

# BAF Spring E-Workshop 2020



TEXAS A&M UNIVERSITY

Hazard Reduction  
& Recovery Center

## SMALL GRANT WRITING



## ACADEMIC BRANDING



## PRESENTATIONS FEEDBACK



# Small Grant Writing Webinar

**Date:** Friday, March 27, 2020

**Time:** 01:00 PM - 2:00 PM Central Time (US and Canada)

**Join Zoom Meeting:** <https://zoom.us/j/366557317?pwd=K2svMUZORm1GWlhKRkswQXlyUFNkdz09>

**Meeting ID:** 366 557 317

**Password:** 081755

**One tap mobile:** +19292056099,,366557317# US (New York)

+13126266799,,366557317# US (Chicago)

## Panelists:



Noel M. Estwick, Ph.D.  
Assistant Professor and Research Scientist  
Department of Agriculture, Nutrition and Human  
Ecology  
College of Agriculture & Human Sciences  
Prairie View A&M University

Noel M. Estwick is an Assistant Professor in the Department of Agriculture, Nutrition and Human Ecology, Prairie View A&M University. He holds a Ph.D. in Urban Planning and Environmental Policy from Texas Southern University. His research interests include improving the emergency management process especially among underserved populations and persons with functional and access needs. In 2017, he participated in the United States Department of Agriculture National Institute of Food and Agriculture (USDA/NIFA) Division of Family and Consumer Sciences Visiting Scholar Program. The program advances collaboration between NIFA and its Land-Grant University (LGU) partners. As a Visiting Scholar, he explored the needs for increased participation of 1890 LGUs in the Extension Disaster Education Network. He also conducts research in food security and has a passion for teaching GIS-GPS to youth.



# Small Grant Writing Webinar



Ali Mostafavi, Ph.D.  
Assistant Professor  
Zachry Department of Civil & Environmental  
Engineering  
College of Engineering  
Texas A&M University

Ali Mostafavi received his Ph.D. in Civil Engineering at Purdue University in August 2013. He also holds a Master of Science in Industrial Administration (One-year accelerated MBA) degree from the Krannert School of Management at Purdue University. Ali Mostafavi supervises the Urban Resilience, Networks, and Informatics. His research focuses on a system-of-systems paradigm that bridges the boundaries between complex systems science, network theory, and civil infrastructure systems to address sustainability and resilience challenges. He has been a principal investigator (PI/Co-PI) in multiple research projects funded by different agencies, such as the National Science Foundation (NSF), Construction Industry Institute (CII), and Miami-Dade Expressway (MDX). He is also a member of the Infrastructure Resilience Division (IRD) of the American Society of Civil Engineers (ASCE) and the Academic Leadership Committee of CII.

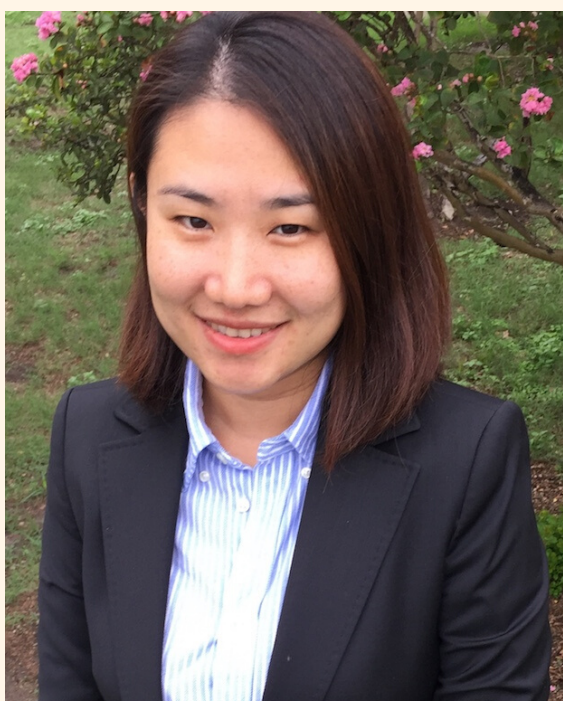
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Maria Watson, Ph.D.  
Research Assistant Professor  
Hazard Reduction & Recovery Center  
College of Architecture  
Texas A&M University

Maria Watson has degrees in Urban Planning from Ohio State University and Texas A&M University and is currently a research assistant professor in the Department of Landscape Architecture and Urban Planning at Texas A&M University. She conducts research through the Hazard Reduction Recovery Center and The Center for Risk-Based Community Resilience Planning funded by the National Institute of Standards and Technology (NIST) and has been a part of multiple interdisciplinary and longitudinal research projects in Galveston County, TX after Hurricane Ike, New York City, New York after Hurricane Sandy, and Lumberton, NC after Hurricanes Matthew and Florence. She uses quasi-experimental design, organizational theory, and survey methods to understand small business resilience and the role of disaster assistance programs in community recovery.

