Lisa Waxman

Department of Interior Design

lwaxman@fsu.edu

Research Interests:

- Sustainability as it relates to the design of the built environment
- Leadership in Energy and Environmental Design (LEED)
- Health and well-being in the built environment

My research focuses on the role of place in well-being, which can include many elements of design, including sustainability.

How a Collaborator Could Help Me:

I have knowledge of the interior environment but would value collaboration with others with more knowledge of building shell and core, as well as neighborhood development.

How I Could Help a Collaborator:

I have knowledge of LEED and how the design of the built environment can lead to more sustainable living

Jian Feng

Department of Biological Science

feng@bio.fsu.edu

Research Interests:

- Epigenetics
- Genomics
- Neuropsychiatric disorders

Environmental factors play a key role on neuropsychiatric disorder development. Epigenetics emerges as an underpinning molecular mechanism to encode environmental alterations into gene expression changes, and ultimately behaviroal outputs. I am studying the epigenetic regulation of neuropsychiatric disorders, such as drug addiction and depression.

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

I am looking for collaborators on bioinformatic data analysis.

How I Could Help a Collaborator:

I have extensive expertise in epigenetics/genomics

Laura Arpan

School of Communication

larpan@fsu.edu

Research Interests:

- Energy use reduction/energy efficiency
- Promotion of pro-environmental behavior
- Understanding adoption of new energy technologies

My research program examines various methods of encouraging pro-environmental behaviors, especially reduced energy use/greater efficiency. My work seeks to understand human motivations for energy use, energy technology adoption, and environmental behaviors in general. Most often, lack of knowledge isn't the reason individuals fail to take needed action – motivation is the problem. I examine how personal values and social norms influence energy and environmental behaviors and how messages or information technologies can motivate behavior change.

How a Collaborator Could Help Me:

By providing access to users of new energy related technologies or occupants of buildings with energy efficiency or environmentally friendly innovations. I would like to survey or interview individuals to determine how they interact with the technologies or buildings and what motivates their actions.

How I Could Help a Collaborator:

I can help those who create technologies or programs to facilitate/encourage pro-environmental behaviors or those who design or manage buildings with energy efficiency or environmentally friendly innovations understand how humans might respond to those innovations and how to better facilitate adoption or adaptation. This is important, as humans sometimes respond in a manner that undermines the goals of the technology or innovation or fail to take actions needed to protect the environment.

Les Beitsch

Department of Behavioral Sciences
and Social Medicine

les.beitsch@med.fsu.edu

Research Interests:

- Health laws' impact on health outcomes
- Public health services research

My research focuses on examing how health policies impact health outcomes. Environmental factors play a large role in this, and my research examines this through a state and local lens.

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

Designing analyses that might contribute to a greater understanding of how health policies can impact health outcomes at the community level.

How I Could Help a Collaborator:

Help environmental science folks examine health impacts of their work, and/or develop proxies for community health impact.

Tingting Zhao

Department of Geography

tzhao@fsu.edu

Research Interests:

- Geographic Information Systems (GIS)
- Urban Sustainability
- Cancer

My research focuses urban sustainability, especially measuring and modeling urban sprawl. I am also interested in cancer disparity resulting from socioeconomic and environmental aspects.

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

I'm looking forward to collaborative publication and grant proposal opportunities for project(s) that can use my GIS expertise or research area.

How I Could Help a Collaborator:

My experience and interest in GIS and spatial analysis methods can be applied to many disciplines.

Ming Ye

Department of Earth, Ocean,
and Atmospheric Science

mye@fsu.edu

Research Interests:

- Hydrology
- Karst
- Biogeochemical Reactions

My research is focused on the impacts of biogeochemical reactions on water quality in various geological setting such as sand and karst media. My expertise is in numerical modeling. I am interested in the interactions between the processes that controls food, energy, and water in terms of environmental sustainability

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

A potential collaborator may help me tackle an environmental problem from a physical/chemical perspective.

How I Could Help a Collaborator:

I can help develop mathematical models for describing environmental problems, and solve the models using numerical methods.

Jeroen Ingels

Coastal and Marine Lab

jingels@fsu.edu

Research Interests:

- Marine Biology
- Ecology
- Environmental Change

My research is focused on marine biology and ecology, benthic ecosystems, climate change, trophic interactions, and meiofauna.

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

I am interested in exploring collaborative proposals.

How I Could Help a Collaborator:

I am interested in exploring collaborative proposals.

Youneng Tang

Department of Civil
and Environmental Engineering

ytang2@fsu.edu

Research Interests:

- Microbial Processes for Water Treatment
- Microbial Enhanced Oil Recovery
- Mathematical Modeling of Microbial Processes

My research is focused on 1) emerging contaminant removal from drinking-water; 2) resource recovery from landfill leachate

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

I am currently looking for collaborators in 1) magnetic separation; 2) cellular and molecular biology (i.e., study of microbial ecology or metabolism); and 3) possibly other areas

How I Could Help a Collaborator:

My lab has a set of equipment such as Ion Chromatography (IC), Gas Chromatography-Mass Spectrometry (GC-MS), and Spectrophotometry to characterize water quality. I also have extensive experience in mathematically modeling microbial processes such as biofilms in water treatment reactors and porous media.

Bruce Locke

Department of Chemical and
Biomedical Engineering

blocke@fsu.edu

Research Interests:

- Water and Air Pollution Treatment
- Green Chemical Processing

My research is focused on the development of non thermal plasma reactors for water pollution treatment and green chemical synthesis. I am currently working on the interactions of non thermal plasma with bacteria for the degradation of organic compounds in gases and liquids and the green chemical synthesis of other species

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

I am looking for expertise in microbial metabolism and bacteria that live in extreme environments. This would be very helpful in developing our research.

How I Could Help a Collaborator:

I am interested in interdisciplinary research and proposals.

Juan Ordonez

Department of Mechanical Engineering

jordonez@fsu.edu

Research Interests:

- Renewable Energy
- Energy Systems Optimization
- Algae Photobioreactors

My research lies within the fields of heat transfer and thermodynamics and their application to the design, modeling and optimization of advanced energy systems. Specific areas of research include modeling and optimization of fuel cells and fuel cell systems, combined heat and power generation, photobioreactors for microalgae growth, optimization of solar energy systems, thermal management, water reduction in power generation, energy-water nexus.

How a Collaborator Could Help Me:

I am looking for collaborators for large-scope proposals.

How I Could Help a Collaborator:

I can provide expertise on modeling and optimization of energy systems, and their environmental impact.

Henry Carretta

Department of Behavioral Sciences
and Social Medicine

henry.carretta@med.fsu.edu

Research Interests:

- Chronic Disease
- Autism
- Alzheimers'

My research focuses on service utilization by adults with Autism covered by Medicare, program evaluation for Florida Medicaid waivers, and program evaluation for a behavioral health and physical health integration project

How a Collaborator Could Help Me:

I am looking for collaborators for grant proposals on topics of mutual interest

How I Could Help a Collaborator:

Data management and analysis of very large medical claims files and other secondary data sources.

Content knowledge about the epidemiology of various chronic disease.
Program evaluation methods.

David Markell

College of Law

dmarkell@law.fsu.edu

Research Interests:

- Climate Change
- Environmental Compliance and Enforcement
- Citizens' Roles

My research focuses on legal issues related to climate change, enforcement of environmental regulations, citizens' roles in the environmental policy, and the role of technology in governance

How a Collaborator Could Help Me:

I am looking for collaborators for grant proposals on topics of mutual interest

How I Could Help a Collaborator:

I have published six books and more than 40 articles and book chapters on administrative law and environmental law topics including climate change, compliance and enforcement, and North American environmental law and policy. Four articles have been selected since 2000 through an annual peer review process as worthy of special recognition as contributions to legal scholarship in the field of environmental law.

Bill Landing

Department of Earth, Ocean, and Atmospheric Science

wlanding@fsu.edu

Research Interests:

- Water Quality
- Air Quality
- Marine Biogeochemistry

My research focuses on atmospheric inputs to the oceans which supply biologically-essential trace elements (such as Mn, Fe, and Co) and are responsible for supporting phytoplankton growth a large regions of the global ocean. We collect aerosol samples on research cruise and study their chemistry and solubility to quantify the deposition (flux) of these essential trace elements to the oceans.

How a Collaborator Could Help Me:

We would welcome collaborators who can use advanced imaging and analytical techniques (such as SEM/EDAX) to enable imaging of the aerosol particles and improve our understanding of what they are composed of.

How I Could Help a Collaborator:

We have developed a variety of analytical methods to study the chemistry of particles, and those could be applied to the chemical analysis of all types of materials (nano-particles, soils and sediments, biological samples (like whole organisms or tissues).

Daniel Hallinan

Department of Chemical and
Biomedical Engineering

dhallinan@fsu.edu

Research Interests:

- Energy Storage
- Membrane Separations for Potable Water

My research focuses on polymer membranes which can be used for safer, longer-lasting batteries, water purification/desalination, and for carbon dioxide capture.

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

We are looking new materials and for pressure-driven separation equipment.

How I Could Help a Collaborator:

We synthesize amphiphilic block copolymers, form membranes, and conduct transport experiments.

Christopher Uejio

Department of Geography

cuejio@fsu.edu

Research Interests:

- Climate Change
- Water Quality
- Extreme Heat

My research focuses on Environmental Health, Health/Medical Geography, Infectious Diseases, Climate Variability & Change, Resilience & Vulnerability, Adaptation, Indoor Environments, Extreme Heat, Personal Heat Exposure, Mosquitoborne Diseases, Water Quality

I am currently working on a proposal How can healthcare facilities can become more resilient to extreme events, and how outdoor workers cope with extreme heat.

How a Collaborator Could Help Me:

I'm looking for collaborators with experience in:

- Design and test portable environmental sensors
- Biomarkers
- Laboratory Animal Studies
- Investigators working with cohorts of people
- Post-traumatic Stress Disorder

How I Could Help a Collaborator:

I provide expertise in:

- Epidemiology
- Applied Statistics
- Social Media Analysis
- Computer Mapping,
- Climate Change Projections

Andy Opel

School of Communication

aopel@fsu.edu

Research Interests:

- Environmental Communication Campaigns
- Documentary Video Production
- Climate Visuals

My research focuses on partnering with interdisciplinary teams to use video to tell visual stories about environmental issues. For example, The Climate Witness Project is an effort to harness the power of personal narrative combined with visual presentations of data trends that confirm the eye witness account of a changing climate.

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

I am looking to work with interdisciplinary teams that want to include a visual, public impact component to the project.

How I Could Help a Collaborator:

I am able to help other collaborators by bringing the video production and communication campaign strategy to a project.

