

## ESPP Weekly News Roundup

April 8, 2022

### ESPP News & Announcements

- [ESPP Seminar Series | Dr. Wei Peng | 04-12-22 | Pathways to Deep Decarbonization: How Can We Model Realistic and Robust Strategies?](#)
- [RSVP Today: ESPP Annual Gathering | 4-28-22 | 4-6 PM](#)
- [Recording Available: ESPP Summer Research Fellowship Presentations](#)

### Graduate School Announcements

- [National Graduate Student Crisis Line is Open to Support Students](#)

### Course Announcements

- [Course Announcement for Fall \(Microbial Risk Modeling and Analysis\)](#)

### Scholarships, Awards, & Fellowships

- [HACU to accept applications for Southwest Airlines ¡Láncate! Travel Program | Deadline: 04-29-22](#)
- [MSU Funding Opportunity for Native American Students 04-22-22](#)
- [RCAH Language Fellows Call for Applications | Deadline 05-02-22](#)
- [Summer Intensive on Community-Engaged Scholarship | Due 4-18-22](#)
- [RCAH Fellowship Call for Applications 22-23 | Due 04-11-22](#)
- [UCAR NEXT GENERATION FELLOWSHIPS – 2022 | Due 05-16-22](#)
- [Instrumentation Discovery Travel Grants | Due 04-15-22](#)
- [Call for 2022-2023 Cultural Heritage Informatics Graduate Fellows | Due 05-09-22](#)
- [Internship and Fellowship Opportunities at Oak Ridge Institute for Science and Education \(ORISE\)](#)
- [Aitch Foundation Graduate Fellowship Opportunity in Cancer Research | 04-29-22](#)
- [DOE's Office of Science is Now Accepting Applications for Office of Science Graduate Student Research \(SCGSR\) Awards | Due 05-04-22 \(5 PM\)](#)
- [Women's and Gender Studies Dissertation Fellowships | Due 4-11-22](#)
- [Gloria Barron Wilderness Society Scholarship | Due 04-29-22](#)
- [Women's and Gender Studies Dissertation Fellowships | Due 04-11-22](#)
- [New EPA Research Opportunities](#)

### Workshops, Events, & Other Opportunities

- [GPSAW: Professional Head Shots and Resume Bootcamp | 04-08-22 | 12-3 PM](#)
- [GPSAW: Trivia Contest | 04-08-22 | 3-6 PM](#)
- [Water Quality Challenges and Opportunities from the Local to the Global Scale | 04-08-22 | 3 PM](#)

- [Virtual Lunch and Learn: Effectively Using Tech Tools to Enhance Student Learning | 04-13-22 | 12-1 PM](#)
- [Intellectual Property, Non-Disclosure Agreements and Export Controls \(3648-ILTV\) | 04-26-22 | 6-7:30 PM](#)
- [Community-Engaged Scholarship Write-Ins 05-06-22 | 9-12 PM](#)
- [2022 Rachel Carson Distinguished Lecture | Feeding the World Without Costing the Earth | 4-27-22 | 10:30 AM](#)
- [Global Change Seminar: The Great Urban Transition: Global Satellite Monitoring of Fire from Space: Past, Present and Future | Dr. David Roy | 05-04-22 | 1:00 PM](#)
- [Certification in College Teaching Institute 2022](#)
- [MSU Science Festival Volunteer Opportunities](#)
- [Climate Conversations: Sea Level Rise | 04-21-22 | 3:00-4:00 ET](#)
- [Campus Convening on Climate Change | SAVE THE DATE | 04-20-22](#)
- [APIDA Heritage Month](#)
- [Climate Intersections Conference | Duluth, MN | 07/12-14/22](#)
- [ASABE Global Conference - the Sustainable Energy for a Sustainable Future | Costa Rica | 10/24-26/22](#)
- [Handling Conflict using Compassionate Communication: The Outer Work | 04-13-22 | 6-7:30 PM](#)
- [Graduate School Write-In | 04-15-22 | 9 AM-12 PM](#)
- [Responsible Conduct of Research, Scholarship and Creative Activity \(RCRSCA\): Workshop Series](#)
- [2022 Black Students Lead Spring Virtual Conference | 04-09-22 | 10 AM – 5 PM](#)
- [Spring 2022 AUCA Virtual Career Events](#)
- [Complete Your Grad Student Tax Return \(and Understand It, Too!\): A Webinar Offered by COGS – Sign up today!](#)
- [RSAI Call for submissions: 2022 RSAI Best Dissertation in Regional Science | Due 07-31-22](#)
- [Broader Impacts Spring Workshops | Multiple Dates](#)
- [AGS International Graduate Student Conference 2022 Call for Papers | 04-29-22](#)
- [Great Lakes Water Infrastructure Conference | May 10-11, 2022](#)
- [Hanover Forest Science Seminar Series | Spring 2022](#)

### **Job Opportunities**

- [Center for Advancement of the Steady State Economy: Policy Specialist](#)
- [Two PhD-positions in agricultural ecology and economy, Uppsala, Sweden](#)
- [Environmental Reporting Summer Internship](#)

### **Faculty Funding Opportunities**

- [Grant Opportunity: Latin America Regional Program | Department of the Interior | Fish and Wildlife Service | Due 05-02-22](#)
- [DoS: Vietnam Action Against Plastic Pollution \(USAID-VIETNAM\)](#)
- [DoS: Clean Technology and Trade Partnership Initiative's Accelerating Clean Energy Transitions Technology Needs Assessment \(Office of Acquisitions Management\)](#)
- [DoS: Cooperation on Peaceful Uses of Nuclear Energy](#)

- [DoS: Enabling Forest Investment Development Facility-ForInvest \(Office of Acquisitions Management\)](#)
- [DoS: Indigenous People's Finance Access Facility \(IPFAF\), Bureau of Oceans - Int. Environmental - Scientific](#)
- [DoS: Countering Wildlife Trafficking in Central Africa \(Bureau of International Narcotics-Law Enforcement\)](#)

## ESPP News & Announcements

### ESPP Seminar Series | Dr. Wei Peng | 04-12-22 | Pathways to Deep Decarbonization: How Can We Model Realistic and Robust Strategies?

Join us for an engaging session of the ESPP Seminar Series as we welcome Dr. Wei Peng. Dr. Peng is an assistant professor at Penn State University. She will present "Pathways to Deep Decarbonization: How Can We Model Realistic and Robust Strategies?". For more details see that attached or visit <https://espp.msu.edu/events/2022-04-12.html>.

### RSVP Today: ESPP Annual Gathering | 4-28-22 | 4-6 PM

Save the date for an on-campus end-of-year gathering on Thursday, April 28, 2022, from 4-6:00 PM. More details to follow. In the meantime, please mark your calendars and RSVP at <https://forms.gle/Ye5TKyqFpSyLr95s7>.

