



March 24 | 10a-4:20p | March 25 | 10a-4:30p

BRACE FOR IMPACT

When Interdisciplinary Research
and Social Progress Collide

SCHEDULE IS IN EASTERN TIME ZONE

10:30 - 10:45

**WELCOME REMARKS AND
HOUSEKEEPING REMINDERS**

Dean Mark Riley, President Richard McCullough,
Assistant Director Caitlin Kelly, Stacy Ashlyn

10:45 - 11:45

**PANEL 1: WORKING WITH
INTERDISCIPLINARY AND DIVERSE
TEAMS TO ADDRESS CLIMATE CHANGE**

Presenters:

Dr. Brad Johnson (Geography),

Dr. Earl Bailey - University of Technology, Jamaica

Moderator: Stacy Ashlyn

11:45 - 12:45

**POSTER PRESENTATION SESSION
FOLLOWED BY LUNCH BREAK**

12:45 - 2:20

**PANEL 2: STARING UP AT SPACE:
DIFFERENT WAYS OF SEEING THE
COSMOS**

Presenters:

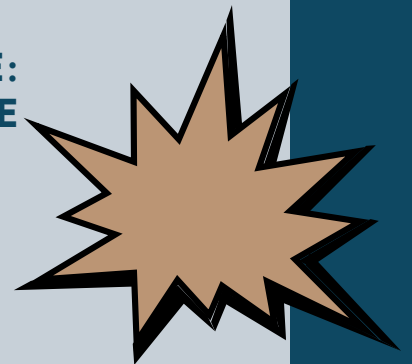
Dr. Jeffrey Kissel (LIGO Hanford)

Dr. Julie Klinger (University of Delaware)

Dr. Kevin Huffenberger (FSU - Physics)

Dr. Kelly Lepo (Space Telescope Science Institute)

Moderator: Liam White



2:20 - 2:50

KEYNOTE SPEAKER DAY 1

Conversation with Jawole Willa Jo Zollar by
Hannah Fazio

2:50 - 4:20

WORKSHOP 1: MAP MATTERS

Open Street Map /Humanitarian
OpenStreetMapTeam Mapathon by
YouthMappers - The George Washington
University (Humanitarian Mapping Society)

3:20 - 4:20

**WORKSHOP 2: DESTRESS,
DECOMPRESS AND MOVE!**

Yoga for focus and relaxation with Hannah
Fazio



10:00 - 11:00

KEYNOTE SPEAKER DAY 2

Andrea Knepper with Chicago Adventure Therapy

11:00 - 12:00

WORKSHOP 3: INTERACTIVE AI

Christopher Buglino

11:00 - 12:00

**WORKSHOP 4: INCREASING YOUR
IMPACT**

Ensuring inclusion & access to education & research
through open educational resources by Linsey
Wharton & Shawna Durtschi (OER)

12:00 - 1:00

POSTER PRESENTATION SESSION

1:00 - 2:00

**PENGUIN TRIVIA NETWORKING
SESSION**

2:00 - 3:00

**WORKSHOP 5: ENSURING SOCIO-
CULTURAL DIVERSITY IN RESEARCH**

Mike Mitchell (ORD) and Annie Grier (HR-EDI)



2:00 - 3:00

WORKSHOP 6: CONDUCTING PARTICIPATORY RESEARCH

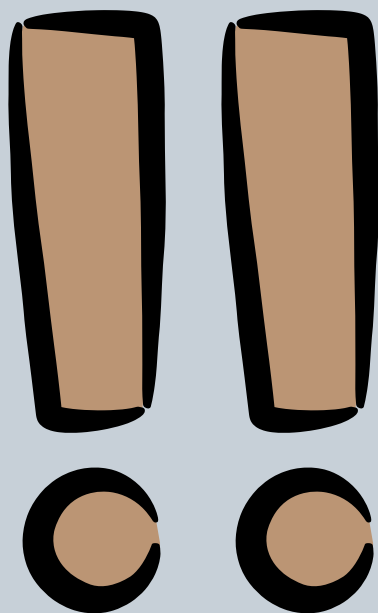
PEAKS Research Lab (Director Jessica Wendorf Muhamad, Ph.D)

3:00 - 3:30

POSTER AWARDS AND CLOSING CEREMONY

3:30 - 4:30

POST-FORUM OPEN ZOOM HANG-OUT



Working with Interdisciplinary and Diverse Teams to Address Climate Change

The panel aims to discuss the benefits and challenges of working interdisciplinarily to solve issues related to climate change. Each speaker will have 15 minutes to discuss their work and experience on this topic. A moderated Q&A session will follow the panelists' presentations.