Jessi Halligan

Department of Anthropology

jhalligan@fsu.edu

Research Interests:

- Paleoenvironmental reconstruction and human response
- Sea level rise and archaeological site preservation
- Peopling of the Americas

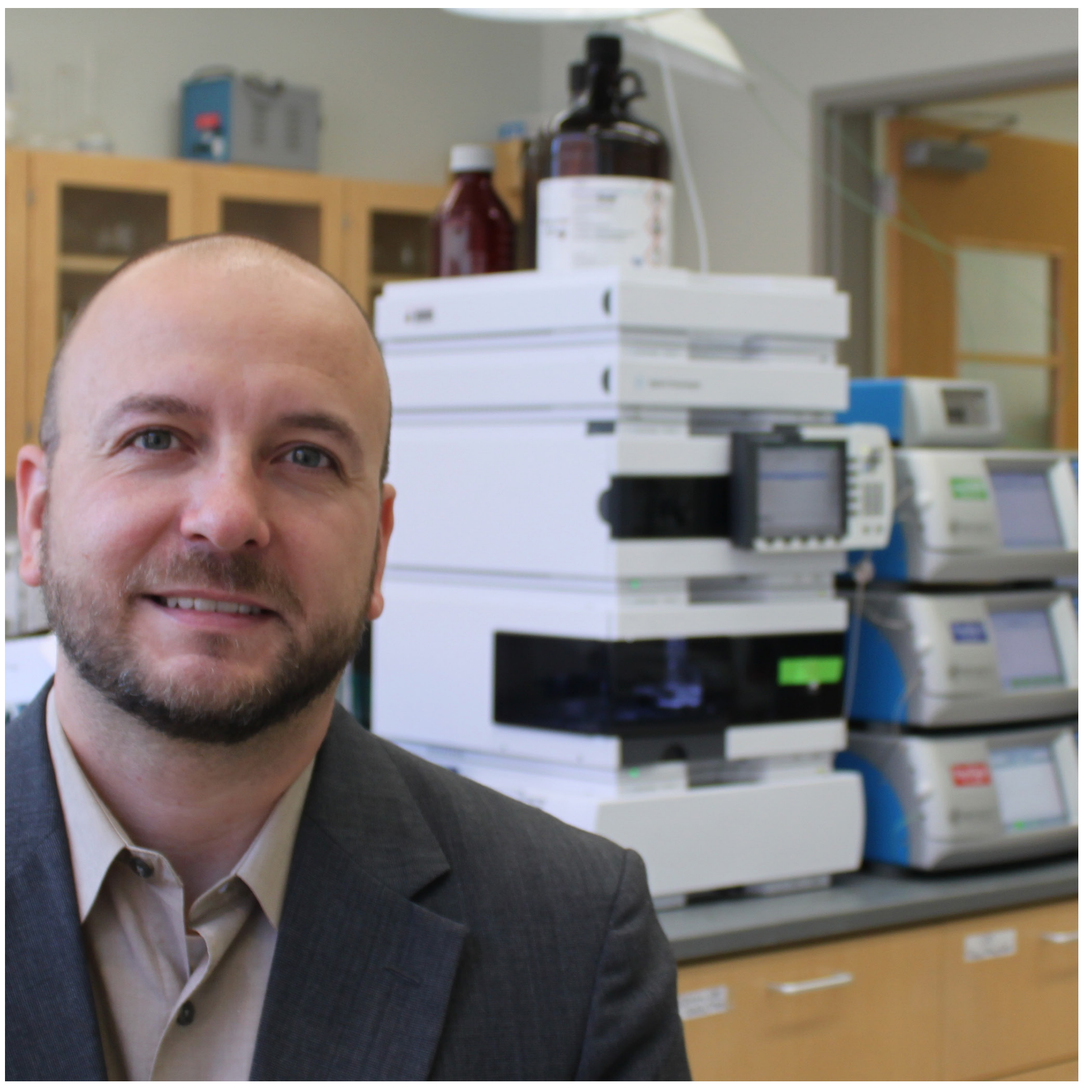
I am a geoarchaeologist studying the first colonization of Florida and the environmental changes that occurred during the end of the Pleistocene, including sea level rise, megafauna extinction, and major cultural changes. I am working on proposals to collect paleoenvironmental data from numerous archaeological sites dating to the last 15,000 years in this area of Florida. This will include sediment analysis as well as archaeological excavations.

How a Collaborator Could Help Me:

I am looking to work with some other paleoenvironmental researchers who may be able to look at these data in ways I have not yet considered

How I Could Help a Collaborator:

I will be collecting a great deal more paleoenvironmental data, and since it comes from archaeological contexts, it is at greater resolution that many other similar projects.



Justin Kennemur

Department of Chemistry and Biochemistry

kennemur@chem.fsu.edu

Research Interests:

• Sustainable and Degradable Materials, Textiles, and Plastics

The Kennemur Research Group uses modern polymerization chemistry to produce frontier specialty materials for a variety of potential applications. We are using top platform chemicals from the refinement of agricultural waste to produce new polymers (plastics) from a synthetic approach. The sustainable source of these chemicals in addition to their potential for improved biodegradability will lead to alternative plastics from sources other than petroleum and potentially reduce the pollution footprint of plastics in our environment.

We are currently working on a proposal in this area.

How a Collaborator Could Help Me:

Chemical Engineers working on biomass refinement can help provide and identify new feedstocks for use in plastics development.
Marine Ecologists can provide insight and controlled oceanic environments (water pH, temperature, salinity) to test developed plastics for decomposition.
Biologists can help determine if decomposition by-products are environmentally benign and non-toxic.

How I Could Help a Collaborator:

Many plastics from biomass are also safe for use in the medicinal fields. Materials with specific properties that are not met by currently available systems may be targeted from a synthetic approach and refinement of structure-property relationships.

Sophie McCoy

Department of Biological Science

mccoy@bio.fsu.edu

Research Interests:

- Climate Change
- Marine Ecology
- Carbon Cycle

My research focuses on climate change ecology, marine ecology, community ecology, and ecophysiology. I am currently working on a proposal on the physiological mechanisms of carbon use in seaweeds and how this scales up to community composition of seagrass communities in the Gulf of Mexico.

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

A collaborator can help me branch out into different applications of my skills, specifically in community ecology and ecophysiology

How I Could Help a Collaborator:

I can provide an ecological perspective to other systems not traditionally considered in that way (from a community angle to a population angle)

Tyler McCreary

Department of Geography

tmccreary@fsu.edu

Research Interests:

- Indigenous Peoples
- Resource Development

My research focuses on Indigenous relationships with resource development. I follow the question of land, thinking through the legal, political, and cultural geographies that inform how people organize relationships to environment. Second, I engage how Indigenous politics interface with labour markets. My research documents different scales of struggle over access to jobs—including the workplace, Indigenous territories, and state policy. Third, I explore community development, primarily using community-based research methodologies. Through this work, I have been interested in questions of social reproduction and how the structures of services such as food retailing and education impact the ability of Indigenous families to maintain and reproduce themselves on both a daily and generational basis.

How a Collaborator Could Help Me:

I am interested in potential research collaborations that bridge understanding natural-social systems as linked, but require a natural scientist to build that bridge. I also want to meet scholars working with Indigenous communities.

How I Could Help a Collaborator:

My strengths lie in working with Indigenous communities and conducting community-based research. I am interested in how we can evaluate the social impacts of resource development.

Eric Coleman

Department of Political Science

ecoleman@fsu.edu

Research Interests:

- Environmental Policy
- International Development

My research focuses on Oil and gas in Uganda, and deforestation in India.

How a Collaborator Could Help Me:

I am interested in identifying others at Florida State interested in these areas from difference disciplinary perspectives.

How I Could Help a Collaborator:

I am interested in multidisciplinary research and proposals.

Denise Von Glahn

College of Music

dvonglahn@fsu.edu

Research Interests:

- Acoustic Ecology
- Music and Environment
- Music and Cultural Geography

My research has focused on music, place, culture, and identity. My current project explores the different narratives that can be teased out of similar natural environments, specifically rivers. I use as my starting point composer Annea Lockwood's piece "A Sound Map of the Hudson River," to consider how preserving and combining select sounds suggests an idyllic environment. I am interested in the potential for music and the arts to increase environmental awareness and sensitivity. My ultimate goal is increasing people's awareness of our complicity in the health of the environment.

How a Collaborator Could Help Me:

I welcome the expertise and input of collaborators in the sciences, especially, who see the potential of the arts to heighten awareness of and increase people's attention to the environment.

How I Could Help a Collaborator:

I can provide a perspective seldom invited or considered valuable in contemporary discussions of environmental issues or initiatives, that of the musicologist.

Shi-Ling Hsu

College of Law

shsu@fsu.edu

Research Interests:

- Climate Change
- Carbon Taxation
- Climate Adaptation

My research focuses on Economic implications of carbon taxation, climate policies, state and local government policies on climate change.

How a Collaborator Could Help Me:

I have graduate degrees in Ecology and Economics, but don’t actively use my training. A collaborator might help me draw those out.

How I Could Help a Collaborator:

Although I don’t actively use my ecological and economic training, I am literate enough to work with those in those areas.

James Elsner

Department of Geography

james.elsner@gmail.com

Research Interests:

- Weather
- Climate
- Storms

My research focuses on human vulnerability to tornadoes. Primarily I am interested in why some areas of the country are more vulnerable to tornado casualties than others.

How a Collaborator Could Help Me:

I am looking for a collaborator to help identify demographic data, and to assist with modeling building and interpretation.

How I Could Help a Collaborator:

I have expertise in spatial statistical models.

John Mathias

College of Social Work

jmathias@umich.edu

Research Interests:

- Environmental Justice
- Climate Change
- Environmental Ethics

My current research explores experiences of and beliefs about climate change in Florida. I plan to study how the differing values of climate change believers, skeptics, and deniers may inform their experiences of the natural world and vice-versa.

How a Collaborator Could Help Me:

I have only recently arrived at FSU and am mainly looking for interlocutors whose interests, broadly speaking, intersect with my own.

How I Could Help a Collaborator:

I have extensive experience in ethnographic research and community engagement, both internationally and within the US. I have conducted anthropological research on environmental justice and community organizing in India.

Jeff Chanton

Department of Earth, Ocean,
and Atmospheric Science

jchanton@fsu.edu

Research Interests:

- Greenhouse Gas Emissions
- Peatland Organic Matter Preservation
- Sea Level Rise

My current research explores the response of large organic stores to perturbations, particularly temperature changes. I am also interested in shore line erosion on barrier islands.

How a Collaborator Could Help Me:

I am looking for collaborators who have expertise in GIS, mapping, and various types of chemical analysis.

How I Could Help a Collaborator:

I am willing to lend my expertise to potential projects of mutual interest.

