE          | Electrical & Computer Engineering        | CIS                         | ALN HEMT TECHNOLOGIES USING SINGLE-CRYSTAL ALN SUBSTRATES  | 92147 | \$150,000 |
| XU, KENONG                 | CALS School of Integrative Plant Science | OKANAGAN BIOTECHNOLOGY INC. | FIELD TRIAL ACTIVITIES   | 47057 | \$13,786  |