### Recording Available: ESPP Summer Research Fellowship Presentations

Thank you to Apoorva Joshi and Corinn Rutkowski for two excellent presentations yesterday during our annual ESPP Summer Research Fellowship Presentation session. Apoorva presented "Explaining Conservation Behaviors to Reduce Wildlife Crime: A Cross-national and Theoretical Comparison" and Corinn presented "Mechanisms of Insecticide Removal on a Rowcrop Farm with Prairie Strips." If you were not able to attend, a recording of these interesting presentation is available at: [https://mediaspace.msu.edu/media/ESPP+Summer+Research+Fellowship+Presentations+%7C+04-07-22/1\\_71evi016](https://mediaspace.msu.edu/media/ESPP+Summer+Research+Fellowship+Presentations+%7C+04-07-22/1_71evi016).

## Graduate School Announcements

### National Graduate Student Crisis Line is Open to Support Students

For some students, the path to completing a graduate degree can sometimes be more difficult than expected and the pressure of personal and academic responsibilities too much to handle. Help is available. The National Graduate Student Crisis Line (**877-GRAD-HLP**) is staffed by trained counselors

who understand the pressures. Don't wait until a crisis arrives to call the National Grad Crisis Line. They are available 24/7 to listen, connect and assist you today! The National Graduate Student Crisis Line is part of [Grad Resources](#), a faith-based organization affiliated with the Christian Grads Fellowship.

## Course Announcements

### Course Announcement for Fall (Microbial Risk Modeling and Analysis)

From Dr. Mitchell: I am excited to offer BE 849 Microbial Risk Modeling and Analysis again in the Fall. The pandemic has highlighted the need and role of quantitative analysis and engineering for understanding pathogen risks, environmental controls and evaluating interventions mechanistically. It has also highlighted the importance of understanding the process of connecting science with the evaluation of risk management strategies and policy decisions to mitigate risks. This course is open to all graduate students with the required pre-requisites and an interest in integrating biology and engineering for understanding environmental exposures and health risks within the risk assessment framework. See the attached flyer for more information. Please feel free to contact me if you have any questions. See attached for details.

## Scholarships, Awards, & Fellowships

### HACU to accept applications for Southwest Airlines ¡Láncate! Travel Program | Deadline: 04-29-22

The Hispanic Association of Colleges and Universities and Southwest Airlines have opened applications for the 18th Annual ¡Láncate! / Take Off! Travel Program. Through this national initiative, HACU and Southwest Airlines will award roundtrip flights to undergraduate and graduate students across the country who travel at least 200 miles from home to pursue a higher education and meet the eligibility criteria, including the submission of a required essay. Recipients will be awarded eight one-way Southwest Airlines flight e-passes for the student to use when traveling to/from the college/university. The complimentary e-passes can be used for travel to any of the Southwest Airlines destinations in the continental United States as listed on <https://www.southwest.com>. [Learn more and apply here.](#)

### MSU Funding Opportunity for Native American Students 04-22-22

The MSU Native American Institute is accepting applications for the 2022 Emma Shore-Thornton Endowment Fund. Award amounts typically range from \$250 to \$2000 contingent on the availability of funds and the number of applicants. Applications are due April 22 by 5:00 p.m. [Learn more and apply here.](#)

### RCAH Language Fellows Call for Applications | Deadline 05-02-22

The Residential College in the Arts and Humanities (RCAH), in collaboration with the Graduate School at Michigan State University (MSU), announces a Cultures and Languages across the Curriculum (CLAC) fellowship program in undergraduate teaching and learning for MSU graduate students. Eligible graduate students must be enrolled full-time in any MSU college, be in good academic standing, and be making progress toward a terminal degree in their field. Fellows have (near) native fluency in any

language other than English. Each fellow receives a stipend of \$4000/semester to help support CLAC research project expenses, professional development workshops, and/or travel to professional conferences. [Learn more and apply here.](#)

### **Summer Intensive on Community-Engaged Scholarship | Due 4-18-22**

June 6-10, 2022 | Kellogg Center, East Lansing, Michigan  
\$550 for MSU participants; \$650 for non-MSU participants

Attention: Early career, tenure-track faculty and advanced graduate students. Michigan State University's Office for University Outreach and Engagement is pleased to host the fifth annual Summer Intensive on Community-Engaged Scholarship. We welcome community-engaged scholars and practitioners with interests in community-engaged research and community-engaged teaching and learning, including service-learning, informal learning, and community-engaged research in courses. Through interactive workshops, field trips, lightning talks, case studies, panel discussions, and individual consultations, Summer Intensive participants explore big picture issues related to community-engagement in a learning community setting and develop strategies and plans for their own successful engagement activities. For more details, visit <https://engage.msu.edu/learn/learning/summer-intensive-on-community-engaged-scholarship>.

### **RCAH Fellowship Call for Applications 22-23 | Due 04-11-22**

A graduate fellowship program for doctoral students with interests in teaching, learning, engagement, and assessment in higher education. The primary goals of the RCAH Graduate Fellowship Program are to provide professional and career development opportunities outside of regular classroom instruction for a diverse group of graduate students as mentors, tutors, and group leaders in various aspects of the RCAH and to contribute directly to the scholarship of teaching, especially in the areas of the humanities, world language proficiency, the visual and performing arts, and civic engagement. [Learn more and apply.](#)

### **UCAR NEXT GENERATION FELLOWSHIPS – 2022 | Due 05-16-22**

The [Next Generation Fellowships](#) offer graduate students the opportunity to learn alongside leaders in their fields. Each two-year fellowship provides financial support for graduate school and two summer visits. The program offers three distinctive fellowship tracks: Earth System Science, Diversity, Equity & Inclusion and Public Policy. For more information, visit <https://www.ucar.edu/opportunities/fellowships/ucar-next-generation-fellowships>.

### **Instrumentation Discovery Travel Grants | Due 04-15-22**

CUAHSI's Instrumentation Discovery Travel Grant (IDTG) program enables scientists to learn the details of hydrologic instrument installation, operation, maintenance, and data processing by visiting experts or scheduling reverse site visits. Applicants from traditionally under-served institutions, primarily undergraduate institutions, students at all levels, and early career faculty are encouraged to apply for an IDTG. Applications will be accepted through April 15, 2022. Learn more [here](#).

### **Call for 2022-2023 Cultural Heritage Informatics Graduate Fellows | Due 05-09-22**

Applications for the 2022-2023 Cultural Heritage Informatics Grad Fellowship program are now open. The program is open to any MSU grad students (MA or PhD) interested in the application of digital methods and computational approaches to cultural heritage materials, collections, data, questions, and challenges. For information on the Cultural Heritage Informatics Grad Fellowship program, please review attached call for applicants or visit <http://chi.anthropology.msu.edu/fellowships>. For further information, please contact Ethan Watrall ([watrall@msu.edu](mailto:watrall@msu.edu))

### **Internship and Fellowship Opportunities at Oak Ridge Institute for Science and Education (ORISE)**

The Oak Ridge Institute for Science and Education (ORISE) is accepting applications for internship and fellowship opportunities at U.S. Department of Defense research facilities nationwide. These are mostly postdoctoral, but there are opportunities for holders of Bachelors, Masters, and Doctoral degrees. [Learn more here](#).