Jill Pable

Department of Interior Design

jpable@fsu.edu

Research Interests:

- Environments for Homeless Persons
- Environmental Psychology

My current research focuses on improving the design of architectural environments for disadvantaged populations. I am interested in identifying psychological association cues prompted by homeless shelter physical architecture that support or suppress residents' sense of self identity
I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

I am always seeking collaborators from other allied fields, especially psychology, social work and similar. I am interested in partnering and learning from someone with an eye toward quantitative analysis.

How I Could Help a Collaborator:

I can brainstorm problems and research questions well. I also manage a non-profit website organization called Design Resources for Homelessness (designresourcesforhomelessness.org) where findings can be disseminated for practical adoption by members of the public, design practitioners and researchers.

Vasu Misra

Department of Earth Ocean and Atmospheric Science

vmisra@fsu.edu

Research Interests:

- Tropical Meteorology
- Climate Variations
- Climate Change

My current research focuses on climate projection over Florida using regional climate models; Understanding Indian monsoon variations; Predicting size and rainfall volume of tropical cyclones. I am interested in examining the tropical Atlantic variations in climate models and observations.

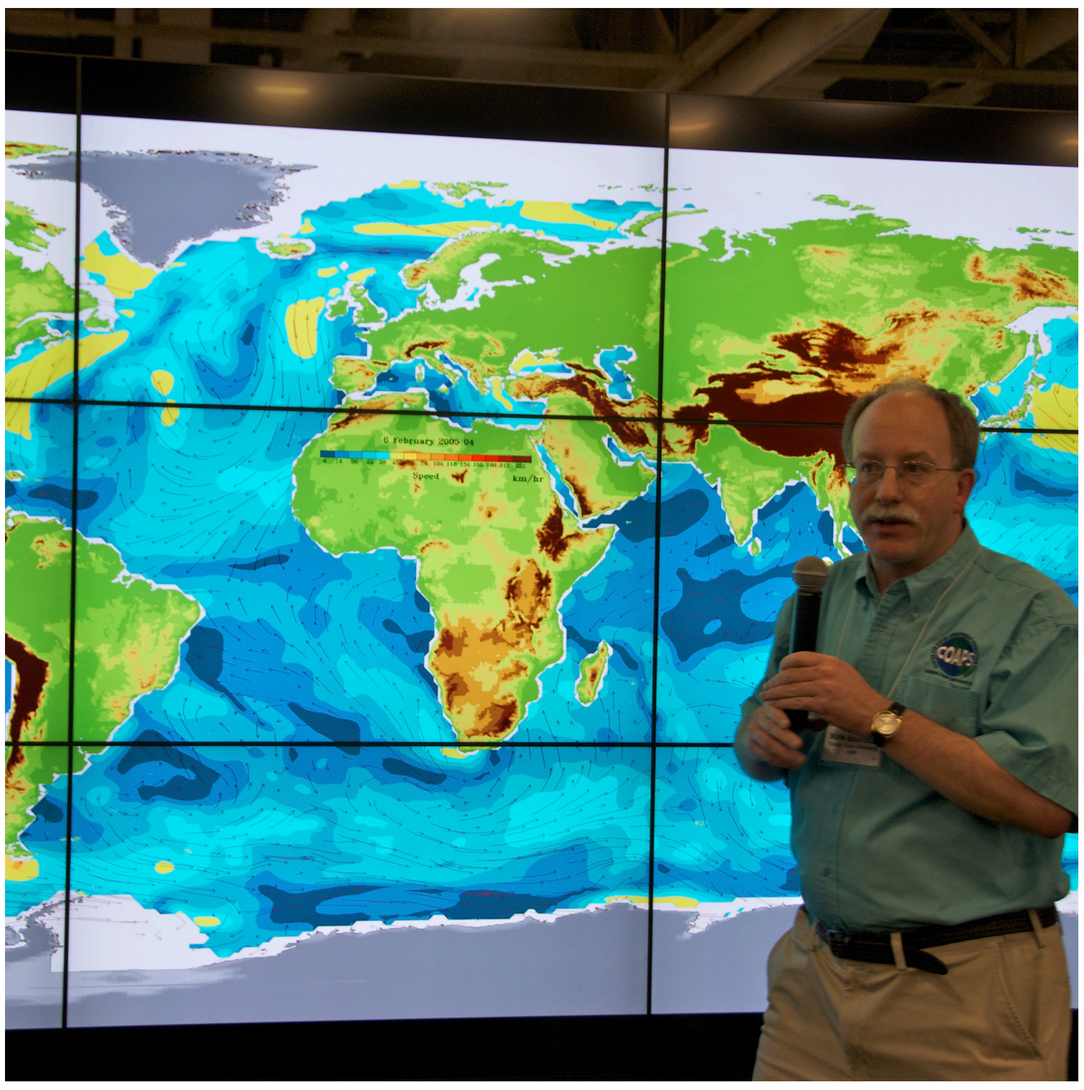
I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

I am looking to expand in areas climate applications in human health, risk assessment and management, energy generation/consumption and water management.

How I Could Help a Collaborator:

I can provide climate related data either for current and or future climate over a specific region outside of the polar latitudes.



Mark Bourassa

Center for Ocean Atmospheric
Prediction Studies

mbourassa@fsu.edu

Research Interests:

- Air/Sea Interaction
- Remote Sensing
- The Earth Observing System

My research topics are related to (1) remote sensing of weather, typically ocean winds and monsoons rain and clouds, (2) Development of remote sensing of surface currents (and in situ validation), (3) Improving understand of physical processes governing air/sea interaction, and (4) practical applications of all the above.

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

Colleagues with expertise in related areas are very useful in making more use of the knowledge gained and in developing interdisciplinary goals for science and applications.

How I Could Help a Collaborator:

I can speak language of meteorologists, physical oceanographers and engineers. I know the capabilities and limitations of most types of atmospheric and ocean observations. I am familiar with the process for developing satellite missions and in situ observing programs, as well as national and international collaborators. If the coupling between atmosphere and ocean is an important part of the problem, my group is among the best to work with.

James Justus

Department of Philosophy

jjustus@fsu.edu

Research Interests:

- Environmental Ethics
- Environmental Decision Making
- Philosophy of the Environmental Sciences

My research focuses on the philosophy of science, environmental philosophy, formal epistemology.

How a Collaborator Could Help Me:

Invite me to contribute to proposals for which a conceptual / ethical / theoretical aspect makes a philosophical perspective potentially useful

How I Could Help a Collaborator:

I could contribute to project proposals that include a conceptual / ethical / theoretical component for which a philosopher might have valuable input.

Tanya Peres

Department of Anthropology

tanya.peres@fsu.edu

Research Interests:

- Human-Environment Interactions
- Niche Construction
- Human Management of Animals

I'm interested in the relationships between humans and their environments, and humans and animals - especially in terms of animals as subsistence and resources that were managed. I work on archaeological sites that date from ca. 9000 BP to AD 1704. My main focus is the Southeastern US, but I also maintain research interests in Mexico, Panama, and Scotland. Two recent projects focus on turkey population management ca. AD 1300 in the American South and the other on the management of freshwater gastropods ca. 9,000 BP.

How a Collaborator Could Help Me:

A potential collaboration is someone that is willing to think outside the box, be interested in how humans have manage might be skilled in stable isotope analysis, ancient DNA, radiometric dating, archival research, textual analysis, digital humanities, or environmental reconstruction

How I Could Help a Collaborator:

I have access to well preserved environmental datasets that date back to at least 9000 years ago from the interior Southeast and to approximately 3500 years ago from the Gulf Coast of Florida (Big Bend and Ft. Myers Beach area).

Jocelyn Elya

Center for Ocean Atmospheric
Prediction Studies

jelya@coaps.fsu.edu

Research Interests:

- Marine Data Informatics
- Computer Science
- Marine Meteorology

My research is in marine data management and informatics, searching for new, efficient ways to process and serve marine meteorological and near-surface oceanographic data to the user community in well-documented, easy-to-use formats.

How a Collaborator Could Help Me:

Potential collaborators could help explore new ways to process and serve marine data and expand the Marine Data Center's reach with interdisciplinary projects and outreach initiatives.

How I Could Help a Collaborator:

I can lend my expertise in scientific programming and marine data management.

Tim Chapin

Department of Urban and
Regional Planning

tchapin@fsu.edu

Research Interests:

- Coastal Development Patterns
- Regional Land Planning
- Large Landscape Preservation

My research focuses on analyzing development patterns and development outcomes in coastal communities in Florida, and promoting sustainable development policy in local, regional, and state government.

How a Collaborator Could Help Me:

As Dean of the college, I welcome opportunities to build connections within and outside of FSU with Environmental faculty in the College of Social Sciences and Public Policy

How I Could Help a Collaborator:

I have substantial experience seeking and securing state resources to support applied research, having worked with several state agencies, including the Florida Departments of Transportation; Emergency Management; Economic Opportunity; and Environmental Protection.

Annika A. Culver

Department of History

aculver@fsu.edu

Research Interests:

- Environmental History
- Ornithology
- Wildlife/Bird Conservation

My current research is on Oliver L. Austin, Jr., an American ornithologist who worked for the Allied Occupation of Japan to set up wildlife and conservation policies for the Supreme Commander of the Allied Powers. I am interested in how he related to other Japanese scientists and engaged in successful collaborative research during a time of the emerging Cold War, and when Japan was embracing democracy post-WWII while shedding its militaristic past--including in biological research. International collaboration becomes a means for the Japanese scientists to re-enter the world stage through peaceful, transnational endeavors with their former enemy.

How a Collaborator Could Help Me:

I would like to learn more about the actual practice of ornithology in the US. This includes personal interviews, going on a bird-banding expedition here in Florida, looking at how birds are caught for study in US mist-nets, and hearing about the latest trends in the field in comparison to the early and mid-twentieth century. How are birds now protected in the US? How do American ornithologists exchange information and collaborate with colleagues internationally?

How I Could Help a Collaborator:

I can bring a historical perspective to the study of environmental problems. My focus on East Asia could also allow a scientist or sociologist access to sources to understand the histories and cultures of the nations that I research historically. I also teach a graduate course at FSU entitled, “The Environmental History of East Asia,” which covers the modern to contemporary period and how industrialization and modernity impacted the natural and human environment in China, Japan, and Korea

Yangxing Zheng

Center for Ocean Atmospheric
Prediction Studies

yzheng@fsu.edu

Research Interests:

- Variability of Asian-Australian Monsoon System
- Physical Meteorology
- Large-scale Ocean-atmosphere Interaction

My research focuses on understanding the physical processes and mechanisms that modulate Asian-Australian monsoons.

