

July 25, 2019

The Office of Research and Economic Development is pleased to announce awards received by UNC Charlotte Researchers in the month of June, 2019.

Total amount awarded for the month of June was \$6,982,871

Fiscal Year To Date Total: \$51,008,661

Award Title	Amount	Investigators	PI Dept.	Sponsors
2019 Freedom School Assessment Project	\$50,274	Principal Investigator (PI): Taylor, David	Reading and Elementary Education	Sponsor: Freedom School Partners
2019-2020 NC Coaching, Mentoring, Performance Evaluation and Professional Development for Birth through Kindergarten Licensed Teachers Employed in Non-Public School Classrooms	\$1,921,798	Principal Investigator (PI): Lambert, Richard	Educational Leadership	Sponsor: North Carolina Department of Health and Human Services (NCDHHS)
2019-2020 Regional EC Education Consultant and State Performance Plan Consultant	\$401,904	Principal Investigator (PI): Anderson, Kelly	Special Education and Child Development	Sponsor: North Carolina Department of Public Instruction (NCDPI) Prime Sponsor: US Department of Education (DOED)
Academy for Population Health Operational Funding	\$276,980	Principal Investigator (PI): Dulin, Michael	Deans Office College of Health and Human Services	Sponsor: Mecklenburg County Health Department
An Adaptable Solar Window toward a Sustainable Energy Future	\$50,000	Principal Investigator (PI): Zhang, Dan	School of Architecture	Sponsor: National Science Foundation (NSF)
Applied Spectral Problems in Population Dynamics, Bio-Physics and Physical Chemistry	\$79,074	Principal Investigator (PI): Molchanov, Stanislav Co-PI: Vainberg, Boris	Mathematics and Statistics	Sponsor: National Science Foundation (NSF)

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Breaking Bread: German Experiences of Food and War in Transnational Context	\$3,222	Principal Investigator (PI): Perry, Heather	History	Sponsor: University of Melbourne
CAREER: Integrative Approaches to Uncovering Complex Genotype-Phenotype Relationships in High Dimensional Genomics Data	\$112,132	Principal Investigator (PI): Shi, Xinghua	Bioinformatics and Genomics	Sponsor: National Science Foundation (NSF)
Charlotte Biology and Biotechnology Exchange Group-AY19-20	\$4,500	Principal Investigator (PI): Yan, Shan	Biological Sciences	Sponsor: North Carolina Biotechnology Center (NCBC)
Charlotte Biomedical 2019	\$3,000	Principal Investigator (PI): Lee, Charles	Mechanical Engineering and Engineering Science	Sponsor: North Carolina Biotechnology Center (NCBC)
Chem101 (North Carolina Research Campus)	\$3,000	Principal Investigator (PI): Brouwer, Cory	Bioinformatics and Genomics	Sponsor: North Carolina Biotechnology Center (NCBC)
Clean Fuel Advanced Technology (CFAT) Outreach, Awareness, and Subawards Program	\$41,584	Principal Investigator (PI): Facente, Christopher	Facilities Management	Sponsor: North Carolina State University (NCSSU) Prime Sponsor: Federal Highway Administration (FHWA)
Collaborative Proposal: CyberTraining: Pilot: Aligning Learning Materials with Curriculum Standards to Integrate Parallel and Distributed Computing Topics in Early Computer Science Education	\$249,469	Principal Investigator (PI): Saule, Erik Co-PI: Subramanian, Kalpathi	Computer Science	Sponsor: National Science Foundation (NSF)
Community Link Service Utilization - Phase 2	\$10,530	Principal Investigator (PI): Lane, Justin	Urban Institute	Sponsor: Community Link