### **Aitch Foundation Graduate Fellowship Opportunity in Cancer Research | 04-29-22**

The Aitch Foundation ([www.aitchfoundation.com](http://www.aitchfoundation.com)) and Michigan State University's Office of Research and Innovation invite applications for graduate assistantships in cancer research. This year we are happy to announce there will be a total of three awards. The total amount of support for each fellowship will be \$30,000 for a 12-month period. Funding announcements will be made in July 2022. The Aitch Foundation funds may be used to provide a graduate assistantship, but additional support for fringe benefits (tuition, fees, insurance) will not be provided, and it is expected that supplemental support will come from the research mentor. Eligible applicants must be current graduate students at Michigan State University who are conducting research in one of the following programmatic areas: *early cancer detection and diagnostics; genetic and cellular changes contributing to tumor development; or the identification of new cancer targets or therapeutic agents*. The expectation is that the student will devote the majority of his/her time to research, and candidates must therefore have successfully completed their preliminary exam before the start date of the assistantship. Applications should include a CV, a letter of support from the mentor/thesis advisor, and a two-page research narrative, by Friday, April 29<sup>th</sup> at 5 pm to [proposal@msu.edu](mailto:proposal@msu.edu). The research narrative should focus on the importance of the research in meeting one or more of the stated goals of the program, and the plan for work to be undertaken during the year of funding. A faculty advisory committee will select the top applicants, based upon research accomplishments, potential for future contributions to cancer research and programmatic fit. Final selection of the Aitch Fellow will be made by the Board of the Aitch Foundation. The successful applicant will be asked to make a presentation on their research to the Aitch Foundation Board at the end of their Fellowship year. For questions contact Charles Hasemann ([haseman1@msu.edu](mailto:haseman1@msu.edu), 884-2367).

### **DOE's Office of Science is Now Accepting Applications for Office of Science Graduate Student Research (SCGSR) Awards | Due 05-04-22 (5 PM)**

The Department of Energy's (DOE) Office of Science is pleased to announce that the Office of Science Graduate Student Research (SCGSR) program is now accepting applications for the 2022 Solicitation 1 cycle. The SCGSR program supports awards to outstanding U.S. graduate students to conduct part of their graduate thesis research at a DOE national laboratory or host site in collaboration with a DOE laboratory scientist — with the goal of preparing graduate students for scientific and technical careers critically important to the DOE Office of Science mission. The research opportunity is expected to

advance the graduate students' overall graduate theses while providing access to the expertise, resources, and capabilities available at the host DOE laboratories. SCGSR is open to current Ph.D. students in qualified graduate programs at accredited U.S. academic institutions, who are conducting their graduate thesis research in targeted areas of importance to the DOE Office of Science.

### **Women's and Gender Studies Dissertation Fellowships | Due 4-11-22**

The Center for Gender in Global Context is pleased to announce a call for applications for our 2022-2023 Women's and Gender Studies (WGS) dissertation fellowships. Six fellowships of up to \$10,000 will be awarded to PhD students pursuing dissertation research projects that focus on topics substantially involving women, gender, or sexuality - [examples of recently funded projects are listed here](#). Projects in both the research stage as well as writing/completion stages will be funded. Full eligibility details and application requirements can be found here: <https://gencen.isp.msu.edu/graduate-students/funding/>.

### **Gloria Barron Wilderness Society Scholarship | Due 04-29-22**

[The Wilderness Society](#), a leading conservation organization based in Washington, D.C., awards \$25,000 each to two currently enrolled graduate students to support their research and preparation of a paper on an aspect of wilderness. T. A. Barron created the Gloria Barron Wilderness Society Scholarship in honor of his mother, Gloria Barron, a dedicated educator and tireless advocate for wilderness protection. For more information on the scholarship and how to apply, click [here](#). The Wilderness Society is currently accepting applications.

### **Women's and Gender Studies Dissertation Fellowships | Due 04-11-22**

The Center for Gender in Global Context is pleased to announce a call for applications for our 2022-2023 Women's and Gender Studies (WGS) dissertation fellowships. Six fellowships of up to \$10,000 will be awarded to PhD students pursuing dissertation research projects that focus on topics substantially involving women, gender, or sexuality - [examples of recently funded projects are listed here](#). Projects in both the research stage as well as writing/completion stages will be funded. Full eligibility details and application requirements can be found here: <https://gencen.isp.msu.edu/graduate-students/funding/>.

### **New EPA Research Opportunities**

The Oak Ridge Institute for Science and Education (ORISE) Internship/Research Participation Programs at the U.S. Environmental Protection Agency (EPA) are educational and training programs designed to provide college students, recent graduates, and university faculty opportunities to participate in project-specific EPA research, current environmental research, and developmental activities. Visit <https://orise.orau.gov/epa/current-research-opportunities.html>.

## **Workshops, Events, & Other Opportunities**

### **GPSAW: Professional Head Shots and Resume Bootcamp | 04-08-22 | 12-3 PM**

As part of [Graduate and Professional Student Appreciation Week](#) (April 4 - 8, 2022), the [Graduate Career Development Center](#) and the [Career Services Network](#) have set up a special event for graduate and professional students. Visit the Student Services Building to take a professional headshot, get feedback

on your resume or cover letter, or have a chat about career goals, job search strategies, and anything else career-related that's on your mind. No appointment needed! [Learn more](#).

**GPSAW: Trivia Contest | 04-08-22 | 3-6 PM**

To round out Graduate and Professional Student Appreciation Week, join us in Chittenden Hall for a fun game of trivia. Trivia topics will range from history and geography all the way to sports, music, and television. Prizes will be awarded to the contest winners. [Learn more](#).

**Water Quality Challenges and Opportunities from the Local to the Global Scale | 04-08-22 | 3 PM**

Department of Civil & Environmental Engineering and Center for Intelligent Water Resources Engineering Seminar Series presents "Water Quality Challenges and Opportunities from the Local to the Global Scale" by Prof. Nandita Basu. See attached for details.

**Virtual Lunch and Learn: Effectively Using Tech Tools to Enhance Student Learning | 04-13-22 | 12-1 PM**

In this virtual learn and learn session, Tianyi Kou-Herrema will share some of the technology tools and strategies to use them effectively for student success. Presenter: Tianyi (Titi) Kou-Herrema is a doctoral candidate in the German Program in the Department of Linguistics, Languages, and Cultures at MSU. She is the winner of University Excellence-in-Teaching Award 2022. Please [read more about Titi here](#). [Learn more and register here](#).

**Intellectual Property, Non-Disclosure Agreements and Export Controls (3648-ILTV) | 04-26-22 | 6-7:30 PM**

This workshop will review the different types of intellectual property created in the academic setting namely copyrights, patents, trademarks, and trade secrets. The workshop will also cover export control regulations. Export controls are U.S. laws and regulations that regulate and restrict the release of critical technologies, information, and services to foreign nationals, within and outside of the United States, and foreign countries for reasons of foreign policy and national security. For registration, see: [https://abilitylms.msu.edu/MSU/LearnerWeb\\_PTM.php?ActionID=Enroll&EventID=6737](https://abilitylms.msu.edu/MSU/LearnerWeb_PTM.php?ActionID=Enroll&EventID=6737).

**Community-Engaged Scholarship Write-Ins 05-06-22 | 9-12 PM**

Is working from home making it hard to find writing time? If so, please join us on the first Friday of each month for three hours of dedicated time to advance your scholarship. Past participants have written journal articles, grant proposals, book chapters, theses or dissertations, curricula, pieces for public audiences, and community engagement portfolios. Participants should plan to write for the full three hours. Write-Ins are free, but registration is required. [Learn more and register here](#).