How a Collaborator Could Help Me:

I am looking for a collaborator to provide environmental research and/or applications associated with the Asian monsoons and air-sea interaction.

How I Could Help a Collaborator:

I can provide knowledge and guidance to solving environmental problems related to variability of monsoons as well as air-sea interaction.

Erin Ryan

College of Law

eryan@fsu.edu

Research Interests:

- Environmental, Natural Resources, and Water Law;
- Multilevel Environmental Governance and Negotiated Federalism
- Space Law and Extraterrestrial Natural Resources

I am a national expert on multilevel environmental governance, negotiated governance, and environmental federalism, including statutory programs of cooperative environmental federalism in the U.S. (e.g., the Clean Air and Water Acts) and unfolding environmental governance efforts in China. I also work on water resources, climate governance, and am venturing into the regulation of natural resources in space.

How a Collaborator Could Help Me:

I would be open to considering interdisciplinary collaborations that partner environmental law and science in pursuit of meaningful real-world application

How I Could Help a Collaborator:

I am willing to lend my expertise to potential projects of mutual interest.

Steven Morey

Center for Ocean Atmospheric
Prediction Studies

smorey@fsu.edu

Research Interests:

- Ocean Circulation and Modeling
- Fisheries Oceanography
- Coastal Oceanography

My current research focuses on understanding and simulating ocean circulation from very small scales to basin scales using observations and numerical modeling. Most of my research projects have direct applications to problems in marine ecology, oil spill prediction, coastal inundation, air-sea interaction, and marine engineering

I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

I am always looking to collaborate with researchers from other disciplines who are investigating topics for which ocean physics may play a role. Collaborations leading to novel applied research will open up more funding opportunities as funding for basic research in ocean science dwindles.

How I Could Help a Collaborator:

I am experienced in collaborating with scientists from a diverse array of disciplines. I have the ability to effectively communicate my results to collaborators with different expertise, and to learn from others so that we can synthesize our results to effectively address problems that are interdisciplinary in nature.

Ryan Rodgers

National High Magnetic
Field Laboratory

rodgers@magnet.fsu.edu

Research Interests:

- Oil Weathering
- Oil Toxicity
- Molecular Characterization of Contaminants

My current research focuses on understanding molecular characterization via high resolution mass spectrometry and chromatographic separations.

I am currently working on a proposal in this area, related to the weathering of oil from the Deepwater Horizon spill.

How a Collaborator Could Help Me:

I am always looking to collaborate with researchers who can provide expertise in biology, microbiology, and other areas of environmental science.

How I Could Help a Collaborator:

I provide expertise in analytical chemistry / understanding the molecular composition of complex mixtures and how they change.

Horacio Rousseau

College of Business
Department of Management

hrousseau@business.fsu.edu

Research Interests:

- Environmental Nonprofits,
- Community Sustainability
- Corporate Response to Environmental/Social Challenges

My current paper extends prior research on value creation to the context of nonprofit organizations and explores the institutional conditions under which environmental nonprofits create social value by improving the environmental performance of their communities. Our framework combines strategic and institutional tenets to uncover how institutional actors shape social value creation.

How a Collaborator Could Help Me:

I am looking to develop interdisciplinary research collaborations that may enhance our understanding of how different types of organizations may help their communities become more sustainable

How I Could Help a Collaborator:

By offering a management/organization theory lens into the phenomenon. I also have a large dataset of US communities and nonprofits that may be interesting for doing research

John Lowe

College of Nursing

jrlowe@fsu.edu

Research Interests:

- Indigenous/Native American health disparity/health equity

My research focuses on Health Disparitites and Health Equity among Indigenous and Native American populations.

How a Collaborator Could Help Me:

I am looking for collaborators who can help study the environmental impact on opioid use/misuse among Indigenous communities, and the environmental impact on obesity/diabetes among Indigenous communities.

How I Could Help a Collaborator:

As one of the few Native American and Indigenous nurse scientists in the United States and world-wide, I conduct research that impacts the health of Native American and Indigenous communities. Our health disparity and health equity issues, in particular substance use and obesity/diabetes, are impacted by environmental factors.

Andrew Rassweiler

Department of Biological Science

rassweiler@bio.fsu.edu

Research Interests:

- Ecology
- Conservation Biology
- Natural Resource Management

I am a marine ecologist who studies how spatial regulations for managing natural resources can be designed to achieve both conservation and economic goals. This work has mostly focused on the design of marine protected areas, although I am also interested in regulations for other activities (e.g., fisheries, aquaculture).

How a Collaborator Could Help Me:

I ask questions at the interface between ecology and social science, but my training is in ecology, so collaborating with researchers who understand the human side of those questions is essential. I also study systems across large spatial scales, working with people who understand the key physical processes (e.g., ocean currents) that structure marine systems. My best work has been made possible by combining methods and perspectives from across disciplines.

How I Could Help a Collaborator:

I can develop ecological or biological simulation models, or assemble and analyze large data sets. I am a population and community ecologist with quite broad interests, and am willing to collaborate on a wide range of topics. My work has mostly been on spatial questions about nearshore marine systems, but has regularly ranged outside those boundaries.

Cheryl Xu

Department of Mechanical Engineering

cxu@fsu.edu

Research Interests:

- Material
- Aerospace
- Automation

My research focuses on the advanced manufacturing of multifunctional ceramic composites, especially on their electric/dielectric and thermal properties, and manufacturing, high temperature sensor design and manufacturing Manufacturing process optimization and control through artificial intelligence, and understanding the fundamental physics of advanced manufacturing process and integrating machine learning into manufacturing process.

How a Collaborator Could Help Me:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Rob Duarte

Department of Art

rduarte@fsu.edu

Research Interests:

- Fine Art
- Critical Design
- Waste Material Recovery

REBOOT Laboratory is a studio in which artists and designers work collaboratively with the lab's director Rob Duarte to create works that utilize the waste materials produced by capitalism and conspicuous consumption. Our approach is rooted in the visual arts and is driven by our collective knowledge of process, materials, and hands-on experimentation.

How a Collaborator Could Help Me:

In addition to collaborative art and design projects based around waste materials, we are interested in how these materials can be used in projects from other domains - particularly those where the source and history of the material can be acknowledged and considered. Specifically, we are interested in collaborating on projects that might incorporate waste plastic material, or environment-related projects that produce objects, instruments, or tools related to consumer waste.

How I Could Help a Collaborator:

The REBOOT Laboratory is housed at the FSU Facility for Arts Research, which has space and power for equipment that might benefit a collaborative project. We are also able to collaborate on thinking about design and fabrication related issues. The lab itself houses some small-scale, in-house tools for working with waste plastic to create individual objects or prototypes. These resources can be brought to bear on projects that have the potential to acknowledge and consider the social, cultural, political, or environmental implications of waste material, as well as its physical, formal, and aesthetic qualities.

Sastry Pamidi

Department of Electrical and
Computer Engineering

pamidi@eng.famu.fsu.edu

Research Interests:

- Electrical Energy/Power Efficiency
- Superconducting Power Systems
- Renewable Power Integration

My research focuses on energy efficiency through superconducting power systems.

How a Collaborator Could Help Me:

I am looking for collaborators to help with environmental impact studies of reduced power consumption and increased energy efficiency of superconducting power systems.

How I Could Help a Collaborator:

I can be partner in large scale power system modernization studies with superconducting technologies and renewable integration.

Richard Feiock

Askew School of Public
Administration and Policy

rfeiock@fsu.edu

Research Interests:

- Environmental Urban Policy

My research focuses on Urban Infrastructure for Healthy Sustainable Cities, Sustainability Governance, Green Buildings, Virtual Information Framework for data sharing, and Smart and Connected Cities.

How a Collaborator Could Help Me:

I am looking for collaborators for potential multidisciplinary proposal opportunities.

How I Could Help a Collaborator:

I can be provide social science, government, governance and policy expertise in multidisciplinary contexts.

Gang Chen

Department of Civil and
Environmental Engineering

gchen@eng.fsu.edu

Research Interests:

- Contamination Remediation,
- Climate Change and
- Contaminant Fate and Transport

My current research focuses on solid waste management and leachate treatment nutrient cycling, and biochar applications.

How a Collaborator Could Help Me:

I am looking for collaborators to help with watershed modeling.

How I Could Help a Collaborator:

I can provide expertise in nutrient fate and transport, laboratory and field data, and antimicrobial fate and transport mechanisms.

Simon Foo

Department of Electrical and
Computer Engineering

sfoo@fsu.edu

Research Interests:

- Solar Cells
- Machine Learning
- Micro- and Nano-sensors

My current research focuses on the design and fabrication of high-efficiency polymer solar cells, artificial intelligence and big data analytics, design of electronic sensors for remote sensing.

How a Collaborator Could Help Me:

I am looking to collaborate with someone who has an interesting application(s) where data analysis or remote sensing is needed.

How I Could Help a Collaborator:

I can provide solutions in the areas of renewable energy and remote sensing.

Michael Blaber

Department of Biomedical Sciences

michael.blaber@med.fsu.edu

Research Interests:

- Translational Research
- Protein Folding
- Protein Design

My current research focuses on protein folding, evolution & design.

How a Collaborator Could Help Me:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Raphael Kampmann

Department of Civil and
Environmental Engineering

kampmann@eng.fsu.edu

Research Interests:

- Sustainable Construction Materials
- Cementitious Materials
- Structural Materials

My group focuses on traditional and emerging construction materials. We often conduct verification tests, but also focus on novel materials via fundamental research. It is our intention to improve the sustainability of construction materials, and specifically the cement industry.

How a Collaborator Could Help Me:

The group would benefit from researchers that focus on atomistic modeling and/or analyses of materials. Researchers with an interest in Market Analyses, Industry Development, Global CO2 Emissions, or Sustainability Issues During Manufacturing would be valuable collaborators as well.

How I Could Help a Collaborator:

We provide expertise in the design and testing of materials (for construction). From nano-scale analysis, material-scale testing, to destructive experiments at the structural-scale, we can assist with proofs of concepts and verification testing.

Tisha Holmes

Department of Urban and
Regional Planning

ttholmes@fsu.edu

Research Interests:

- Climate Change
- Hazards Planning
- Coastal Planning

I am working on a project which evaluates regional and local government planning responses to sea level rise in Florida. I am also engaged in a program that administers the CDC Building Resilience against Climate Effects (BRACE) initiative in Florida. We work with county health departments to develop adaptation projects and evaluation plans in responding to the threats posed by climate change to human health.

How a Collaborator Could Help Me:

Collaborating with scholars working on climate change modelling, ecological and/or economic impacts of climate change will enable me to link the planning process and community engagement research with projections and impact assessments in order to better inform my analysis/recommendations.