PANEL 1 PRESENTER INFORMATION

Dr. Earl Bailey

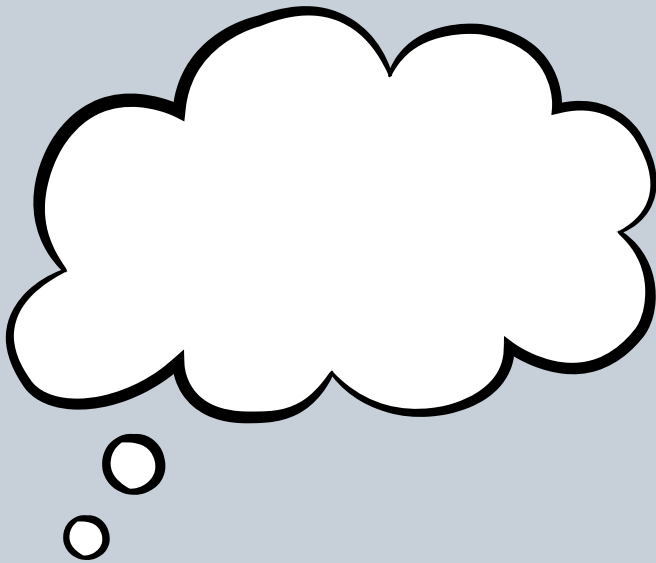
Dr. Bailey is in his 28th year as an Academic at the University of Technology, Jamaica and over 10 years as an Adjunct Lecturer at the University of West Indies, Mona. His general areas cover: Urban and Regional Planning and Land Resources Management, with a special emphasis on housing, spatial planning, heritage, disaster management, environmental planning and management, construction, climate change, planning policy, development plan making and management and land development. Dr. Bailey spearheaded the accreditation of the Bachelors in URP as the first and second programme within the UTech, Ja. to be accredited by the University Council of Jamaica (UCJ) in 2003 and 2008, respectively. He is also among the first persons to introduce Geographic Information System (GIS) and Remote Sensing (RS) to Jamaica's academic and professional environment in 1991. He was instrumental in assisting with the transition of the academic courses of the URP into the new UTech semesterisation framework. He has also been intimately involved in all major successful research and consultancy within the URP since 1993 to present. His engagement with the GOJ saw him involved in the preparation of the National Housing Policy and Implementation Plan in 2008, National Squatter Report, 2004 and Template for the consolidation of the Technical Services of the Housing Agency of Jamaica and Ministry of Economic Growth and Job Creation.

While President of the Jamaica Institute of Planners, in 2003, he chartered the framework legislation for Planners to be a formal part of the development process. He is currently the Vice President of the JIP. Prior to UTech/CAST, he was employed to ALCAN Bauxite Company as Assistant Resettlement Officer, Jamaica Bauxite Institute (JBI) as Assistant Reserves Evaluator.



Staring up at Space: Different Ways of Seeing the Cosmos

The panel aims to gain unique perspectives on different ways of observing and thinking about the universe. Each panelist will be given 15 minutes to speak on their field of research as it relates to the topic of the panel. A moderated discussion and Q&A will follow the panelists' presentations.



PANEL 2 PRESENTER INFORMATION

Dr. Jeffrey Kissel

Jeffrey S. Kissel has served as the control systems engineer at the LIGO Hanford Observatory since 2013. His primary role there is to design, understand, commission, and improve all control systems in the LIGO detector, ensuring the highest level detector robustness. His academic journey across the United States has included an undergraduate degree in Astronomy and Astrophysics from Pennsylvania State University in 2005, a doctorate in Physics from Louisiana State University in 2010 and at the LIGO Livingston Detector, and a post-doctoral research position at the Massachusetts Institute of Technology from 2010 to 2013, supervising the testing and design of all LIGO detectors suspension control systems. The primary control system for the detectors — that of their differential length arm cavities, which is proportional to the detectors gravitational wave output signal — has dominated his career, ensuring that the calibration of that gravitational wave output signal contains only a small, well-characterized amount of systematic error and uncertainty. It is through this lens Dr. Kissel delivers the context of his work: the brand new corner of observational space science: gravitational wave astronomy.