**2022 Rachel Carson Distinguished Lecture | Feeding the World Without Costing the Earth | 4-27-22 | 10:30 AM**

Andrew Balmford, Professor of Conservation Science, University of Cambridge; Fellow, The Royal Society. Dr. Balmford focuses on how to reconcile biodiversity conservation with meeting human food needs and other land-demanding activities; the costs and benefits of retaining intact ecosystems; and identifying what works in conservation. He has published numerous high-impact articles and is the author of Wild Hope: On the Front Lines of Conservation Success. See attached for more details.



**Global Change Seminar: The Great Urban Transition: Global Satellite Monitoring of Fire from Space: Past, Present and Future | Dr. David Roy | 05-04-22 | 1:00 PM**

Join the MSU Center for Global Change and Earth Observations on Wednesday, May 4, 2022, at 1:00 PM for their next session of the CGCEO Research Seminar Series as they welcome Dr. David Roy. Professor Roy has undertaken fire monitoring research as a member of the NASA MODIS, NASA VIRS, and USGS Landsat science teams for >20 years and is the co-chair of the international GOFC/GOLD Fire Implementation Team. His presentation will overview: the need for space-based fire monitoring to document past fire activity and contextualize contemporary activity due to anthropogenic and climate change, space agency fire monitoring from coarse resolution geostationary and polar-orbiting satellite systems, current progress using medium resolution polar-orbiting systems, validation fieldwork in Africa and Australia, and the current revolution in the use of commercial high-resolution satellite data with machine learning for space-based fire monitoring. Learn more and register in advance at <http://globalchange.msu.edu/events/2022-05-04.html>.

**Certification in College Teaching Institute 2022**

The Certification of College Teaching Institute is being held in May. We will have a Zoom Information Session on May 9 from 5 to 6:30 p.m. and in-person workshops on May 12 and 13 in the STEM Teaching Facility. This workshop series will help doctoral students, MMs, MFAs, and postdocs to fulfill workshop requirements towards the Certification of College Teaching program. Those interested in attending can [learn more and register here](#). Please note, there is a \$20 registration fee that will help offset some of the costs for materials and lunch. For any questions or concerns, please don't hesitate to reach out to me at [stbaier@msu.edu](mailto:stbaier@msu.edu). See attached for more details.

**MSU Science Festival Volunteer Opportunities**

Help bring the 10th annual MSU Science Festival to life! We are currently accepting volunteer applications for the Science Festival Street Team, as well as this year's Science in the Gardens event, which takes place on both Saturday, April 9th and Sunday, April 10th. Visit <https://sciencefestival.msu.edu/get-involved/volunteer>

**Climate Conversations: Sea Level Rise | 04-21-22 | 3:00-4:00 ET**

Join us for a conversation about how to respond to the rising seas already threatening people, infrastructure and property on US coastlines. People, infrastructure, and property along U.S. coastlines are already threatened by rising seas, which are [projected](#) to rise by an additional foot on average in the next 30 years. Join us for a conversation about how coastal managers and communities are experiencing and responding to sea level rise now, and how they are planning for the future. The conversation will be webcast on the [Climate Conversations: Sea Level Rise webpage](#) on Thursday, April 21, 2022 from 3-4pm ET. Closed captioning will be provided. The conversation will include questions from the audience and will be recorded and available to view on the page after the event. [Climate Conversations: Pathways to Action](#) is a monthly webinar series from the National Academies of Sciences, Engineering, and Medicine that aims to convene high-level, cross-cutting, nonpartisan conversations about issues relevant to national policy action on climate change.

**Campus Convening on Climate Change | SAVE THE DATE | 04-20-22**

The MSU community is invited to participate in a campus convening on the impacts of climate change on our world, our food, and our people. Michigan State is uniquely positioned to approach this topic from several disciplinary angles, and all faculty, staff and students are welcome to attend and provide input. The MSU Strategic Plan 2030 outlines several research thrusts. This is the first meeting in a series around climate change and more series will be scheduled on additional research priorities. The full-day event will be highly interactive as attendees will participate in facilitated breakout sessions with a goal of identifying short- and long-term projects and developing a robust plan for moving forward. Learn more on the [event page](#).

### **APIDA Heritage Month**

The month of May is Asian American and Pacific Islander Heritage Month in the United States—a time to celebrate the diverse identities, histories, and experiences of all Asian Americans and Pacific Islanders. Join Michigan State University in learning about and celebrating the Asian Pacific Islander Desi American community during APIDA Heritage Month 2022! This year the celebration will span between the months of March and April and the events have been intentionally planned and coordinated in collaboration with offices, departments, student organizations, and alumni with an outcome of celebrating the unique culture, traditions, and rich history of the Asian Pacific Islander Desi American community. Find an opportunity on the [MSU APIDA calendar of events](#).

### **Climate Intersections Conference | Duluth, MN | 07/12-14/22**

This conference has a theme of adapting local communities to extreme weather and creating resilient agricultural systems in a changing climate. The conference covers topics that provide solutions that combat inequity caused by climate change and ensure the well-being of people. In addition, this conference provides an opportunity to connect with water professionals in the area of water, climate, and natural resources within the North Central Region. [Climate Intersections Conference - North Central Region Water Network \(northcentralwater.org\)](#)

### **ASABE Global Conference - the Sustainable Energy for a Sustainable Future | Costa Rica | 10/24-26/22**

A fast-growing world population, estimated to reach 9.1 billion in 2050, coupled with megatrends such as rapid urbanization and diet transformation will require nearly doubling of food production worldwide. While increasing food production is critical, issues such as water and energy security are equally important to ensure sustainability of the global food system while addressing climate change. The goal of the conference is to bring together agricultural and biological engineers and peers from academia, government, and industry including growers/farmers from across the world with local stakeholders to enable interdisciplinary dialogs among international scientists, business owners, and government agents to explore renewable energy technologies and innovations. It is expected that partnerships will be developed among individuals and organizations to address issues and barriers that are most relevant to local/regional energy security. The conference scope includes innovative renewable energy production technologies; agriculture and circular bioeconomy for sustainable energy production; distributed renewable energy systems and global climate change; food-energy-water nexus; social, environmental and economic perspectives of energy security. Please visit the conference website at: [www.energy.asabe.org](http://www.energy.asabe.org) to submit your abstracts. The deadline for abstract submission is April 15, 2022. Conference is being co-chaired by Dr. Ajit Srivastava and Wei Liao from MSU.