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Zhe Zhang, Ph.D.  
Assistant Professor  
Department of Geography  
College of Geoscience  
Texas A&M University

Zhe Zhang is an assistant professor in the Department of Geography at Texas A&M University. She leads the CyberGIS & Decision Support Systems Initiative in the Research Committee of the University Consortium for Geographic Information Science (UCGIS). She collaborated with researchers and professors in various fields of sciences, including GIScience, computer science, atmosphere science, environmental science, military science, hydrological, agricultural and nuclear science. Through her interdisciplinary research, Dr. Zhang aims to develop intelligent spatial decision support systems for building urban resilience and improving urban sustainability. She explores several interrelated sub-research themes, such as spatiotemporal data modeling, uncertainty analysis of geographic information and risk, human and artificial intelligence, knowledge acquisition and representation, and big data and advanced cyberinfrastructure. Her research covers the application areas of disaster management, critical infrastructure modeling and protection, urban security, and food-water-energy nexus.



# Academic Branding Webinar

**Date:** Friday, March 27, 2020

**Time:** 03:00 PM -4:00 PM Central Time (US and Canada)

**Join Zoom Meeting:** <https://zoom.us/j/619970740?pwd=ZVVNaDlXTmFidOt2VWxYQldYUGdLdz09>

**Meeting ID:** 619 970 740

**Password:** 041351

**One tap mobile:** +13126266799,,619970740# US (Chicago)

+19292056099,,619970740# US (New York)

## Panelists:



Amir Behazadan, Ph.D.  
Associate Professor  
Department of Construction Science  
College of Architecture  
Texas A&M University

Amir Behazadan obtained his Ph.D. degree in Civil Engineering and M.S. degree in Construction Engineering and Management both from the University of Michigan. He is the Director of the Connected Informatics and Built Environment Research (CIBER) Lab. His research interests include artificial intelligence (AI), and simulation and visualization for urban informatics, disaster resiliency, construction safety, and smart health and ergonomics. His work is funded by the U.S. National Science Foundation (NSF), Texas Sea Grant program of the National Oceanic and Atmospheric Administration (NOAA), Florida Department of Transportation (FDOT), and Engineering Information Foundation (EIF). He is serving as the Chair of the Visualization, Information Modeling, and Simulation (VIMS) Committee under the ASCE Computing Division. He is also an Associate Editor of the Journal of Smart and Sustainable Built Environment, and serves on the editorial board of the ASCE Journal of Construction Engineering and Management.



# Academic Branding Webinar



Marccus D. Hendricks, Ph.D.  
Assistant Professor  
Department of Urban Studies &  
Planning  
School of Architecture, Planning &  
Preservation  
Texas A&M University

Dr. Marccus D. Hendricks is an Assistant Professor of Urban Studies and Planning in the School of Architecture, Planning, and Preservation and a Faculty Affiliate with the Maryland Institute for Applied Environmental Health in the School of Public Health at the University of Maryland in College Park, Maryland. His primary research interests include stormwater infrastructure planning and management, social vulnerability to disaster, environmental justice, sustainable development, public health and the built environment, and participatory action research. At the intersection of his work, he uses a combined social vulnerability to disaster and environmental justice framework, to ensure that lower-income communities, particularly of color, are planned and accounted for, emphasizing participation and action, in light of everyday stormwater management and extreme events such as urban flooding. His research takes into account how socio-spatial dynamics related to the inventory, condition, and distribution of critical infrastructures and public works, mainly water infrastructure (i.e. stormwater, wastewater, and drinking water) and green space, can modify risks of hazard exposure, resulting disaster impacts, public health outcomes, long-term recovery, and opportunities for community resilience. He holds a Ph.D. in Urban and Regional Science and a Master of Public Health, both from Texas A&M University. He completed his undergraduate work at the University of North Texas.