PANEL 2 PRESENTER
INFORMATION

Dr. Kevin Huffenberger

Kevin Huffenberger is an associate professor of physics at Florida State University. His research specializes in cosmology, the study of the large-scale universe. Using the cosmic microwave background radiation, which is the left-over glow from the Big Bang, Prof. Huffenberger's research group examines fundamental physical properties of the early universe. The cosmic microwave background also serves as a universal backlight that illuminates and reveals structures in the late-time universe, like the cosmic web of dark-matter-dominated large-scale structure and clusters of galaxies. He is Science Council co-chair for the CMB-S4 collaboration, which is planning the research program for a set of next-generation cosmic microwave background observatories. Prior to work as an assistant professor at the University of Miami and a postdoctoral appointment at Caltech and the Jet Propulsion Laboratory, he earned his PhD from Princeton University in 2006.



PANEL 2 PRESENTER INFORMATION

Dr. Julie Klinger

Dr. Julie Michelle Klinger is an Assistant Professor in the Department of Geography and Spatial Sciences at the University of Delaware, Associate Director of the Minerals, Materials, and Society program, Principal Investigator of National Science Foundation Award #2039857, Characterizing the Global Illicit Trade in Energy-Critical Materials Using Machine Learning, Remote Sensing, and Multilingual Qualitative Research, and a member of the International Standards Organization Technical Advisory Group 298: Rare Earth Supply Chain Transparency and Traceability. She has published numerous articles on rare earth elements, natural resource use, environmental politics, and outer space, including the award-winning book *Rare Earth Frontiers: From Terrestrial Subsoils to Lunar Landscapes*.



PANEL 2 PRESENTER INFORMATION

Dr. Kelly Lepo

Dr. Kelly Lepo is an Education and Outreach Scientist at the Space Telescope Science Institute, where she supports outreach efforts for the James Webb Space Telescope. She received a PhD in Astronomy and Astrophysics from the University of Toronto. During her time in Canada, she made numerous local and national media appearances to talk about everything from the 2012 Mayan Apocalypse to the Super Blue Blood Moon. She previously served as the Coordinator of the McGill Space Institute, taught physics at Gonzaga University, and helped build the Large Hadron Collider at CERN.



KEYNOTE SPEAKER DAY 1 INFORMATION

Professor Jawole Willa Jo Zollar

Jawole Willa Jo Zollar (Founder and Artistic Director, Urban Bush Women) was born and raised in Kansas City, MO. She trained with Joseph Stevenson, a student of the legendary Katherine Dunham, and received a B.A. in dance from the University of Missouri at Kansas City and an M.F.A. in dance from Florida State University. In 1980, she moved to New York City to study with Dianne McIntyre at Sounds in Motion. She founded Urban Bush Women in 1984. In addition to thirty works for UBW, Jawole has created works for Alvin Ailey American Dance Theater, Ballet Arizona, Philadanco, University of Maryland, University of Florida, Dayton Contemporary Dance Company and others. Her many positions as a teacher and speaker include Worlds of Thought Resident Scholar at Mankato State University (1993-94), Regents Lecturer in the Departments of Dance and World Arts and Culture at UCLA (1995-96), Visiting Artist at Ohio State University (1996), and the Abramowitz Memorial Lecturer at Massachusetts Institute of Technology (1998). She was named Alumna of the Year by University of Missouri (1993) and Florida State University (1997), and awarded an Honorary Doctorate from Columbia College, Chicago (2002). She also received the Martin Luther King Distinguished Service Award from Florida State University, where she holds a tenured position as the Nancy Smith Fichter Professor in Dance. Zollar directs the Urban Bush Women Summer Institute, an intensive training program in dance and community engagement for artists with leadership potential interested in developing a community focus in their art-making. Jawole was named as Florida State's 2011-2012 Robert O. Lawton Distinguished Professor, the highest award granted to FSU faculty.