### **Handling Conflict using Compassionate Communication: The Outer Work | 04-13-22 | 6-7:30 PM**

Graduate Student Life & Wellness, in collaboration with the MSU University Ombudsperson, is excited to bring you the Compassionate Communication series that will enhance your understanding and ability to handle conflict in an effective and authentic way. Join us virtually for any or all of this three-part series. The focus of this third session shifts from the inner work to the outer work of handling conflict. Participants will discuss how to express themselves authentically during conflict. They will also examine the strength of utilizing empathic approaches. [Register here.](#)

### **Graduate School Write-In | 04-15-22 | 9 AM-12 PM**

Graduate School Write-Ins are co-sponsored by the Graduate School and The Writing Center @ MSU. The write-ins are hosted and facilitated to provide writers with an opportunity to write in a shared writing space where other writers are present, and a writing center consultant/staff member is present to provide consultations for writers who would like to have a consultation appointment during the session. [Learn more and register here.](#)

### **Responsible Conduct of Research, Scholarship and Creative Activity (RCRSCA): Workshop Series**

This workshop series is intended to support the efforts of departments and graduate programs in fostering responsible research/scholarly practices. The expectation is that student/trainee research/scholarship will be of higher quality, and that students/trainees will be better able to avoid and respond to situations involving irresponsible research/scholarly practices and behaviors.

### **2022 Black Students Lead Spring Virtual Conference | 04-09-22 | 10 AM – 5 PM**

The Black Students Lead Leadership Conference is the largest national gathering of Black Student Leaders and campus-based advisors to address the most critical topics of diversity and social justice challenging our Black student's community within colleges and universities. [Learn more and register here.](#)

### **Spring 2022 AUCA Virtual Career Events**

AUCA will be hosting a series of Spring career events from mid-March to mid-April for Chinese students who are studying in the U.S. All events will be virtual. Participating employers include L'Oreal China, Tencent, Huatai Securities, Sinolink Securities, BlackRock, P&G, Mars, Unilever, JD.com, ByteDance, Deloitte, PwC, Philips, AstraZeneca, etc. You can find specific event schedule below and in the attached flyer. Learn more and register: <http://aucaevents.mikecrm.com/cDdwTCP>.

### **Complete Your Grad Student Tax Return (and Understand It, Too!): A Webinar Offered by COGS – Sign up today!**

Are you intimidated by the prospect of preparing your grad student tax return? Are you confused by the tax forms you received from your institution or funding agency – or the forms you didn't? This workshop breaks down how to calculate your taxable income from your salary, stipend, fellowship, grant, and/or scholarships; minimize your tax liability using education tax benefits; and report your income, qualified education expenses, and estimated tax paid on your tax return. It also touches on the special tax situations that may apply to students under age 24. This workshop, presented by Dr. Emily Roberts, personal finance educator specializing in early-career PhDs, is appropriate for US citizens, permanent

residents, and residents for tax purposes, and comprises pre-recorded videos, worksheets, and live Q&A calls. COGS is offering this webinar FREE for the first 40 MSU graduate & professional students to register. \*After the first 40, registrants will be put on a waitlist as additional spots may be added to accommodate. See the attached for more details.

### **RSAI Call for submissions: 2022 RSAI Best Dissertation in Regional Science | Due 07-31-22**

The Regional Science Association International (RSAI) invites submissions for the annual competition for the Best Doctoral Dissertation in Regional Science. Regional science is an interdisciplinary field concerned with theory, method, and application of regional, urban and rural, geographic and spatial investigations and analyses. The winner will be decided by the Selection Committee and will receive a cash award of 750 Euros (~\$850). Award announcements will be made at the North American Meetings of the RSAI, where participants in the competition are strongly encouraged to be present. The Selection Committee reserves the right to not make an award. Decisions made by the Selection Committee are final. <http://www.regionalscience.org/index.php/awards/rsai-dissertation-award.html>

### **Broader Impacts Spring Workshops | Multiple Dates**

University Outreach and Engagement and the Office of Research and Innovation are excited to announce [a series of workshops](#) this spring semester designed to help faculty, students, and staff understand and effectively respond to the National Science Foundation's broader impacts criterion. In this panel discussion, Dr. Angela Wilson, John A. Hannah Distinguished Professor of Chemistry and former director of the Chemistry Division of the National Science Foundation, and faculty members who have won CAREER awards offer their insights into how to write successful CAREER proposals that integrate their research and education plans.

### **AGS International Graduate Student Conference 2022 Call for Papers | 04-29-22**

The Post-Covid World Dis/Order - Opportunities and/or Challenges?

The American Graduate School in Paris is hosting a conference for international graduate titled "The Post-Covid World Dis/Order - Opportunities and/or Challenges?" on April 29, 2022. The goal of the conference is to identify and discuss the pandemic's systemic challenges within international relations, as well as formulate tools, methods and perspectives with which to carve a new path forward. Attached is the official Call For Papers (including updated submission dates/deadlines) highlighting the details of the 2022 conference. The AGS has extended the deadline for Abstract submissions, which are now due by 7 p.m. on Monday, February 21, 2022. While the call for papers provides suggested themes, should your research provide an alternative perspective that might be suitable for the topic of discussion, your submissions are welcome! For questions, you may contact the AGS at [conference@ags.edu](mailto:conference@ags.edu).

### **Great Lakes Water Infrastructure Conference | May 10-11, 2022**

Mark your calendars now to join the Michigan Department of Environment, Great Lakes, and Energy on May 10 and 11, 2022, for a virtual conference featuring such topics as funding and finance mechanisms, environmental health, water infrastructure planning and reinvestment, innovative water quality solutions, green infrastructure techniques, and communications practices. This conference is intended for local drinking water and wastewater administrators and professional staff, planning officials, consultants, federal, state, and local governments, policy makers, and anyone in the Great Lakes region

interested in moving our aging infrastructure into the future. Learn more at <https://egle.idloom.events/great-lakes-water-infrastructure-conference>.

### **Hanover Forest Science Seminar Series | Spring 2022**

We are excited to announce we will be continuing our [Hanover Forest Science Seminar Series](#) Spring semester 2022 and have an outstanding lineup of interesting speakers for you. All seminars this semester will be broadcast over Zoom. Please see this year's in the attached flyer or the link above – we hope you can all attend!

## **Job Opportunities**

### **Center for Advancement of the Steady State Economy: Policy Specialist**

The Policy Specialist monitors, reviews, analyzes, interprets, proposes, and drafts public policies conducive to a steady state economy. The primary, long-running project will be the Full and Sustainable Employment Act (major amendments to the Full Employment and Balanced Growth Act) and associated bills. The Policy Specialist may also work frequently at state or local levels, and occasionally on international policy issues. For more details, visit: <https://steadystate.org/policy-specialist-position-description/>.