Reuben May, Ph.D.  
Presidential Professor for Teaching  
Excellence  
Department of Sociology  
College of Liberal Arts  
Texas A&M University

Reuben May received his Ph.D. from the University of Chicago in 1996. His primary areas of focus are Race and Ethnicity, Urban Sociology, and the Sociology of Sport. He is interested in how some institutions shape situational contexts and how individuals within those contexts negotiate, interpret, and define race, class, culture, and identity. May is the author of three books: *Urban Nightlife: Entertaining Race, Class, and Culture in Public Space* (2014), the award-winning book *Living Through the Hoop: High School Basketball, Race, and the American Dream* (2008) and *Talking at Trena's: Everyday Conversations at an African American Tavern* (2001). He has been a fellow at the W.E.B. Du Bois Institute for African and African American Research at Harvard University and a Dr. Martin Luther King, Jr. visiting professor at MIT. His work has also appeared in scholarly journals such as *Qualitative Sociology*, *Qualitative Inquiry*, *Studies in Symbolic Interaction*, *Sociology of Sport Journal*, and *Journal of Ethnic and Racial Studies*. In addition to his books and other scholarly publications, May has been featured on radio and television and in print media, in particular for his performance as the #rappingprofessor Reginald S. Stuckey.



Siyu Yu, Ph.D.  
Lecturer & Postdoc Researcher  
Department of Landscape Architecture &  
Urban Planning, College of Architecture  
Texas A&M University

Dr. Siyu Yu is a lecturer at Texas A&M University and postdoctoral researcher in the Hazard Reduction and Recovery Center and Institute for Sustainable Communities, where she studies the effects of plans and policies on vulnerability to flooding in coastal communities. Her experience spans land use, urbanization, and resilience issues in the United States, the Netherlands, and China. Before arriving at Texas A&M, she worked as a senior urban planner at the Urban Planning and Design Institute of Shenzhen, China. She holds a PhD in Urban Regional Science and is certified by the American Institute of Certified Planners.



# Presentation Feedback

Please submit your presentation by **Wednesday, March 25, 2020**

You can upload the file on the google drive

When you upload your file, please name your file in this format: **Lastname\_Title**

Each presentation will be reviewed by 3 faculty.

Individual Virtual zoom feedback will be provided on **Friday morning, March 27, 2020**. You will be placed in a "waiting room" until your scheduled time. Individual will only have up to 30 mins to discuss their presentation with the faculty, so please be on time!

- **To enter your one on one feedback session, please join the Zoom Meeting: <https://tamu.zoom.us/j/205800702?pwd=NUhkcHZZVnRnb3ZZUU12dTUwQXI4Zz09>**
- **Meeting ID: 205 800 702**

Individual Written feedback will be provided by **Monday, March 30, 2020**.

## Reviewers



Kayode Atoba, Ph.D.  
Postdoc Researcher,  
Center for Texas Beaches & Shore  
Prairie View A&M University, Galveston

Kayode Atoba is postdoctoral research scientist with the Center for Texas Beaches and Shores and the Institute for Sustainable Communities at Texas A&M University. He holds a Ph.D. in Urban and Regional Science, a master's degree in Geographic Information Systems, and a bachelor's degree in Urban and Regional Planning. Atoba's research focuses on using quantitative and geospatial methodologies to identify the interactions between the built environment and natural hazards. His research evaluates the socio-ecological and institutional factors responsible for the changing dynamics of flood hazard impacts in high risk areas, while also drawing on the broader theory of hazard resiliency to propose best mitigation strategies. Atoba is a mentor and alumnus of the William Averette Anderson Fund, the first interdisciplinary organization in the United States focused on increasing the number of underrepresented persons in the field of disaster research and planning.



# Presentation Feedback



Heng Cai, Ph.D.  
Instructional Assistant Professor  
Department of Geography  
College of Geoscience  
Texas A&M University

Dr. Cai's research primarily focus on the application of geographic information science and technology (GIST) in disaster resilience and coupled natural-human system modeling. She has worked for a number of research projects funded by National science foundation, Louisiana sea grant, and Coastal protection and restoration authority. Her work employs a diverse spatial analysis tools and data mining methods to evaluate the community resilience to natural hazards, model the interactions between the human and natural systems, and simulate population and land cover changes under certain scenarios.