How I Could Help a Collaborator:

I can contribute by developing applied community level / action based research components on projects through survey data collection/analysis and participatory planning, visioning and scenario building exercises with marginalized and vulnerable groups.

Lisa Spainhour

Department of Civil and
Environmental Engineering

spainhour@eng.famu.fsu.edu

Research Interests:

- Transportation Safety
- Infrastructure Sustainability

As department Chair, I work with out faculty in a variety of areas, including:

- Environmentally friendly biological treatments for drinking water
- In-place bio-remediation of contaminated soil and groundwater
- Landfill covers that reduce both greenhouse gas emissions and groundwater pollution
- Sustainable building design and construction models
- Development and testing of durable, sustainable infrastructure materials
- Composting techniques for sewage wastes
- Reducing transit times and emissions with green shipping vessel and truck freight scheduling

How a Collaborator Could Help Me:

Our department is looking for additional collaborators to further our multi-disciplinary research approach.

How I Could Help a Collaborator:

The CEE department has experienced faculty and well-equipped labs for both environmental chemistry and materials testing.

Tarek Abichou

Department of Civil and
Environmental Engineering

tabichou@fsu.edu

Research Interests:

- Geoenvironmental Engineering
- Sustainable Solid Waste Management
- Measuring Modeling and Mitigating Fugitive Emissions from Landfills

My expertise is in the areas of Geoenvironmental Engineering, Geotechnical Engineering , Sustainable Solid Waste Management , Measuring, Modeling, and Mitigating Fugitive Emissions from Landfills, Greenhouse Gas Emissions Inventories, Beneficial Use Of Industrial By-Products in Civil Engineering Applications. I am currently developing The Florida Methane Institute. The main focus of the institute is to provide synergy to house and focus methane emission reduction related research performed by different research groups under one entity.

How a Collaborator Could Help Me:

I am looking for collaborators to help with methane detection sensors, atmospheric modeling, and advanced materials.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Sven Kranz

Department of Earth, Ocean &
Atmospheric Science

skranz@fsu.edu

Research Interests:

- Phytoplankton Ecology
- Climate Change
- Water Quality

"Why and how does phytoplankton respond to environmental disturbances". I am manipulating the environment in which phytoplankton is growing to measure direct responses (growth, elemental composition, toxin production) and additionally measure underlying processes likely causing these responses (productivity, photosynthesis, C-acquisition). Based on this research we can predict how primary producers will be affected by climate change and other environmental disturbances and how these organisms in turn can affect the environment.

How a Collaborator Could Help Me:

I am looking to connect the basic research conducted in my lab with the applied research from state agencies. I'd like to identify local funding sources for ecosystem research including phytoplankton eco-physiology.

How I Could Help a Collaborator:

I can identify metabolic and physiologic processes behind phytoplankton responses to environmental disturbances based on laboratory studies in order to predict large scale responses in the field

Reza Arghandeh

Department of Electrical and Computer Engineering

r.arghandeh@fsu.edu

Research Interests:

- Smart Grids and Smart Cities
- Big Data Analysis
- Sustainability

My research focues on data-driven management of infrastructure networks considering the interdependence of the technical and social networks especially in cities. Mathematical problems that we are dealing with are classification, clustering, estimation, and fusion for spatiotemporal and sociotechnical datasets.

How a Collaborator Could Help Me:

I am looking for collaborators with following backgrounds for our smart city projects: environmental science, public health, meteorology, sociology, community behavior analyst, computer science, statistics, and mathematics.

How I Could Help a Collaborator:

My expertise is in system engineering, electricity networks, and data analysis. We use machine learning, network theory and statistics for smart grids and smart cities.

Debra Ann Fadool

Department of Biological Science

dfadool@bio.fsu.edu

Research Interests:

- Obesity
- Neuromodulation of Ion Channels
- Sensory Systems

We are researching learning, memory, and neural plasticity at the level of the ion channel protein. Our main stay in the laboratory is biophysics, specifically a technique called patch-clamp electrophysiology, where we can measure single conformational changes in ion channel proteins that elicit electrical signals, essentially the language of the brain.

How a Collaborator Could Help Me:

We are interested to learn more about exercise physiology, voluntary running, and in vivo activation of ChR via laser optics.

How I Could Help a Collaborator:

We can screen ion channel activity by patch-clamp electrophysiology (brain slice, heterologous expression, or optogenetics), assist in protein biochemistry, olfactometry, or collect metabolic chamber systems physiology measurements.

Allison Wing

Department of Earth, Ocean
& Atmospheric Science

awing@fsu.edu

Research Interests:

- Tropical Cyclones
- Tropical Convection
- Climate

I am an atmospheric scientist and I study tropical convection, tropical cyclones, and climate. My current research includes the organization of tropical convection and how this modulates tropical and global climate and climate sensitivity and the process of tropical cyclone formation, and also have interests in the extreme weather and climate and the variability of tropical cyclone intensity. I use theory, idealized numerical modeling, and analysis of observations and comprehensive climate models to tackle these problems.

How a Collaborator Could Help Me:

I'm looking to expand my research focus to additional areas such as of variability of tropical cyclone intensity and extreme weather and climate, and so am interested in potential collaborators with ideas in those areas and/or interest in applications of my basic science research on tropical cyclones and tropical convection.

How I Could Help a Collaborator:

I can provide expertise on the physics and dynamics of tropical cyclones, organization of tropical convection, climate science, and meteorology, as well as experience with idealized cloud-resolving modeling.

Sarah Lester

Department of Geography

slester@fsu.edu

Research Interests:

- Marine Conservation Science
- Natural Resource Management
- Social-ecological Resilience and Vulnerability

I am a marine scientist who focuses on conducting research to inform marine natural resource management, marine policy and the design of effective marine conservation measures. I have particular expertise in marine protected areas, sustainable fisheries management, marine spatial planning, and offshore aquaculture. I have a funded project to assess the status of small-scale reef fisheries and to inform the design of fisheries management regulations and marine spatial plans at several islands in the Caribbean in collaboration with a private foundation.

How a Collaborator Could Help Me:

I am interested in finding new collaborators at FSU from different disciplines that share my broad interests in marine and coastal management, policy and conservation. Given my home in the Department of Geography, I am particularly interested in questions with a strong spatial dimension.

How I Could Help a Collaborator:

I have considerable experience working on projects that involve broad syntheses of large datasets or scientific literature. I am also a scientific diver with extensive experience conducting intertidal and subtidal ecological field work in a variety of ecosystems around the world.

Juan Ospina

Center for Advanced Power Systems

jjo11e@fsu.edu

Research Interests:

- Renewable Energy
- Energy Management
- Distributed Energy Resources

Development optimal control systems developed for being deployed in the Smart Grid. Development of power system models designed to test the behavior of these control systems and their deployment in the electrical grid by performing real-time simulation.

How a Collaborator Could Help Me:

A potential collaborator could help us by providing research data (information), expert advice or insights of the industry, or by providing resources for continuing the research projects.

How I Could Help a Collaborator:

We can provide to a potential collaborator the results obtained from our research projects, which could be translated into the commercialization of a product or the development of a new technology.

Nico Wienders

Department of Earth, Ocean
& Atmospheric Science

wienders@fsu.edu

Research Interests:

- Ocean Circulation
- Pollution Tracking
- Engineering

I am a physical oceanographer and study the motions of the ocean via observations or numerical modeling. Recent studies address the Gulf Stream separation, multiphase convection in the Gulf of Mexico or forced and intrinsic variability of the North Atlantic Ocean. Recently I have deployed my own instrument which is now patent pending: The Stokes Drifter

How a Collaborator Could Help Me:

I have received a GAP grant from FSU's Office of Research/Commercialization to further develop my instrument and prepare its commercialization. I am at the moment researching the best ways to produce plastic hulls (via injection/vacuum forming, rotomolding, etc.) I am also looking for partners and investors for the commercialization process.

How I Could Help a Collaborator:

I will be happy to collaborate with anybody with interests in the ocean surface circulation. The ocean upper layer is of crucial economic and environmental importance while at the same time the location where most pollutions occur nowadays.

Eren Ozguven

Department of Civil and
Environmental Engineering

eozguven@fsu.edu

Research Interests:

- Traffic Safety
- Urban Mobility
- Smart Cities

My research focues on efficient traffic operations, providing accessibility and safety to the public, including aging populations, with a specific focus on smart cities and urban mobility.

How a Collaborator Could Help Me:

My research also focuses on air pollution based on the vehicle traffic in the context of smart cities, and this can directly be linked with environmental research.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Jessica Pryce

College of Social Work

Jpryce@fsu.edu

Research Interests:

- Child Welfare
- Community Preventive Services
- Education and Training

My research focues on statewide accountability of child welfare programs.

How a Collaborator Could Help Me:

I’m looking for collaborators to Discuss how environmental hazards and stressors impact child safety and family capacity.

How I Could Help a Collaborator:

Merging the environmental research with child safety.

William Butler

Department of Urban
and Regional Planning

wbutler@fsu.edu

Research Interests:

- Climate Change Adaptation
- Collaborative Forest Restoration
- Ecological Fire Management

I work under the broad area of social-ecological resilience with sub-interests in climate change adaptation to hazards and sea level rise, ecological restoration of forest ecosystems and communities that are resource dependent and fire adapted, and food systems planning.

How a Collaborator Could Help Me:

Potential collaborators can help by contributing to a multi-disciplinary team that broadens the conceptual frameworks and diversifies empirical approaches to better understand and more effectively respond to complex environmental problems.

How I Could Help a Collaborator:

I can provide social sciences research capacity focusing on social processes and policy and political context variables on a range of topics. My methods generally are qualitative and theory generating.

Neda Yaghoobian

Department of Mechanical Engineering

nyaghoobian@fsu.edu

Research Interests:

- Land Atmosphere Interaction
- Urban Microclimate
- Energy Efficiency and Sustainability

In general, my research is about numerical study of thermo-fluid dynamics in the lower atmosphere using turbulent flow simulations and heat transfer analyses. Some of my topics are about turbulent flow over heterogeneous roughness (e.g. urban areas and plant canopies) with complex/realistic thermal boundary conditions obtained through energy balance analyses.

How a Collaborator Could Help Me:

I'd welcome any collaboration in environmental related issues or any other topics that involves land-atmosphere interaction, as well as land surface energy balance analysis.

How I Could Help a Collaborator:

My work is in general computational that involves atmospheric turbulent flow simulations in and over complex topographies. It also involves energy balance and heat transfer analyses over land surfaces.