### **Two PhD-positions in agricultural ecology and economy, Uppsala, Sweden**

The Department of Ecology and the Department of Economy at the Swedish University of Agricultural Sciences announce two PhD-candidate positions: in agricultural ecology and economy placed in Uppsala, Sweden. The students will together investigate how ecological and economic efficiencies change across farms implementing agroecological practices such as diverse crop rotations, cover crops, reduced tillage and reduced nitrogen and pesticide use. The project provides the opportunity to work with actors in the entire food value chain from farmer to consumer, including process industry and retail in the effort to extract added value from sustainable farming and assess capacity for upscaling. For more information contact Prof Riccardo Bommarco <[Riccardo.Bommarco@slu.se](mailto:Riccardo.Bommarco@slu.se)> or Helena Hansson [Helena.Hansson@slu.se](mailto:Helena.Hansson@slu.se)

Ecology deadline 6 May

<https://www.slu.se/en/about-slu/work-at-slu/jobs-vacancies/?rmpage=job&rmjob=6446&rmlang=UK>

Economy deadline 22 April

<https://www.slu.se/en/about-slu/work-at-slu/jobs-vacancies/?rmpage=job&rmjob=6351&rmlang=UK>

### **Environmental Reporting Summer Internship**

WKAR is seeking a student reporter to produce environmental stories and reports for WKAR-FM and MSU's Knight Center for Environmental Journalism. Based on interest and experience, environmental reporting interns serve in roles including reporter, audio producer, photojournalist, and more. Ideal candidates are pursuing studies in journalism and have previous reporting experience. This is a paid

internship position for currently enrolled Michigan State University undergraduate or graduate students. Contact: Karel Vega, WKAR News Managing Editor [kvega@wkar.org](mailto:kvega@wkar.org). This internship has been posted and approved on Handshake and can be found by searching job #6199082 or at: <https://app.joinhandshake.com/emp/jobs/6199082/details>

## Faculty Funding Opportunities

**Grant Opportunity: Latin America Regional Program | Department of the Interior | Fish and Wildlife Service | Due 05-02-22**

For more details, see <https://www.grants.gov/web/grants/view-opportunity.html?oppld=338830>

### [DoS: Vietnam Action Against Plastic Pollution \(USAID-VIETNAM\)](#)

The United States Agency for International Development (USAID) in Vietnam (USAID/Vietnam) is seeking applications for a Cooperative Agreement from qualified entities to implement the *Vietnam Action Against Plastic Pollution Activity*.

Vietnam is one of the top plastic polluters of the world's ocean, with estimated leakage of between 280,000 and 730,000 metric tons of plastic annually. Surveys conducted by the Center for Supporting Green Development (GreenHub) in 38 coastal and river sites in 10 provinces and cities in Vietnam in 2020-2021 show that plastic waste is the most abundant type of solid waste collected (94% in number and 71% by weight). This urgency is even more challenging due to the surge of Personal Protective Equipment waste such as masks, gloves, clothes, and healthcare waste, together with home and office delivery packaging during the COVID-19 lockdowns, resulting in more plastics packaging discarded.

The "Vietnam Action Against Plastic Pollution" activity aims to reduce ocean plastic pollution at its source in Vietnam through strategic approaches such as convening stakeholders' power, promoting the creation and implementation of data-driven policies, enhancing knowledge and sharing learning, promoting appropriately scaled technology and solutions, and providing technical expertise and building capacity of local governments to manage waste at its source and prevent plastic pollution in our oceans.

*These goals will be addressed through the following:*

1. Fostering multi-stakeholder actions for Extended Producer Responsibility (EPR);
2. Single use plastic (SUP) reduction measures are demonstrated; and
3. Sub-national level Integrated SWM models developed and implemented.

Award Size: Up to \$21.4M

Deadline: May 5, 2022

[DoS: Clean Technology and Trade Partnership Initiative's Accelerating Clean Energy Transitions Technology Needs Assessment \(Office of Acquisitions Management\)](#)

The Bureau of Oceans and International Environmental and Scientific Affairs (OES) at the Department of State announces a Notice of Funding Opportunity (NOFO) for an award entitled, “Accelerating Clean Energy Transitions Technology Needs Assessment (Assessment)” under the Clean Technology and Trade Partnership Initiative. The purpose of this project is to accelerate affordable clean energy transitions in select developing and emerging countries in support of national decarbonization needs in these critical markets.

This comprehensive market and needs assessment will identify key areas of alignment between emerging economy needs and U.S. clean technologies to support implementation plans in these countries. The Assessment will help the U.S. government, American clean technology industries, and developing countries better understand the barriers and opportunities that exist for the accelerated deployment of promising clean technologies and inform near-term actions to unlock decarbonization and socioeconomic benefits.

For the purposes of this project, clean technologies (“clean tech”) should be considered as any technologies that directly reduce or eliminate greenhouse gas emissions compared to existing carbon- and energy-intensive processes, as well as technologies and services that support climate adaptation and resilience.

*The Assessment should deliver the following results:*

- Conduct analyses of at least four key technologies’ decarbonization potential on a five-, ten-, and fifteen-year time horizon.
- Modeling results for future needs and the potential impacts of accelerated clean technology deployment linked to identified opportunities in at least ten developing countries on a five-, ten-, and fifteen-year time horizon.
- Completion of a synthesis report that aggregates the findings of the individual country assessments to identify overarching trends and opportunities for U.S. commercial and technical support.
- Assessment and classification of priority technology clusters by country and across countries to determine alignment with current and future U.S. technology capabilities, along with an assessment of measures that the United States can take to accelerate decarbonization through additional commercial and technical support.

Award Size: \$684,000

Deadline: May 20, 2022

### **[DoS: Cooperation on Peaceful Uses of Nuclear Energy](#)**

The Department of State’s Bureau of International Security and Nonproliferation, Office of Multilateral Nuclear and Security Affairs (ISN/MNSA) seeks proposals to advance U.S. foreign policy and national security priorities by identifying and supporting initiatives for sustained international engagement to promote enhanced and more efficient cooperation and assistance in the application of peaceful uses of nuclear energy, science, and technology (“peaceful uses”) and to drive new resources to projects and activities in developing countries of greatest need.

The program aims to continue a robust international dialogue on the peaceful uses of nuclear energy, science and technology focused on advancing international awareness of the important contribution of peaceful uses, promoting greater acceptance of peaceful uses benefits, and identifying new opportunities for cooperation, especially if they are not well-suited for finding existing channels for assistance.

*U.S. international security will be strengthened by:*

1. demonstrating the peaceful uses benefits of the NPT through expanded access by developing countries to assistance in the application of nuclear energy for peaceful purposes;
2. integrating the views of technical experts and practitioners, including the research, development, and regulatory communities of practice (with a focus on including representatives from developing countries) in the exchange of information on peaceful uses during meetings of the NPT States Parties; and
3. broadening acceptance of peaceful uses as a solution to development challenges and needs coupled with growing understanding of the ties between peaceful uses and other international commitments in nuclear nonproliferation, safety and security.

Award Size: \$3,989,369

Deadline: May 30, 2022

#### **[DoS: Enabling Forest Investment Development Facility-ForInvest \(Office of Acquisitions Management\)](#)**

The ForInvest project will work in developing countries in the three key geographies identified in the Plan to Conserve Global Forests: Critical Carbon Sinks: the Amazon basin, Congo basin, and South East Asia. The project will support the Plan's objective by facilitating and enabling investment, particularly from private sector financial institutions, in natural climate solutions and other land use activities that increase carbon storage or prevent greenhouse gas (GHG) emissions from landscapes.

Specifically, the project will unlock investments by developing natural climate solutions-focused investment pipelines, and linking investors to those pipelines.

The goal of the ForInvest is to facilitate investment in natural climate solutions in developing countries, especially in high-deforestation areas, by developing investment pipelines and connecting those opportunities with potential investors. These investments should promote natural climate solutions and other land use activities that increase carbon storage or prevent greenhouse gas (GHG) emissions from landscapes.

*The Project's objectives include:*

- Develop investment pipelines in developing countries consistent with countries' Nationally Determined Contributions and climate and development objectives.