Shanka Chellum, Ph.D.  
Postdoc Researcher,  
J. Walter "Deak" Porter '22 & James W.  
"Bud" Porter '51 Professor  
Zachry Department of Civil &  
Environmental Engineering  
College of Engineering  
Texas A&M University

Shankar Chellam is the J. Walter "Deak" Porter '22 & James W. "Bud" Porter '51 Professor in the Zachry Department of Civil Engineering. Before joining Texas A&M University in August 2015, he spent 16 years at the University of Houston. His bachelor's and master's degrees are in mechanical engineering and chemistry, respectively, from the Birla Institute of Technology and Science in India. He also holds master's and Ph.D. degrees in environmental engineering from Rice University. Shankar has seven years of "real-world" experience as a process engineer with J.K. Synthetics, India and as a research engineer with Montgomery Watson. His research interests broadly include advanced technologies for water purification and analysis of trace metals in airborne particulate matter. A recipient of a National Science Foundation early CAREER award, Shankar currently serves as an elected member of the Board of Directors of the Association of Environmental Engineering and Science Professors Foundation. He previously served on the Board of Directors of the North American Membrane Society and the Association of Environmental Engineering and Science Professors.



Deidra Davis, Ph.D.  
Instructional Assistant Professor,  
Department of Landscape and Urban  
Planning  
College of Architecture  
Texas A&M University

Dr. Deidra D. Davis is an Instructional Assistant Professor in the Department of Landscape Architecture and Urban Planning and the Director of Equity and Inclusion for the Hazard Reduction & Recovery Center at Texas A&M University. She received her PhD in Environmental Resources and Policy and her Master's degree in Geography from Southern Illinois University Carbondale and a Bachelor of Science in Biology from Chicago State University. She has over eight years of teaching experience, has participated on various university and city government advisory committees, and engaged in countless opportunities mentoring students. Her research interests include issues of environmental justice, community engagement, public policy, and land use management. Specifically, Dr. Davis studies marginalized communities and their involvement in the environmental decision making process. Dr. Davis is knowledgeable, skilled in her field, and passionate about students' success in higher education.



# Presentation Feedback



Noel M. Estwick, Ph.D.  
Assistant Professor and Research Scientist  
Department of Agriculture, Nutrition and Human Ecology  
College of Agriculture & Human Sciences  
Prairie View A&M University

Noel M. Estwick is an Assistant Professor in the Department of Agriculture, Nutrition and Human Ecology, Prairie View A&M University. He holds a Ph.D. in Urban Planning and Environmental Policy from Texas Southern University. His research interests include improving the emergency management process especially among underserved populations and persons with functional and access needs. In 2017, he participated in the United States Department of Agriculture National Institute of Food and Agriculture (USDA/NIFA) Division of Family and Consumer Sciences Visiting Scholar Program. The program advances collaboration between NIFA and its Land-Grant University (LGU) partners. As a Visiting Scholar, he explored the needs for increased participation of 1890 LGUs in the Extension Disaster Education Network. He also conducts research in food security and has a passion for teaching GIS-GPS to youth.



Dawn Jourdan, Ph.D.  
Executive Associate Dean  
College of Architecture  
Department of Landscape Architecture & Urban Planning  
Texas A&M University

Dawn Jourdan is Executive Associate Dean for the College of Architecture at Texas A&M University. In that capacity, she serves as Dean of Faculty, Research and Graduate Programs. She holds the rank of professor in the Department of Landscape Architecture and Urban Planning. Previously, Dawn served as associate professor and Director of the Division of Regional and City Planning at the University of Oklahoma (2012-2016). Dawn held a joint appointment between the Colleges of Design, Construction, and Planning and the Levin College of Law from 2008-2012. She began her academic career in 2003 at Texas A&M University. Dawn earned a Ph.D. in urban and regional planning from Florida State University in 2004, a joint degree in law and urban planning from the University of Kansas in 2000, and a B.S. in Urban Affairs and Theatre Arts from Bradley University in 1996. She teaches courses in: land use law, growth management; affordable housing; and planning history and theory, among others. Dawn conducts research at the intersection of planning, law and governance. She is the founding president of the Academic Advisory Council for Signage Research and Education and currently serves as the editor of the Interdisciplinary Journal of Signage and Wayfinding. Dawn is the chair of ACSP's Committee on the Academy.