Learn to OpenStreetMap with GW HMS

With climate change and increasing tensions in the world causing displacement of people and other humanitarian crises it is important to have up-to-date maps for humanitarian aid use. OpenStreetMap is the most efficient mapping tool for humanitarian aid workers to use as it is free, open-source, and volunteer populated--Google Maps requires extensive licensing paperwork and permissions to use which can cost aid workers valuable time (that they do not have) in a crisis. Given that this data is so easy to access, it is used in the public and private sector by organizations such as: The World Bank, USAID, Médecins Sans Frontières/Doctors Without Borders, MissingMaps, the GeoCenter, and many more. Join us and learn valuable skills in OpenStreetMap and HOT Tasking Manager, creating data to be used for humanitarian aid projects.



WORKSHOP 1 PRESENTER INFORMATION

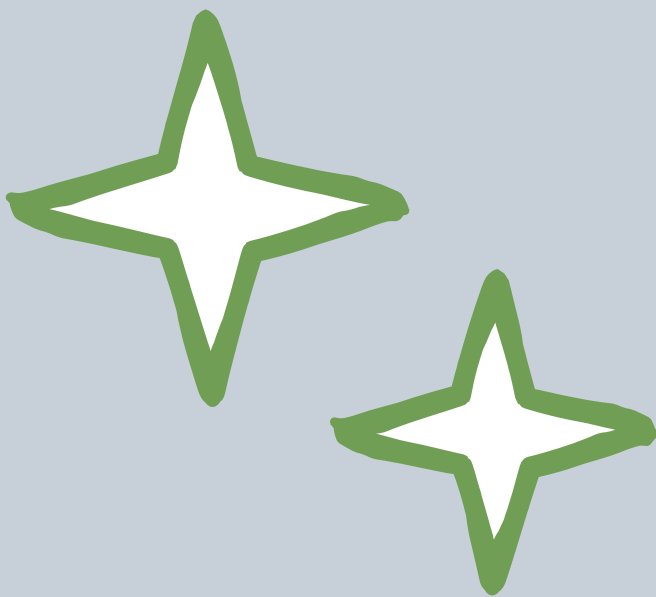
Noelle Dwyer

Noelle Dwyer is a fourth year Undergraduate student at George Washington University studying Engineering Applied Science & Technology with a minor in GIS. She is the President of GW's youthmappers chapter--Humanitarian Mapping Society--and has experience working with OpenStreetMap (OSM) in a variety of contexts: developing a Flood Vulnerability Analysis, leading & participating in mapathons, validating data uploaded to OSM, running spatial queries in OverpassTurbo & QGIS to filter through OSM data.



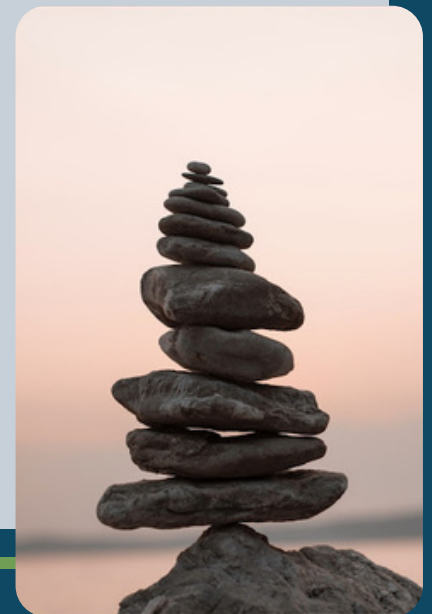
Destress, Decompress, and Move! Yoga for Focus and Relaxation

Being a graduate student is stressful. Yoga can help! This yoga class, designed specifically to mitigate the stressful effects of graduate school, works to promote the body's ability to focus and relax. Please wear comfortable clothes you can move in. The instructor will provide modifications for different levels of experience in yoga.



Hannah Fazio

Hannah is a fourth-year Ph.D. Candidate in theatre and performance research with a master's degree in drama therapy from NYU. She has been teaching yoga for over a decade, and has taught classes in many spaces including studios, private homes, schools, domestic violence shelters, and rehabilitation facilities. Hannah works to make classes accessible for different bodies and levels of experience.

