2019 Small Grants Program Awardees
Area A
Physical and Biological Sciences, Mathematics, and Engineering

Brendan Ames, Mathematics
Coordinate descent methods for large-scale clustering and classification

Julia Cartwright, Geological Sciences
Using Fourier Transform InfraRed (FTIR) Technique to Determine the Composition of Extra-Terrestrial Materials

Carol Duffy, Biological Sciences
Isolation and characterization of jumbo bacteriophages

Anwarul Haque, College of Engineering
Additive Manufacturing of High Temperature Carbon Fiber Reinforced Composites for Aerospace Application

Elizabeth Hibberd, Health Science
Changes in Physical Characteristics Following the First Season of Kid-Pitch Baseball

Matthew Jenny, Biological Sciences
Development of a genetic model to assess the role of HMOX-1/BVR as a mediator of chronic inflammation

Sungjin Kim, Civil Construct and Enviro Eng
Dynamic Modeling of Unmanned Aircraft System (UAS) Performance for Construction and Civil Infrastructure Systems

Amanda Koh, Chemical and Bio Eng
Emulsion-Templated Polymer Foams as Customizable Absorbents to Combat Ecological Damage from Accidental Release of Crude Oil

Lin Li, Metallurgical and Material Eng
Unveiling the novel characteristics of structure-mechanical property relationship in high entropy alloys through machine learning

Jun Liu, Civil Construct and Enviro Eng
Preparing Small Cities for Shared Mobility with Autonomous Vehicles: A Case Study of Tuscaloosa, Alabama Area

Chukwuma Nnaji, Civil Construct and Enviro Eng
Enhancing the Application of Internet of Things (IoT) in Construction Safety Management

Margaret Stran, Kinesiology
Velocity Based Training Versus Percentage Based Training in Athletes with Ambulatory Disabilities

Ryan Summers, Chemical and Bio Eng
Production of antimicrobial peptides in probiotic bacteria
Libo Tan, Human Nutrition
*Age-mediateed Pharmacokinetics of Lutein in Rats: the APL Study*

Patricia Terry, Civil Construct and Enviro Eng
*Fluorescence Spectroscopy for Biofiltration Design in Drinking water Treatment Planst to remove Dissolved Organic Matter.*

Xiaowen Wang, Aerospace Eng and Mechanics
*Development of a low temperature plasma solver based on self-consistent continuum models*

Steven Weinman, Chemical and Bio Eng
*Engineering Anti-Biofilm Membranes*

Lee Winchester, Kinesiology
*The Impact of Acute Temperature Exposure During Exercise on Post-Exercise Stress Response and Physiological Adaptations*

Evan Wujcik, Chemical and Bio Eng
*Autonomously Self-Healable and Ultra-Stretchable Advanced Polymeric Materials for Activity Monitoring*

Chao Zhao, Chemical and Bio Eng
*Fundamental Studies of the Self-assemble Behavior of Hyperbrances Polymers*
Elliot Blair, Anthropology
*Archaeological and Geophysical Explorations of the Spanish Colonial Landscape of Creighton Island*

Bradley Bloomfield, College of Education
*The effectiveness of telecoaching to support teacher skill development to manage behavior in remote and underserved schools*

Brian Britt, Advertising and PR
*Analyzing the Evolution of Semantic Networks on Reddit*

Rebecca Britt, Journalism and Creative Media
*Addressing oral health disparities in Alabama through pilot research: Pairing qualitative inquiry with data mining organizational conversations on social networking sites*

Katherine Chiou, Anthropology
*A Life without Plenty: Food and Adversity in Late Moche Households (600-800 CE)*

Youn-Jeng Choi, Ed Stud Psyc, Res Method, Coun
*Epistemological Beliefs Profiles: Evidence from Nigerian Teacher Candidates*

*Development of a Comprehensive School-Based Suicide Surveillance System*

Jane Daquin, Criminology and CJ
*Identifying the Victim - Examining Public Perceptions of Elder Victimization among the General and Prison Populations*