Kourosh Shoele

Department of Mechanical Engineering

kshoele@fsu.edu

Research Interests:

- Wind Turbine
- Wave Energy Harvesting
- Vegetated Surfaces

In general, my research is about numerical study of thermo-fluid dynamics in the lower atmosphere using turbulent flow simulations and heat transfer analyses. Some of my topics are about turbulent flow over heterogeneous roughness (e.g. urban areas and plant canopies) with complex/realistic thermal boundary conditions obtained through energy balance analyses.

How a Collaborator Could Help Me:

I am studying problems at the interface between mechanics and physics through developing and applying mathematical and computational tools with a focus on fluid-structure interaction, renewable energies, biolocomotion and biomechanics.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Austin Mast

Department of Biological Science

amast@bio.fsu.edu

Research Interests:

- Plant Systematics
- Biodiversity Informatics
- Citizen Science

My research program involves topics within the broadly defined area of biodiversity study. I am particularly interested in (1) the interplay of ecology and evolution that determines the form and function of plant life on Earth and (2) the use of biodiversity research specimens and digital information about them to bring that interplay into sharper focus.

How a Collaborator Could Help Me:

I'm looking for a credentialed evaluator.

How I Could Help a Collaborator:

I am an expert in the creation and use of digital data about the world's ca. 3 billion museum specimens. I am part of the leadership team for iDigBio, NSF's National Resource for Advancing Digitization of Biodiversity Collections, and I am Director of FSU's Robert K. Godfrey Herbarium.

Kathleen Klepfer

College of Law

kklepfer@law.fsu.edu

Research Interests:

- Law
- Regulations
- Public Policy

I will be co-teaching an Energy, Environmental, and Land Use Legal Research class in the Spring at the College of Law.

How a Collaborator Could Help Me:

I'm interested in current trends and legal issues in the environmental, energy, and land-use arenas. I am interested in creating video interviews of researchers who deal with environmental issue.

How I Could Help a Collaborator:

As a law librarian, I can help collaborators locate legal resources, break down complicated regulatory schemes, and connect researchers to specialized environmental law databases.

Ronald E. Doel

Department of History

rdoel@fsu.edu

Research Interests:

- History of Science
- Environmental History
- Arctic

I write on the history of the recent environmental sciences, including the military's interest in the earth sciences (including climate change) in the first half of the Cold War. Other current book projects include a biography of the earth scientist M. King Hubbert, key in developing the concept of peak oil.

How a Collaborator Could Help Me:

My own particular research area may be of interest to others. Historians are often lone wolves--and we benefit from becoming involved in larger efforts.

How I Could Help a Collaborator:

Interdisciplinary collaborations often work best when they span the humanities and social sciences as well as the natural sciences. I have been involved in several such projects, including one that addressed the history of the environment in the Arctic in the 20th century.

Jeffrey Chagnon

Department of Earth, Ocean &
Atmospheric Science

jchagnon@fsu.edu

Research Interests:

- Extreme Weather Events
- Fire Weather
- Weather in a Changing Climate

I am working on various topics related to improving our understanding of and ability to predict weather and climate. Most of my research concerns the role that clouds play in driving or modifying circulation.

How a Collaborator Could Help Me:

I am interested in knowing about what kinds of improvements in forecasts of the weather would be of most benefit to industry and society (e.g., what phenomena? over what sized areas? what variables --- rain, winds, temperature? on what time scales?).

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Christianne Beekman

Department of Physics

beekman@magnet.fsu.edu

Research Interests:

- Condensed Matter Physics
- Applied Physics
- Clean Technologies

Current research includes strain-engineering of optical, magnetic and electronic properties of thin films of complex oxides.

How a Collaborator Could Help Me:

We grow films of complex oxides in which we strain-engineer optical, magnetic and electronic properties. One goal is to use these materials to design heterostructures of strongly-correlated oxides for electronics and photovoltaics. We can help with the growth, characterization and measurement of new functional materials.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Jon Oetting

Institute of Science and
Public Affairs

joetting@fnai.fsu.edu

Research Interests:

- Species Habitat Modeling
- Ecological Landscape Integrity
- Climate Change Adaptation for Natural Resources

I'm involved in several conservation planning projects (usually involving GIS), including prioritizing lands for acquisition by the Florida Forever program, prioritizing species habitat conservation priorities, and anticipating impacts of climate change on natural resources.

How a Collaborator Could Help Me:

We do not have particular expertise in detailed local/regional climate change projections, or valuation of ecosystem services. Also hydrological expertise with respect to natural systems and species habitat. Coastal and marine aquatic ecosystems. Advanced statistical analysis.

How I Could Help a Collaborator:

Our shop has considerable GIS analysis skills (especially raster analysis), remote imagery and land cover interpretation, natural community classification, land management needs for species and communities, rare species status and locations, environmental database management, and data visualization through mapping.

Christopher Holmes

Department of Earth, Ocean &
Atmospheric Science

cdholmes@fsu.edu

Research Interests:

- Air Pollution
- Greenhouse Gases
- Atmospheric Chemistry

Our research group uses computer models and observations to understand the changing atmosphere and Earth. Our research studies air pollution, greenhouse gases, and their interactions with weather, climate, and the biosphere. Our current research topics include how air pollution damages plants and forests, climate and health impacts of prescribed fire in the Southeast US, modeling changes in composition of the Arctic atmosphere as sea ice recedes, global mercury pollution, and using satellite observations to monitor atmospheric photochemistry.

How a Collaborator Could Help Me:

We seek partners in government and academia with expertise in the health, economic, and ecosystem impacts of air pollution and climate change.

How I Could Help a Collaborator:

We can provide regional and global simulations of air pollution and atmospheric composition and aid in satellite remote sensing of atmospheric composition.

Clifton Callender

College of Music

clifton.callender@fsu.edu

Research Interests:

- Music Composition
- Music Theory
- Mathematics and Computation in the Arts

I am a composer heavily influenced by ideas from mathematics and science.

How a Collaborator Could Help Me:

I would love to collaborate with FSU researchers and artists for a concert/ symposium focusing on environmental themes tentatively scheduled for the 2018–2019 academic year.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Shawn Smith

Center for Ocean
Atmospheric Prediction Studies

smith@coaps.fsu.edu

Research Interests:

- Marine Meteorology
- Offshore Wind Energy
- Geoscience Informatics

I run a marine data center at COAPS that focuses on collection and quality evaluation of weather and ocean data from ~30 research vessel, that develops products using satellite-based ocean vector wind instrumentation.

How a Collaborator Could Help Me:

Primarily we are seeking collaborators in the engineering, environmental planning, and policy areas interested in offshore wind energy. We are working to develop a consortium of experts that are interested in pushing forward plans for offshore renewable energy development in the waters surrounding Florida and the rest of the Gulf of Mexico.

How I Could Help a Collaborator:

We are experts in marine meteorology and surface oceanographic observation from ships, moorings, and satellite platforms. We have a long history of managing these types of observations and are well connected to both the U.S. and International communities responsible for making these observations. We also have a broad expertise in geoscience informatics, ranging from semantic web technology, distributing data to users using advanced web service technology, and working with a wide range of data formats, controlled vocabularies, etc.

Vincent Salters

Department of Earth, Ocean &
Atmospheric Science

salters@magnet.fsu.edu

Research Interests:

- Mercury Cycling
- Volcanism,
- Cycling of Trace Metals in the Environment

My research focuses on trace element and isotope geochemistry to determine the fluxes of elements in and on Earth.

How a Collaborator Could Help Me:

Provide expertise complementary to mine on environmental and earth systems.

How I Could Help a Collaborator:

Providing access to high quality elemental and isotopic data that covers 70-80% of the periodic table.

John Felkner

Department of Urban and
Regional Planning

jfelkner@fsu.edu

Research Interests:

- Environmental Impact of Transportation Projects
- Socio-ecological Resilience
- Environmental Impacts of Urbanization

My research focuses on evaluating the socio-economic, socio-ecological and environmental impacts of urbanization and transportation in developing countries, and the implications for urban and regional planning and policy that can achieve more sustainable socioeconomic and socio-ecological outcomes.

How a Collaborator Could Help Me:

Expertise in socio-ecological dynamics in developing countries; environmental or socio-ecological impacts of transportation networks, primarily developing countries; econometrics; survey analysis, transportation analysis.

How I Could Help a Collaborator:

GIS and spatial analysis; socio-economic impact evaluation; econometric analysis; environmental research experience in Southeast Asia, Africa and Latin America; environmental science and policy in developing countries.

Jada Brooks

College of Nursing

jada@email.unc.edu

Research Interests:

- Health Disparities
- Environmental Health
- Nursing

My research program advances knowledge of inflammation as a potential biological pathway linking environmental pollutant exposure and psychosocial factors to cardiovascular disease in American Indian women. The goal of this work is to promote environmental health equity among American Indian women.

How a Collaborator Could Help Me:

I would like to work with a potential collaborator to develop potential grant applications that focus on advancing the health of American Indians or other underrepresented ethnic minorities.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Melessa Kelley

College of Nursing

mnkelley@fsu.edu

Research Interests:

- Diabetes, Obesity, and Environmental Factors that Impact Health

My area of current research interest is in Native American obesity and diabetes and genetic and environmental influences that impact health outcomes.

How a Collaborator Could Help Me:

I would like to work with a potential collaborator to help with environmental influences on health outcomes such as diabetes in obesity particularly rural communities.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Juan-Carlos Galeano

Department of Modern
Languages and Linguistics

jgaleano@fsu.edu

Research Interests:

- Poetry
- Cultures of the Amazon Basin
- Filming

I am a poet and scholar in multispecies relationships and a documentary filmmaker. My work foregrounds the environmental justice issues and complex symbolic oral narratives of peoples of the Amazon basin.

How a Collaborator Could Help Me:

I am looking for potential partners with experience in grant writing or expertise in seeking funds for the making of documentary film. Additionally, we would collaborate to market, distribute, research festivals and find outreach opportunities for the film. The goal of this collaboration would be to use the film as a critical means for awareness to the cultural responses of Amazonians through their storytelling on the environmental degradation of the Amazon river and tributaries as a result of deforestation, plastic pollutants and oil drilling in the region, overfishing and dredging of major rivers.

How I Could Help a Collaborator:

Having two decades of experience in fieldwork, scholarly interpretation of oral narratives, and doing creative work on belief systems in traditional cultures in the Amazon basin, I could help a collaborator in the design of projects that involves creative writing interpretative forms and audiovisual mediums such documentary film portraying relationships between people and their environment in any other parts of the Earth.

Kristina Buhrman

Department of Religion

kbuhrman@fsu.edu

Research Interests:

- Disasters
- History of Climate
- Japan

My current research focuses on a study of the historical trends in the reporting, recording, and memorialization of disasters (earthquakes, tsunami, typhoons, floods, and famines) in Japan from the classical (650 - 1050 CE) through the modern periods.