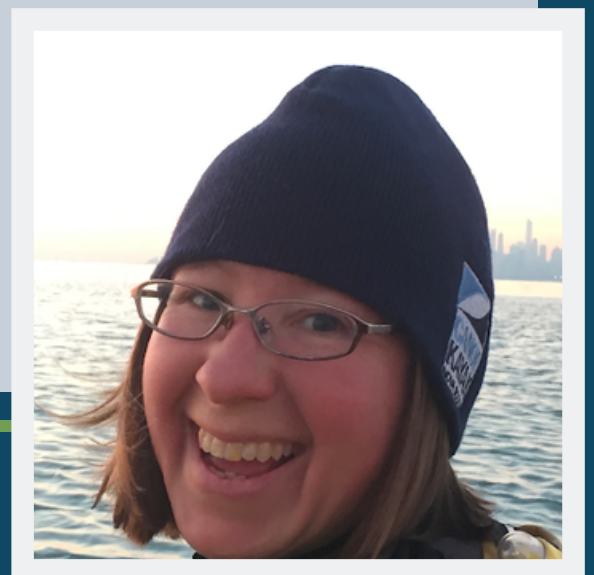


Navigating the Urban Wilderness; Increasing Creativity and Efficacy through Interdisciplinary Work

As an Adventure Sports coach and a Social Worker directing an organization that works with marginalized youth, I've become more and more fascinated by the overlap of effective coaching, sound Social Work, thoughtful leadership, and careful attention to Anti Oppressive Practice. While the research in these areas at first seems disparate and unrelated, undertaken by entirely separate communities, when the research in each area is wrestled into practical applications, the practice derived from each has surprising areas of overlap. I believe there's tremendous creativity and efficacy in the work done in those areas of overlap. I'll use these particulars of my own work to explore the importance of interdisciplinary work in general and the impact it can have on the world.

Andrea Knepper

As a child, whenever Andrea's family went anywhere even slightly close to water, her mother would take a spare set of clothes – because Andrea would end up IN the water. The outdoors had a huge impact on her, impacting who she is as a human being. Partly because of this, in 2006, by then a Licensed Clinical Social Worker, Andrea founded Chicago Adventure Therapy (CAT) and has been the director since. CAT works with Chicago youth who wouldn't usually get the chance to get outdoors, using outdoor sports to build life skills. Andrea puts a strong emphasis on leadership and community building. In addition, she has been teaching paddlesports and leading adventure travel trips since 1998. In 2015 she became the 7th North American woman to earn the 5 Star Sea Leader Award, and in 2016 became the second American to earn the UKCC Level 3 Coach Award. In 2019 she took a sabbatical from CAT and paddled the American West Coast from the northwest tip of Washington to San Diego Bay. As a coach and a clinician, Andrea believes that paddling, learning, and growing should be fun, challenging, accessible and engaging. She works to individualize her delivery in an attempt to provide everyone with a challenge and an opportunity to learn in a way that is effective for them.



Interactive AI

What happens after a machine learns? It takes the knowledge it's given and uses it to shape the world. It makes decisions. Machine learning agents make choices for us every day: They decide how to apply photo filters, what products to market, and who to help buy houses. As people living alongside machine learning agents, it's critical for us to take an active hand in ensuring that the decisions these agents make are ethical and unbiased.

This workshop seeks to empower the audience to take that active hand by providing an exploration of how to think about defining our values algorithmically, with particular emphasis on reducing bias. The topics will include examples from the three major types of machine learning (supervised, unsupervised, and reinforcement learning), with activities designed to help audience members gain familiarity with the ways that algorithms interpret our values.



Christopher Buglino

Christopher Buglino is not an AI, but he does know how to think like one. From machine painted videos to agents that cheat at word games, Buglino's breadth of experience with a variety of machine learning paradigms has given him a deep insight into the ways that algorithms understand, and often misunderstand us. Over the last five years, the experience Buglino has gained by leading machine learning development projects in climate sciences, medicine, aerospace, and the defense industry has instilled in him the belief that the greatest value we can draw from machine learning is its ability to help us understand ourselves.