Nitya Das Acevedo, School of Law
*Regulating Labor in the Gig Economy*

Joshua Eyer, Capstone College of Nursing
*Pilot of Statewide Survey of Sexual Gender and Minority Health*

Heather Fye, College of Education
*Developing a model for understanding the relationship between school counselors' wellness practices, perceived stress, and job burnout*

Peter Harms, Management
*Investigative Justice Perceptions and Turnover in the Internet-Based Gig Economy*

Steven Holiday, Advertising and PR
*History and Effects of the Use of Advertising Structure in Educational Children's Programs*

Matthew Jarrett, Psychology
*Friendship Interactions of Youth with ADHD*

Hyunjung Ji, Political Science
*Hazard Mitigation and Community Resilience*
Kristine Jolivette, College of Education
*Tiers I and II Interventions in Schools and Facilities*

Karen Johnson, Social Work
*Exploring the feasibility of adapting and implementing an HIV/STI evidence-based prevention for Black substance-using, court involved women in Alabama*

Lewis Lee, Social Work
*Work effects on individual levels of substance use among former deliquent adolescents*

Wenchao Ma, Ed Stud Psyc, Res Method, Coun
*Evaluating the goodness-of-fit of the cognitive diagnosis models for ordinal response data*

Steven MacCall, School of Library & Info Sci
*Investigation of a Date-Driven Indexing Method for Multimedia Asset Collections in Sports: Phase I: How Much Data Can Be Removed form Alabama Football History?*

Gibran Mancus, Capstone College of Nursing
*Resilience of Environmental Migrants*

Mercedes Morales-Aleman, College of Comm Health Science
*Families Talking Together Pilot Study: An Evidence-Based Intervention to Promote Family Communication about Sexual Health among in Latino/as in West Alabama*

Christine Ringler, Marketing
*Sonic Intimacy: How Musical Timbre Sparks Connections Between Frontline Employees and Customers*

Mark Roberts, Journalism and Creative Media
*Virtue development in emerging adults: From college media majors to the real world*

Evthokia Saclarides, Curriculum and Instruction
*Instructional Coaches’ Strategies for Responding to External Pressures*

Firat Soylu, College of Education
*Mathematical Processing Differences between Bilinguals and Monolinguals*

Amy Traylor, Social Work
*An Evaluation of the Impact of Equine Assisted Activities on Child Behavior and Family Wellbeing*

Laci Watkins, Special Ed and Multi Abilities
*A Pilot Study Examining Effects of Social Skills for Children with Autism Spectrum Disorder across Multiple Outcomes*

Debra Whisenant, Capstone College of Nursing
*In Depth Study of Cuba's Maternity Homes for Adaptation of Practice to Rural Alabama*

Mesut Yavuz, Info Syst, Stats & Mgt Science
*Modeling and Analysis of Green Vehicle Routing in Sustainable Transportation*
2019 Small Grant Program Awardees
Area C
Arts and Humanities

Torin Alter, Philosophy
The Matter of Consciousness

Sarah Bryant, School of Library & Info Sciences
Color Systems Artist Book

James Crank, English
Southern Culture, Trash, and Rhetorics of Disposability, 1970-2020

Jeremy Crawford, Music
The Singing Tuba

Allison Grant, Art and Art History
Mothering in the Age of Climate Change

Holland Hopson, New College
New Music for Digitally Fabricated Instruments

Jessica Maddox, Journalism and Creative Media
Live Stream Killed the Video Star: Understanding YouTube and Twitch Literacy

Alexis McGee, English
Generational Rhetorics of Black Womanhood

James McNaughton, English
"Samuel Beckett: Three Articles"

Osiris Molina, Music
Piezas Cubanas: Cuban Works for Clarinet and Piano

Rekha Nath, Philosophy The Injustice of Fat Stigma

Joseph Sargent, Music
Leo Sowerby Biography

Kelly Shannon, Modern Languages and Classics
Deified Emperors in Latin Literature and Roman Inscriptions: A Digital Humanities Approach

Rachel Stephens, Art and Art History
Interpreting Sites of Slavery