Lady Franciscar Nicolas-Kassama, AICP  
Planner  
City of Huntsville, AL

Lady Franciscar Kassama currently works as a Planner for the City of Huntsville, AL. She also worked as a Zoning Administrator and Planner at the City of Tuscaloosa. She was a Researcher for the Department of Community and Regional Planning at Alabama Agricultural and Mechanical University where she conducted studies related to urban planning and disasters. Her research was on the impacts of climate change and disasters on food safety, transportation, and land use. Major findings from her research have been published in the Journal of Transport and Health, the International Journal of Current Research and the International Journal of Development Research. She interned in the GIS Division of the City of Huntsville, AL where she was involved in updating the built environment geodatabase of the city. She is also a longtime volunteer of the American Red Cross where she assists in mapping for the Alabama region for disaster preparedness and response purposes. Lady received a Master in Urban and Regional Planning from Alabama Agricultural and Mechanical University in 2016 and from the University of the Philippines in 2003. Her thesis was on the Assessment of the Integration of Disaster and Hazard Mitigation into Local Planning.



# Presentation Feedback



Maria Koliou, Ph.D.  
Assistant Professor  
Zachry Department of Civil & Environmental  
Engineering  
College of Engineering  
Texas A&M University

Dr. Koliou received both Ph.D. and M.Sc degrees in civil engineering from University of Buffalo - the State University of New York. Her research interests span the fields of structural dynamics and earthquake engineering, and multi-hazard performance-based design for system functionality and community resilience. Through these areas, her research focuses on developing sustainable structural systems and hazard-resistant communities accounting for economic and social aspects. Ultimate goal is to contribute to the well-being of communities by developing novel resilient structural designs and systems against various natural and man-made hazards, and formulating fundamental mathematical frameworks to assess system functionality and community resilience under multiple hazards.



Michelle Meyer, Ph.D.  
Director  
Hazard Reduction & Recovery Center  
College of Architecture  
Texas A&M University

Dr. Michelle Meyer received a Ph.D. and MA degree of sociology from Colorado State University (CSU). She earned a BA from Murray State University in Murray, KY. Michelle's research interests include disaster recovery and mitigation, community sustainability and resilience, and the interplay between environmental conditions and social vulnerability. She uses the lens of social capital and collective efficacy to understand how relationships between individuals and between governmental and non-profit organizations generate or hinder disaster risk and recovery. Michelle has worked on various research projects including disaster risk perception, social capital in disaster resilience, long-term recovery, organizational energy conservation, volunteer training program evaluation, evaluation of disaster response plans for individuals with disabilities, social media use among vulnerable populations, how to increase protective action knowledge in Haiti, citizen science protocols for measuring storm-water condition equity, and environmental attitudes and behaviors. She regularly collaborates with nonprofit organizations on applied research including t.e.j.a.s. (Texas Environmental Justice Advocacy Service), GeoHazards International, local long-term recovery organizations, Louisiana Environmental Action Network (LEAN), as well as with high school students.



Jason Moats, Ph.D.  
Associate Division Director  
Emergency Services Training Institute  
Texas A&M Engineering Extension Service

Dr. Jason Moats earned his master's and doctorate degrees in Educational Human Resource Development from Texas A&M University and a bachelor's degree in Workforce Education & Development from Southern Illinois University. Jason is the author of "Agroterrorism, A Guide for First Responders". He has had articles published on a variety of topics involving training and development, technology acceptance, crisis management, and the work of scholar-practitioners. He also has published a chapter in the Handbook of Innovative Technology Integration in Higher Education. Dr. Moats has nearly three decades of experience in of emergency services. He has served as a firefighter for departments in Kentucky, Florida, and Indiana, as well as an Emergency Medical Technician in Indiana, Florida and San Diego County (CA). He has been decorated for valor on two occasions while serving as a firefighter/EMT. He has also served in the United States Navy as a hospital corpsman where he served aboard ships as well as in hospitals as an EMT.