Ensuring Socio-Cultural Diversity in Research

How do we ensure diversity and inclusion in research? Why is it important to have diverse and inclusive teams when exploring solutions to society's most complex challenges? What does interdisciplinary really mean? The Office of Research Development's (ORD) Collaborative Collision program and the Office of Human Resources' Office of Equity, Diversity, and Inclusion (HR-EDI) are working together to address these questions at Florida State. Join ORD's Strategic Initiatives Manager Mike Mitchell and HR-EDI's Senior Diversity and Inclusion Coordinator Annie Grier for a discussion on creating and sustaining a culture of inclusive excellence in research, and the resources and programs we are using to do so.



WORKSHOP 5 PRESENTER INFORMATION

Mike Mitchell

As Strategic Initiatives Manager at Florida State University, Mike Mitchell specializes in leading programs that leverage the research strengths of a top-20 public university to promote societal impact. His focus areas include building new interdisciplinary teams, identifying opportunities for strategic growth, and connecting researchers and resources to advance creativity and innovation. Mike developed and leads the Collaborative Collision program, a unique framework for building and accelerating new interdisciplinary research teams.



WORKSHOP 5 PRESENTER INFORMATION

Annie Grier

Annie Grier (she/her/Ms) is a macro social worker advancing inclusion, diversity, equity, anti-racism, accessibility and sustainability (IDEAAS) in practice, education, and research. Ms. Grier's commitment to IDEAAS is present in her work as the Senior Coordinator for Diversity & Inclusion at Florida State University and an adjunct professor in social work programs where she instructs on working with organizations & communities, integrating practice with research & evaluation, and understanding human behavior and the social environment through the lens of mass incarceration & reentry.



Conducting Participatory Research

Dr. Jessica Wendorf Muhamad, director of the PEAKS Lab at FSU, will lead a demonstration and discussion on a serious game for social change. PNC, which focuses on the prevention of commercial sexual exploitation of children and was developed using a community-based participatory research approach and a pluridisciplinary team. PEAKS associate Tracy Ippolito will discuss the participatory research as a tool for increasing interest and engagement with science. Pooja Ichplani will overview the applications of community-integrated GIS in strengthening participatory efforts for well-being of vulnerable populations.



PEAKS LAB

PEAKS laboratory (Participatory, Experientially-based Applied Knowledge for Social Change) is focused on developing – through action research – evidence-based interventions for complex social issues.

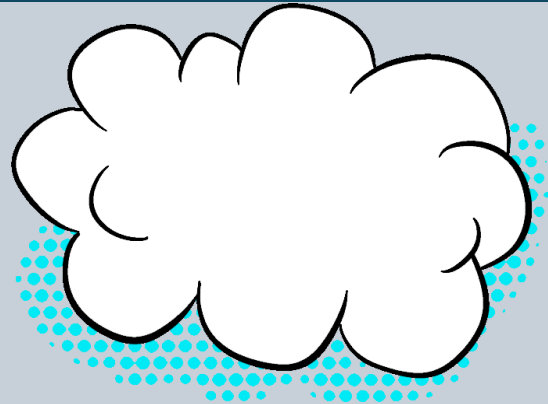


Participatory, Experientially-based Applied Knowledge for Social Change

THANK YOU TO OUR CONFERENCE PLANNING COMMITTEE!

Content Committee

- Efraim Roxas - Chair
- Liam White
- Shayna Harris
- Sophia Hawkins
- Elaina Gonsoroski
- Rochelle Channer
- Megan Arteaga
- Cameron Campbell



Communications Committee

- Elle Schutte - Chair
- Cameron Campbell
- Rachelle Johnson

Review Committee

- Audrey Jacobs - Chair
- Lexi Bandemer
- Azaryah Wilson
- Hamza Asif
- Nick Ossi
- Ryan Dingman
- Meghan Peltier
- Derek Vaquez
- Susan Rogowski

Financial Committee

- Audrey Jacobs
 - Francis Baffour-Awuah Junior
 - Shreya Bose
-

SPECIAL THANKS TO OUR TEAM
OF LEADERS!

Conference Chair

Stacy Ashlyn

Fellows Society Program Assistant

Cassandra White

Fellows Society Assistant Director

Caity Kelly

Director of the Fellows Society

Dr. Lisa Lisenno