How a Collaborator Could Help Me:

Help identify work in geology and climate science relevant to the history of natural disasters in Japan, as well as projects to which research on the historical memory of disasters could contribute.

How I Could Help a Collaborator:

I can provide historical context to and reading of written and inscribed records of disasters in Japan, East Asia. Also information on responses to disasters in Japan in different times in history.

Tian Tang

Askew School of
Public Administration and Policy

ttang4@fsu.edu

Research Interests:

- Clean Energy Technology Innovation
- Environmental and Energy Policy Analysis
- Smart and Sustainable Urban Governance

My research is at the intersection of environmental and energy policy, technology policy, and policy implementation through cross-sectoral collaboration in the context of global climate change and sustainability.

How a Collaborator Could Help Me:

I am interested in working with government collaborators and researchers in the fields of information and communication technology, urban planning, electric engineering, and transportation to study how to better integrate and utilize emerging smart technologies and big data to achieve urban sustainability.

How I Could Help a Collaborator:

Providing socio-economic analysis to understand human and organizational behaviors in response to any environmental, technological, or policy change.

Robert Ross

Department of Earth, Ocean
& Atmospheric Science

rross@fsu.edu

Research Interests:

- Climate Change
- Tropical meteorology

I am currently studying long-term temperature changes over India as related to climate change. I am also studying the potential impact of research in the social sciences and the humanities as important contributors, along with the natural sciences, in our attempts to solve the critical climate change problem.

How a Collaborator Could Help Me:

My formal education is in the natural sciences (atmospheric science). I would like to collaborate with professors from the social sciences and humanities to address in a very broad way the climate change problem. The natural sciences, while indispensable in solving the climate change problem, cannot do it without input from the social sciences and humanities.

How I Could Help a Collaborator:

I can bring natural scientific knowledge of climate change to a collaboration with professors from the social sciences and humanities. I have spent several years in self-study with regard to how some of those disciplines might come into contact with the natural sciences toward solving this critical problem.

James M Fadool

Department of Biological Science

jfadool@bio.fsu.edu

Research Interests:

- Developmental Biology
- Neural Degeneration
- Disease Models

Our broad goals are to uncover new genes and novel genes function essential for the development of the eye and underlying degenerative disease of the visual system. We take advantage of the oft cited benefits of the zebrafish as a genetic model of vertebrate development and human disease to specifically investigate the specification, patterning and degeneration of the rod and cone photoreceptor, the light sensing cells in the back of our eyes.

How a Collaborator Could Help Me:

We hope to expand our approaches to better incorporate bioinformatic tools and experimental expertise for analysis of gene regulatory elements, and refine our small molecule and chemical screens to accelerate the identification of agents or potential cellular targets for slowing the progressive vision loss in our models of inherited dystrophies.

How I Could Help a Collaborator:

We can provide expertise to help you and your trainees take advantage of the power of zebrafish genetics as novel approach to answer basic biological questions or as models of human disease. We will gladly work with collaborators interested in applying genome editing tools to generate precisely defined genetic lesions of inherited disorders in any organ system. We can help generate transgenic lines expressing fluorescent reporter genes to track an array of dynamic cellular processes and help your staff to take full advantage of available imaging resources on campus.

Xiaolin Zhang

Department of Earth,
Ocean & Atmospheric Science

xz12j@my.fsu.edu

Research Interests:

- Climate Dynamics
- Interannual and Intraseasonal Predictability
- The Global Hydrologic Cycle

I'm trying to explore how the ocean responses to the rainfall and wind stress forcing near the Inter-Tropical Convergence Zone as well as in the eastern equatorial Pacific ocean and how it's related to ENSO prediction.

How a Collaborator Could Help Me:

My past research mainly focused on exploring the dynamics of ocean and improving the interannual and intraseasonal prediction. But I also would like to learn how these information can be used in environmental related topics and what kind of information is helpful for their research.

How I Could Help a Collaborator:

As a Physical Oceanographer and climate scientist, my research interests are very broad. I have a passion to explore all the aspects related to the dynamics of the ocean and atmosphere. My PhD work mainly focuses on the equatorial dynamics and was trying to answer fundamental questions related to the prediction of ENSO, which is a 2 to 7 year variability in the equatorial Pacific and has a global impact, like the up-welling near Peru, the monsoon in India and the winter temperature in Tallahassee.

Jessica Wendorf Muhamad

School of Communication

jwendorfmuhamad@fsu.edu

Research Interests:

- Hypervulnerable Populations
- Interactive Prevention Interventions
- Participatory Action Research

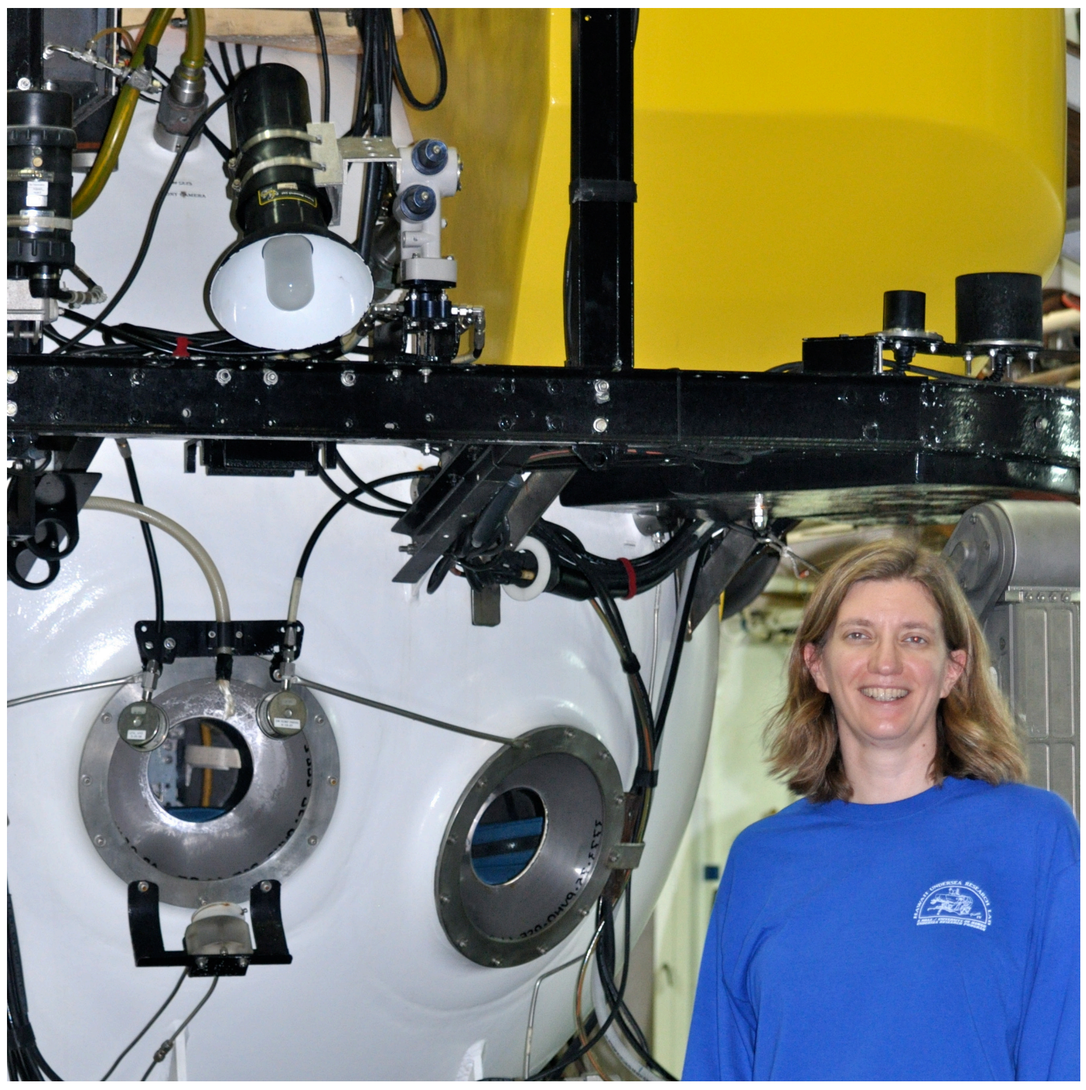
My research focuses on understanding how and why enacted, entertainment-educational experiences (e.g., game-based interventions) influence individuals.

How a Collaborator Could Help Me:

Working with someone from areas such as urban planning, social policy or public health could help in the development of a systems thinking-based research strategy.

How I Could Help a Collaborator:

I possess vast knowledge of the region (Latin America, specifically Colombia) and have secured community buy-in and organizational level support. I have have experience securing funding and developing game-based, public health interventions -- from proposal development and submission to execution and subsequent evaluation.



Amy Baco-Taylor

Department of Earth, Ocean
& Atmospheric Science

abacotaylor@fsu.edu

Research Interests:

- Ecology and Conservation of Benthic Marine Organisms
- Genetic and Genomic Tools to Address Ecological Questions
- Deep-sea Ecology

Most of my research has been focused on deep-sea ecosystems in the Pacific Ocean. The tools and methods I use can be applied to any ecosystem however, and I am hoping to develop new projects focused on shallow and coastal ecosystems in the Gulf and US east coast

How a Collaborator Could Help Me:

I am hoping to develop new projects focused on shallow and coastal ecosystems in the Gulf and US east coast.

How I Could Help a Collaborator:

I can provide genetic/genomic and statistical tools and expertise. I have experience working on basic research that informs management.

Dean Grubbs

Coastal & Marine Lab

dgrubbs2@fsu.edu

Research Interests:

- Marine Conservation
- Fisheries Science

The mission of the FSU Coastal and Marine Laboratory is to conduct innovative, interdisciplinary research focused on the coastal and marine ecosystems of the Wider Caribbean that contributes to solving the ecological problems of the region by providing the scientific underpinnings for informed policy decisions.

How a Collaborator Could Help Me:

FSUCML faculty maintain active, highly collaborative research programs covering a wide array of topics. Much of their research is interdisciplinary and they are always interested in involving new potential collaborators.

How I Could Help a Collaborator:

The FSU Coastal and Marine Laboratory houses significant resources to promote and assist marine and coastal research. The FSUCML is home to the 65' Research Vessel Apalachee as well as a fleet of small vessels from 14' to 28' in length.

Christopher Teaf

Institute of Science and
Public Affairs

cteaf@fsu.edu

Research Interests:

- Toxicology
- Public Health
- Environmental Risk Assessment

My research focuses on human health risk assessment, and the evaluation of contaminated sites.

How a Collaborator Could Help Me:

I am looking to increase my interaction with related disciplines such as environmental engineering, environmental fate & transport, chemistry, epidemiology.