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Computational Model for Spacecraft/Habitat Volume	\$90,000	Principal Investigator (PI): Hsiang, Simon Co-PI: Lim, Churlzu	Systems Engineering and Engineering Management	Sponsor: NASA Johnson Space Center
CyberBRICS Fellowship	\$13,800	Principal Investigator (PI): Jiang, Min	Communication Studies	Sponsor: Fundação Getulio Vargas (FGV) Rio de Janeiro Law School
Determination of Electrical and Geometrical Characteristics of Mine-Like and IED-Like Targets Using New Globally Convergent Inverse Algorithms	\$114,879	Principal Investigator (PI): Klibanov, Mikhail Co-PI: Astratov, Vasily	Mathematics and Statistics	Sponsor: DOD DA Army Research Office (ARO)
Development of an End-to-End Deep Learning System for Adaptive Cruise Control	\$2,000	Principal Investigator (PI): Ghasemi, Amirhossein Co-PI: Tabkhivayghan, Hamed	Mechanical Engineering and Engineering Science	Sponsor: Ford Motor Company
Diagnosing Thunderstorm-Induced Power Outages	\$18,470	Principal Investigator (PI): Eastin, Matthew	Geography and Earth Sciences	Sponsor: Duke Energy Corporation
Displace, Return, and Reconstruct: Population Movement and Resilience to Instability	\$410,000	Principal Investigator (PI): Walsh, James Co-PI: Thill, Jean-Claude	Political Science and Public Administration	Sponsor: Department of Defense (DOD)
Department of State (DOS) English Language Specialist Award to Tunisia and Morocco July 2019	\$11,064	Principal Investigator (PI): Salas, Spencer	Middle, Secondary and K-12 Education	Sponsor: Georgetown University Prime Sponsor: Department of State (DOS)
DURIP: Ultra-Precision Freeform Optics Generator for Space Situational Awareness and Surveillance	\$946,716	Principal Investigator (PI): Davies, Matthew Co-PIs: Owen, Joseph; Suleski, Thomas	Mechanical Engineering and Engineering Science	Sponsor: DOD DAF Air Force Office of Scientific Research (AFOSR)

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Emotion Regulation, Attitudes, and Activism in Extraordinary Times	\$29,808	Principal Investigator (PI): Maestas, Cherie Co-PI: Levens, Sara	Political Science and Public Administration	Sponsor: National Science Foundation (NSF)
Engaging Military Veterans to Increase Engineering Enrollment and BS, MS and PhD Degrees Awarded	\$250,000	Principal Investigator (PI): Tkacik, Peter Co-PIs: Lim, Jae Hoon; Tarbutton, Joshua; Goudarzi, Navid; Keanini, Russell	Mechanical Engineering and Engineering Science	Sponsor: DOD DN Office of Naval Research (ONR)
EPIC Affiliates Industry Memberships for Seed Funded Projects	\$45,000	Principal Investigator (PI): Kopitopoulou, Christina	Energy Production and Infrastructure Center (EPIC)	Sponsor: LS Energy Solutions
Epigenetics	\$4,400	Principal Investigator (PI): Hull, Gordon	Philosophy	Sponsor: North Carolina Biotechnology Center (NCBC)
Evaluating the Impact of a Goal Setting Intervention Program with Grandparents Raising their Grandchildren	\$14,124	Principal Investigator (PI): Montoro-Rodriguez, Julian	Deans Office College of Health and Human Services	Sponsor: Southminster Inc.
Evaluation of a Novel Method for Determining County-Level Changes in Pre-Exposure Prophylaxis Usage	\$77,813	Principal Investigator (PI): Robinson, Patrick	Deans Office College of Health and Human Services	Sponsor: Gilead Sciences, Inc.
Focal Point Analysis for Trusting Machine Learning	\$3,000	Principal Investigator (PI): Dou, Wenwen	Computer Science	Sponsor: DOE Pacific Northwest National Laboratory (PNNL) Prime Sponsor: Department of Energy (DOE)
Funds to Finish Index and Intervention: Identifying Students with Financial and Academic Planning Risk and Intervening to Promote Timely Graduation	\$215,000	Principal Investigator (PI): Smail, John	Undergraduate Education	Sponsor: University of North Carolina System Office (UNC SysOff)

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Gaston County Public Service Fellowship	\$24,737	Principal Investigator (PI): Barth, Thomas	Political Science and Public Administration	Sponsor: Gaston County
IPA with DARPA to serve as Program Manager in the Defense Sciences Office	\$272,439	Principal Investigator (PI): Fiddy, Michael	Physics and Optical Science	Sponsor: DOD Defense Advanced Research Projects Agency (DARPA)
Mecklenburg ReCAST Community Trauma Program Evaluation	\$111,086	Principal Investigator (PI): Kulkarni, Shanti Co-PI: Waites Spellman, Cheryl	School of Social Work	Sponsor: Charlotte Mecklenburg County Prime Sponsor: Substance Abuse and Mental Health Services Administration (SAMHSA)
Microalgae Building Enclosures for Bio-Energy and Carbon Sink	\$50,000	Principal Investigator (PI): Kim, Kyoung-Hee Co-PI: Wu, Chengde	School of Architecture	Sponsor: National Science Foundation (NSF)
MPA Public Service Fellowship with Charlotte Regional Business Alliance	\$22,494	Principal Investigator (PI): Barth, Thomas	Political Science and Public Administration	Sponsor: Charlotte Regional Business Alliance
NSF-BSF: Quantifying Climate-Dependent Mechanical Weathering and Subcritical Cracking Over Geological Time	\$201,347	Principal Investigator (PI): Eppes, Martha Co-PI: Keanini, Russell	Geography and Earth Sciences	Sponsor: National Science Foundation (NSF)
Petrographic Examination of Concrete Foundations	\$5,001	Principal Investigator (PI): Cavalline, Tara	Engineering Technology and Construction Management	Sponsor: Electric Power Research Institute (EPRI)
Phase II IUCRC UNC Charlotte Site: Center for Visual and Decision Informatics (CVDI)	\$101,523	Principal Investigator (PI): Hadzikadic, Mirsad Co-PIs: Thill, Jean-Claude; Shehab, Mohamed; Dou, Wenwen; Ras, Zbigniew	Software and Information Systems	Sponsor: National Science Foundation (NSF)