- Connect the pipeline of investable projects to investors via coordination and engagement with initiatives like the Forest Investor Club, Innovative Finance for the Amazon, Cerrado and Chaco (IFACC), and Mobilizing Finance for Forests.
- Collaborate with institutions including development banks, government ministries, financial institutions, and other initiatives to identify investment partners and relevant resources (i.e., technical assistance, catalytic capital, etc.).
- Enhance the capacity of actors at all stages of project development and investment, including project developers, asset owners, investors, and other institutions, to engage in private investment for natural climate solutions.
- Exploring de-risking mechanisms and innovative financial mechanisms to unlock investment in collaboration with other public and private institutions.

Award Size: \$5,135,000

Deadline: May 30, 2022

**DoS: Indigenous People's Finance Access Facility (IPFAF), Bureau of Oceans - Int. Environmental - Scientific**

The goal of Indigenous People's Finance Access Facility (IPFAF) is to improve Indigenous People's access to finance for forest restoration, conservation, and stewardship by addressing the existing barriers to Indigenous Peoples groups' engagement in global, regional, and national-level initiatives to finance combatting deforestation and promoting natural climate solutions. The project will support IPs in the key geographies identified in the *Plan to Conserve Global Forests: Critical Carbon Sinks*: the Amazon basin, Congo basin, and South East Asia.

*The objectives of IPFAF are to:*

- Provide targeted technical support, policy guidance, and legal services to enable access to specific finance opportunities;
- Advance capacity building activities to improve Indigenous People groups' long-term ability to access international grants, results-based finance opportunities, as well as other finance modalities for forest conservation, restoration, and improved management activities;
- Equip Indigenous People groups with resources and information to raise awareness of and take steps to address common legal and policy barriers for IP groups' access to international finance for forest conservation and restoration efforts; and
- Facilitate IP groups' access to specific finance opportunities for forest restoration, conservation, and stewardship.

Award Size: \$1,956,000

Deadline: May 30, 2022

## [DoS: Countering Wildlife Trafficking in Central Africa \(Bureau of International Narcotics-Law Enforcement\)](#)

The Bureau of International Narcotics and Law Enforcement Affairs of the U.S. Department of State announces an open competition for organizations to submit applications to carry out a project to counter wildlife trafficking in Central Africa.

Central Africa is a hot spot for poaching and trafficking of illegal wildlife and products such as ivory and pangolin scales. In order to help dismantle the criminal organizations trafficking in these illegal products and reduce wildlife trafficking in the region, INL seeks to support counter-wildlife trafficking projects in Central Africa including Cameroon, Central African Republic, Congo (Brazzaville), Congo (Kinshasa), and Gabon.

### *Project Goal:*

Strengthen criminal justice institutions in Central Africa to undertake successful enforcement, investigative, and prosecutorial functions for wildlife crimes, as well as credible measures that prevent wildlife crime.

### *Project Objectives:*

1. Increase the capacity of law enforcement to detect, interdict, seize, and transfer to investigatory agencies, illegal wildlife products, through raising awareness, training, and equipment.
2. Improve national and regional wildlife law enforcement capacity to prevent, detect, and investigate wildlife crime through specialized training and equipment.
3. Improve national and regional capabilities to prosecute and adjudicate cases against wildlife crimes and related offenses to result in appropriate sentencing outcomes.
4. Strengthen anti-corruption efforts within relevant agencies to enhance government response, improve government accountability, and strengthen transparency as it relates to wildlife crime.

Award Size: \$1.25M up to \$1.5M

Deadline: June 1, 2022



# PATHWAYS TO DEEP DECARBONIZATION: HOW CAN WE MODEL REALISTIC AND ROBUST STRATEGIES?

## ABSTRACT

How to achieve deep decarbonization in the next few decades? Integrated assessment modeling methods (IAMs) have been used to assess future decarbonization pathways and their implications on cost and the environment. While most IAMs still focus on idealized policies, real-world decisions need to balance competing objectives, manage future uncertainties, and ensure political feasibility. In this talk, I will discuss our recent efforts to advance IAMs by: a) adding decision science methods to identify robust strategies under future uncertainties, and b) adding social science insights to identify realistic strategies under political constraints. I will demonstrate a range of examples, from the cost of state-driven climate policy in the US to the unintended health effects from a global carbon price.



**DR. WEI PENG**  
ASSISTANT PROFESSOR  
PENN STATE UNIVERSITY

Wei Peng is an assistant professor of international affairs and civil and environmental engineering at Penn State. She uses computational models to quantify difficult tradeoffs of climate policies across social, political, and environmental aspects. Prior to her arrival at Penn State, Peng was a postdoc fellow at the Harvard Kennedy School. She earned her Ph.D. in science, technology, and environmental policy from Princeton University and her B.S. in environmental science from Peking University. Her research has been published in *Nature*, *Nature Climate Change*, *Nature Sustainability*, *PNAS*, among others. Visit her personal website ([weipengenergy.com](http://weipengenergy.com)) to learn more.

TUESDAY  
**APRIL 12, 2022**  
2:00-3:30 PM

**REGISTER IN ADVANCE AT**  
<https://bit.ly/3N9MczG>



**MSU Center for  
Systems Integration and Sustainability**

## **2022 Rachel Carson Distinguished Lecture**



### ***Feeding the World Without Costing the Earth***

### **Andrew Balmford**

*Professor of Conservation Science, University of  
Cambridge; Fellow, The Royal Society*

Dr. Balmford focuses on how to reconcile biodiversity conservation with meeting human food needs and other land-demanding activities; the costs and benefits of retaining intact ecosystems; and identifying what works in conservation. He has published numerous high-impact articles and is the author of *Wild Hope: On the Front Lines of Conservation Success*.

---

**Wednesday, April 27 • 10:30 a.m.**

**[Zoom link](#)**

---

The Rachel Carson Distinguished Lecture is presented by the Center for Systems Integration and Sustainability and the Department of Fisheries and Wildlife at Michigan State University. Support is provided by the National Science Foundation.