# Presentation Feedback



Valentini Pappa, Ph.D.  
Adjunct Professor  
Texas A&M Energy Institute, Department of  
Biological & Agricultural Engineering  
College of Engineering  
Texas A&M University

Dr. Valentini Pappa received both her Ph.D. and M.Sc. degree in Geoscience from the University of Edinburgh, UK. Her research interests include Agro-environmental science, carbon sequestration, water and energy management, climate change focusing on greenhouse gas measurements and mitigation in agricultural systems. She works to make significant contributions in the environmental sector by combining existing knowledge to improve methodologies and data analysis, by examining key legumes and arable crops under different farming systems, including biochar, and focusing on three major issues: i) methods to manage and sustain soil food production; ii) ways to use fewer inputs to protect the environment and iii) the use of modelling approaches to predict and make case scenarios for profitable routes. Pappa's work on these issues is intended to lead to further project developments, involving regional production systems, novel food and non-food uses of crops, establishment of new inventory data on the environmental intensity of arable production systems, efficient use of energy and water nexus for the maximum food production, and land use/soil management to reduce environmental pollution.

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Carlee Purdum, Ph.D.  
Research Assistant Professor  
Hazard Reduction & Recovery Center  
College of Architecture  
Texas A&M University

J. Carlee Purdum is a Research Assistant Professor for the Hazard Reduction and Recovery Center at Texas A&M University. Her work centers on how hazards and disasters impact incarcerated populations and correctional facilities. She is also working on projects with the HRRC examining civilian rescue organizations as well as long term recovery after both natural and technological disasters, including most recently, Hurricane Harvey. Other projects have examined public health on the gulf coast after the BP oil spill of 2010, social media in disasters, disaster risk perception, and hurricane evacuation behavior. Her research interests include emergency response (fire & medical personnel), rural disasters/emergency response, long term disaster recovery, social vulnerability, vulnerable populations, incarcerated workers, all-hazard inmate firefighters, and incarceration and prisons in disasters.

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Siyu Yu, Ph.D.  
Lecturer & Postdoc Researcher  
Department of Landscape Architecture &  
Urban Planning, College of Architecture  
Texas A&M University

Dr. Siyu Yu is a lecturer at Texas A&M University and postdoctoral researcher in the Hazard Reduction and Recovery Center and Institute for Sustainable Communities, where she studies the effects of plans and policies on vulnerability to flooding in coastal communities. Her experience spans land use, urbanization, and resilience issues in the United States, the Netherlands, and China. Before arriving at Texas A&M, she worked as a senior urban planner at the Urban Planning and Design Institute of Shenzhen, China. She holds a PhD in Urban Regional Science and is certified by the American Institute of Certified Planners.



# Presentation Feedback



Maria Watson, Ph.D.  
Research Assistant Professor  
Hazard Reduction & Recovery Center  
College of Architecture  
Texas A&M University

Maria Watson has degrees in Urban Planning from Ohio State University and Texas A&M University and is currently a research assistant professor in the Department of Landscape Architecture and Urban Planning at Texas A&M University. She conducts research through the Hazard Reduction Recovery Center and The Center for Risk-Based Community Resilience Planning funded by the National Institute of Standards and Technology (NIST) and has been a part of multiple interdisciplinary and longitudinal research projects in Galveston County, TX after Hurricane Ike, New York City, New York after Hurricane Sandy, and Lumberton, NC after Hurricanes Matthew and Florence. She uses quasi-experimental design, organizational theory, and survey methods to understand small business resilience and the role of disaster assistance programs in community recovery.



Lei Zou, Ph.D.  
Assistant Professor  
Department of Geography  
College of Geoscience  
Texas A&M University

Dr. Lei Zou's research interest is mining geospatial Big Data to analyze, model, and manage human-environment interactions. During the past few years, he has participated in a number of research projects funded by National Science Foundation (NSF), USGS, Louisiana Sea Grant, and Netherlands RAAK Public Grant. Increasingly frequent natural hazards and global environmental changes have posted huge challenges to the sustainability of human communities. Meanwhile, human behaviors are also changing the landscape and ecology of planet earth. Understanding the impacts and feedbacks between human and natural systems is the key to build sustainable futures for both systems. To build disaster resilience and long-term sustainability, his research focus on: location-based social media data mining for smart emergency management; web harvesting and Deep Learning for geospatial data collection and analysis; coupled natural-human system modeling for population dynamics, land loss and urban growth; assessment models of community resilience to natural hazards.

THANK  
YOU

**Thank you** for participating in the Bill Anderson Fund Workshop.  
**Thank you** for being adaptable and flexible given the current state of the world.  
**Thank you** for your commitment to the BAF mission and provide continued professional development and social interaction with the fellows.