How I Could Help a Collaborator:

I can provide expertise in the areas of public health, toxicology, health risk assessment.

Joseph Grzywacz

Department of Family
and Child Sciences

jgrzywacz@fsu.edu

Research Interests:

- Low-dose, Endemic Environmental Exposures
- Social Stressors
- Interaction of Physical and Social Stressors

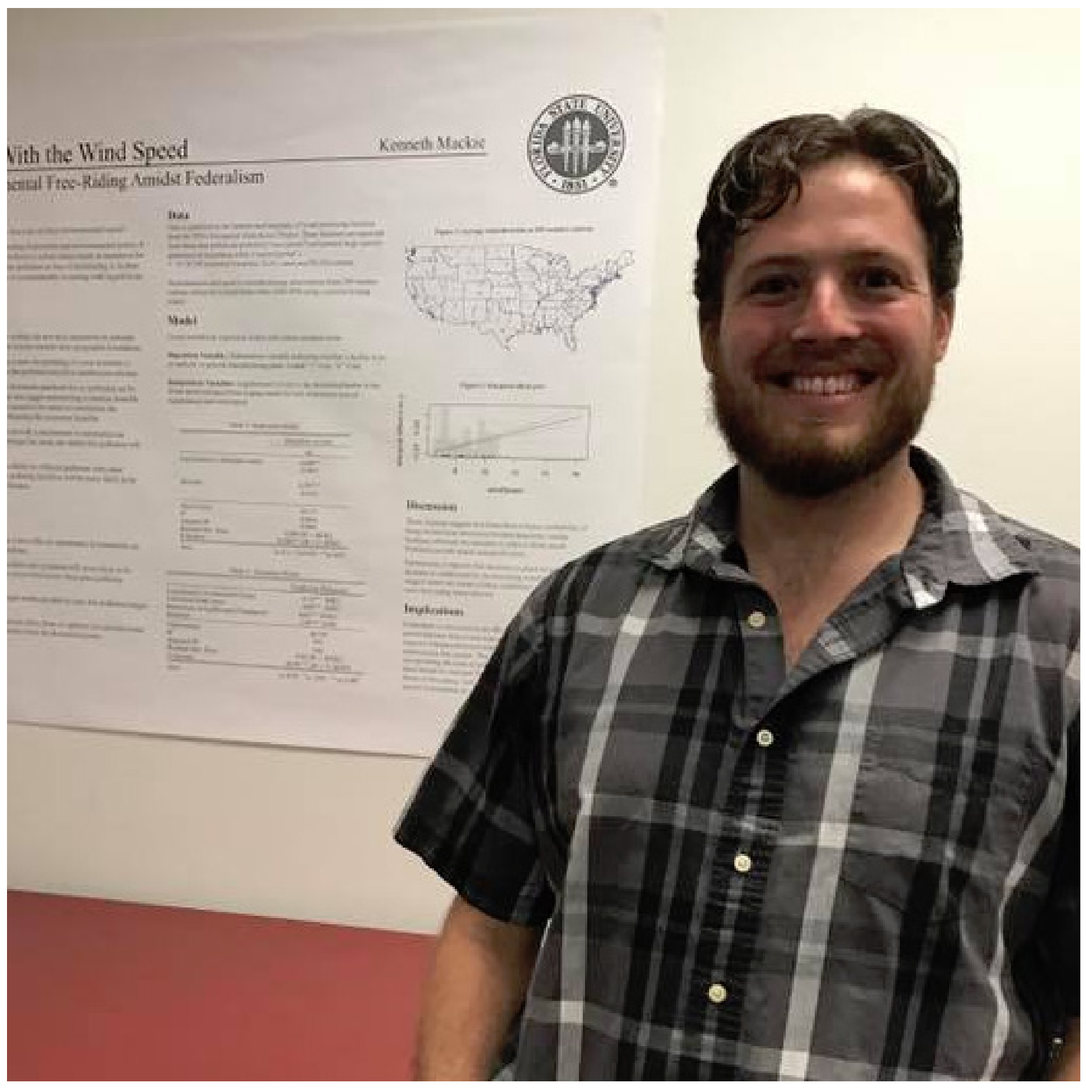
My research program focuses on the health-related implications of everyday work and family life.

How a Collaborator Could Help Me:

Collaboration in alternative matrices for biomarker collection, alternative lab analyses for biomarker detection and quantification, power calculation and statistical design, observational assessment of children's behavior.

How I Could Help a Collaborator:

I have held continuous NIH funding for 15 years, so I can help write award-winning proposals; I have established expertise in community-based participator research methods; I have strong connections in the Latino farmworker community, and expertise collecting a wide variety of data from this population including biomarkers, survey data, device data (e.g., actigraphy, 24-hour diet recalls), qualitative data; I have substantial experience with promotora- or lay health advisor-based intervention designs.



Kenneth Mackie

Department of Political Science

krm16d@my.fsu.edu

Research Interests:

- Climate Change Policy
- Science Literacy
- Inequality (economic & racial)

My research focuses on examining ways to garner support for climate change legislation amongst conservative voters.

How a Collaborator Could Help Me:

I am trying to aggregate knowledge from relatively disparate fields under one framework in order to account for various social/environmental problems (climate change, science literacy, and inequality). A potential collaborator would be an individual capable and excited about systems-level thinking, strong objective reasoning combined with outside the box thinking, and a thorough respect for science, and the scientific method.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Lisa Waxman

Department of Interior
Architecture and Design

lwaxman@fsu.edu

Research Interests:

- Sustainability as it relates to the design of the built environment
- Leadership in Energy and Environmental Design (LEED)
- Health and well-being in the built environment

My research focuses on the role of place in well-being, which can include many elements of design, including sustainability.

How a Collaborator Could Help Me:

I have knowledge of the interior environment but would value collaboration with others with more knowledge of building shell and core, as well as neighborhood development.

How I Could Help a Collaborator:

I have knowledge of LEED and how the design of the built environment can lead to more sustainable living.

Jill Pable

Department of Interior
Architecture and Design

jpable@fsu.edu

Research Interests:

- Environments for Homeless Persons
- Environmental Psychology

My current research focuses on improving the design of architectural environments for disadvantaged populations. I am interested in identifying psychological association cues prompted by homeless shelter physical architecture that support or suppress residents' sense of self identity
I am currently working on a proposal in this area.

How a Collaborator Could Help Me:

I am always seeking collaborators from other allied fields, especially psychology, social work and similar. I am interested in partnering and learning from someone with an eye toward quantitative analysis.

How I Could Help a Collaborator:

I can brainstorm problems and research questions well. I also manage a non-profit website organization called Design Resources for Homelessness (designresourcesforhomelessness.org) where findings can be disseminated for practical adoption by members of the public, design practitioners and researchers.

Susan Fiorito

Jim Moran School of Entrepreneurship

sfiorito@jimmoranschool.fsu.edu

Research Interests:

- Entrepreneurship

Dr. Susan S. Fiorito is the Director of the Jim Moran School of Entrepreneurship, Jim Moran Professor of Entrepreneurship and Entrepreneur in Residence. Dr. Fiorito's research focuses on retailing, small business management and buying and has been featured in a variety of academic journals.

How a Collaborator Could Help Me:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Rebecca Augustyniak

Center for Information Management & Educational Services

raugustyniak@fsu.edu

Research Interests:

- Information Systems and Applications
- Instructional Design and Training
- Information Management

CIMES is a multidisciplinary applied research and development center. We are committed to leading agencies in exploiting the knowledge economy to better serve their target populations through the effective use of information and communication technologies. Our systematic approach to information assets and outreach enables organizations to exceed their strategic and operational goals by transforming complex information into effective communication and learning.

How a Collaborator Could Help Me:

We develop training and information systems for organizations in a variety of disciplines. We often need an SME for projects since we are not subject matter experts in their disciplines.

How I Could Help a Collaborator:

We can provide support for projects that need:

- Custom information systems and applications
- Web portals
- Training materials (print and web-based)
- Clearinghouses and resource centers
- Marketing and outreach services and materials

Bill Green

Department of Physics

Wgreen@fsu.edu

Research Interests:

- Cosmology

My research focuses on the early universe.

How a Collaborator Could Help Me:

I am looking for collaborators to help perform climate change assessment.

How I Could Help a Collaborator:

I have practiced environmental law for 40 years.

Kelly Grove

University Libraries

kegrove@fsu.edu

Research Interests:

- Library Instruction
- Earth Sciences
- Environmental Publications

As an earth sciences librarian I am interested in how to best support researchers, instructors, and students working within the earth sciences.

How a Collaborator Could Help Me:

As a librarian I can help anyone who is looking for a collaborator who can use assistance with data management, help conducting literature review, publication assistance, and I can help them find material pertaining to their topic outside of their discipline.

How I Could Help a Collaborator:

As a librarian I can help anyone who is looking for a collaborator who can use assistance with data management, help conducting literature review, publication assistance, and I can help them find material pertaining to their topic outside of their discipline.

Kristine Harper

Department of History

kcharper@fsu.edu

Research Interests:

- Stmospheric Sciences
- Water Resources
- Desalination

My new research area is focused on US government water resources development during the 20th century, with specific emphasis on desalination projects during the post-World War II period.

How a Collaborator Could Help Me:

I could use some scientific and engineering expertise as I decipher the different desalination methods and their advantages and disadvantages since I will need to explain these in “just plain English” for my readers (I am writing a book).

How I Could Help a Collaborator:

My expertise is in the history of science and technology focused on the 20th century, especially the Cold War period, and on the earth sciences (atmosphere, hydrosphere). I can help put scientific and technological work into historical context, how that work is influenced by governmental entities, and how it is affected by policy-makers.

Mary McCormick

College of Law

mmccormi@law.fsu.edu

Research Interests:

- Energy
- Land Use
- Climate Change

I teach Environmental Legal Research.

How a Collaborator Could Help Me:

I am always interested in the types of research skills that students in environmental programs need.

How I Could Help a Collaborator:

I am looking for collaborators for potential interdisciplinary research and funding opportunities.

Bill Schultz

Department of Political Science

wbs15@my.fsu.edu

Research Interests:

- Natural Resource Management
- Corruption
- Illegal Activity

I am interested in the dynamics of how common-pool resource dilemmas emerge, and the factors driving illegal use of natural resources. My hope is to connect environmental politics research more thoroughly with other topics studied across the social sciences.

How a Collaborator Could Help Me:

I would like to learn how to better connect my current work to topics that interest other environmental researchers. I am also interested in help developing my findings into more compelling recommendations for environmental NGOs.

How I Could Help a Collaborator:

I am familiar with statistical methods via my training as a graduate student in the political science department, and conduct economics-styled laboratory experiments for my own research. I can also help connect research from other fields to related topics studied by political scientists.