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Phytochemical Based Soybean Cyst Nematode Management	\$100,000	Principal Investigator (PI): Song, Bao-Hua	Biological Sciences	Sponsor: North Carolina Biotechnology Center (NCBC)
Protein Markers to Islet Autoimmunity and Type 1 Diabetes Progression	\$27,095	Principal Investigator (PI): Sha, Wei	Bioinformatics and Genomics	Sponsor: University of North Carolina at Greensboro (UNCG) Prime Sponsor: National Institutes of Health (NIH)
PTAC - DLA 2019-20	\$89,326	Principal Investigator (PI): McIntire, Robin	Small Business Technology Development Center (SBTDC)	Sponsor: North Carolina Small Business and Technology Development Center (NC SBTDC) Prime Sponsor: DOD Defense Logistics Agency
Public Service Fellowship Arts and Science Council	\$20,703	Principal Investigator (PI): Barth, Thomas	Political Science and Public Administration	Sponsor: Arts and Science Council (ASC)
Serving All Who Served: Further Implementation and Spread of an LGBT Veteran Health Education Program in the Veterans Affairs Health Administration	\$12,373	Principal Investigator (PI): Cramer, Robert	Public Health Sciences	Sponsor: Tuscaloosa Veterans Affairs Medical Center
SHARE Charlotte Evaluation - Surveys	\$4,000	Principal Investigator (PI): Hochwalt, Bridget	Urban Institute	Sponsor: SHARE Charlotte
Teacher Education for Equitable Mathematics Instruction: An Exploratory Study of Noyce Program Impacts	\$19,062	Principal Investigator (PI): Fernandes, Anthony	Mathematics and Statistics	Sponsor: University of Arizona Prime Sponsor: National Science Foundation (NSF)

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Thermal Camera for Enhanced Laser Damage Testing	\$44,563	Principal Investigator (PI): Aggarwal, Ishwar	Physics and Optical Science	Sponsor: DOD DN Office of Naval Research (ONR)
UNC Charlotte Intelligence Community Center of Academic Excellence	\$298,563	Principal Investigator (PI): Walsh, James Co-PI: Conrad, Justin	Political Science and Public Administration	Sponsor: DOD Defense Intelligence Agency
Using Data Science to Create Election Science	\$20,000	Principal Investigator (PI): Kropf, Martha Co-PIs: Windett, Jason; Shaikh, Samira	Political Science and Public Administration	Sponsor: Massachusetts Institute of Technology (MIT) Election Data and Science Lab Prime Sponsor: William and Flora Hewlett Foundation
Using Maximum Common Substructures to Interpret Hybrid Search Results	\$38,193	Principal Investigator (PI): Cooper, Brian	Chemistry	Sponsor: DOC National Institute of Standards and Technology (NIST)
Utility Interaction Mapping of the United States	\$15,200	Principal Investigator (PI): Tang, Wenwu	Geography and Earth Sciences	Sponsor: Electric Power Research Institute (EPRI)
Ventureprise Launch and Charlotte Venture Challenge	\$1,625	Principal Investigator (PI): Collins, Devin	Ventureprise	Sponsor: North Carolina Biotechnology Center (NCBC)
Witchcraft, Obeah, and Vagrancy: Spiritual Practice and Colonial Law in Britain's Atlantic Empire, 1830s-1960s	\$50,000	Principal Investigator (PI): Boaz, Danielle	Africana Studies	Sponsor: Harvard University Hutchins Center for African and African American Research