**[Read the lecture abstract and learn more about Dr. Balmford](#)**

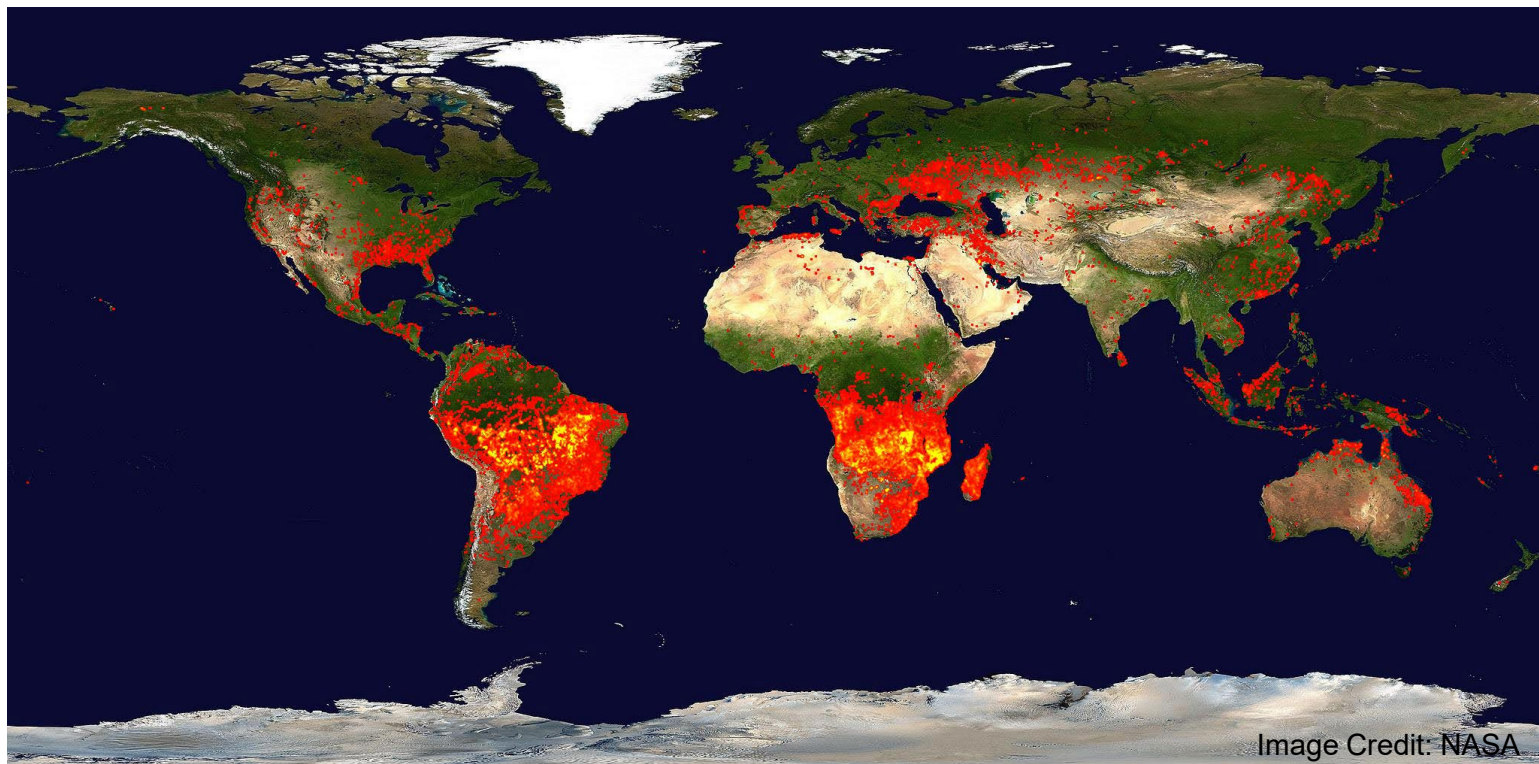


Image Credit: NASA

## GLOBAL SATELLITE MONITORING OF FIRE FROM SPACE: PAST, PRESENT AND FUTURE

Professor Roy has undertaken fire monitoring research as a member of the NASA MODIS, NASA VIRS, and USGS Landsat science teams for >20 years and is the co-chair of the international GOFC/GOLD Fire Implementation Team. His presentation will overview: the need for space-based fire monitoring to document past fire activity and contextualize contemporary activity due to anthropogenic and climate change, space agency fire monitoring from coarse resolution geostationary and polar-orbiting satellite systems, current progress using medium resolution polar-orbiting systems, validation fieldwork in Africa and Australia, and the current revolution in the use of commercial high-resolution satellite data with machine learning for space-based fire monitoring.

# DAVID ROY

Professor  
Department of Geography,  
Environment and Spatial  
Sciences &  
Center for Global Change  
and Earth Observations

WEDNESDAY

# 05.04.22

1:00 PM

Register in advance at:

<https://bit.ly/3J5Dgch>





# CERTIFICATION IN COLLEGE TEACHING INSTITUTE (CCTI) 2022

The Graduate School invites doctoral students, MMs, MFAs, and postdocs interested in working toward the Certification of College Teaching to join the CCTI 2022.

**May 9, 2022 (Monday)**

**5:00 pm - 6:30 pm (Virtual)**

**Introduction and information to get started**

**May 12, 2022 (Thursday)**

**9:00 am - 4:00 pm (In-person)**

**Understanding the University Context & Writing your Teaching Philosophy**

**May 13, 2022 (Thursday)**

**9:00 am - 4:00 pm (In-person)**

**Creating Effective Learning Environments & Incorporating Technology in your Teaching**

The in-person sessions will be held at the STEM Teaching and Learning Facility. Due to the interactive nature of the program, participants must attend all 3 sessions. There is a \$20 fee for registration.

[grad.msu.edu/cctp](https://grad.msu.edu/cctp)

For any questions, contact [stbaier@msu.edu](mailto:stbaier@msu.edu)



**MSU GRADUATE SCHOOL**



[chi.anthropology.msu.edu](http://chi.anthropology.msu.edu)

## Call for 2022-2023 Cultural Heritage Informatics Graduate Fellowship Applications

**APPLICATION DEADLINE: May 9, 2022**

The Cultural Heritage Informatics Initiative invites applications for its 2022-2023 Cultural Heritage Informatics Graduate Fellowship program.

### Fellowship Details

The Cultural Heritage Informatics Graduate Fellowship Program offer MSU graduate students the skills to creatively and thoughtfully apply digital methods and computational approaches to cultural heritage collections, materials, data, questions, and challenges.

While the fellowship, which spans an academic year, involves workshops, collaborative development work, and technical experimentation, the overall organizational focus of the fellowship is the development (either individually or collaboratively) of a significant and innovative digital cultural heritage project.

To support their work, fellows will receive a stipend of \$2500 per semester. In addition, fellows will have the opportunity to receive an additional \$1000 to expand their project during the summer. While applicants may have previous technical experience, such experience is not required to apply.

### Framing Cultural Heritage

The focus of the Cultural Heritage Informatics Graduate Fellowship Program is the application of digital methods and computational approaches within cultural heritage. In its focus, the program leverages the definition of cultural heritage commonly used by UNESCO:

*Material culture (artifacts and objects, monuments, structures, landscapes, etc) and intangible cultural attributes (oral traditions, language, ritual, social practices, traditional knowledge, performing arts, cuisine, etc) of a group, community, or society that are transmitted intergenerationally, used and maintained in the present, and preserved for future generations.*

The fellowship is interested in both tangible and intangible cultural heritage. Students whose work or interest in the fellowship is driven by this particular framing of cultural heritage are encouraged to apply.

## **Fellowship Projects**

The primary goal of the fellowship program is to provide an opportunity for participants to individually or collaboratively develop a significant and innovative digital cultural heritage. Projects might include (but are certainly not limited to) a mobile application, a digital exhibit, a digital archive, or a collaborative digital publication. The project must also have a significant public component. It is important to note that there is no single mechanism by which fellows will come to these projects. If applicants have an existing idea for a specific project, they are welcome to include that in their application statement. If applicants have an interest in a platform or technology (but no specific project in mind), they are encouraged to include that in their application statement. If fellows do not have a particular project or platform in mind, they will work with members of the Cultural Heritage Informatics Initiative in order to define a suitable project.

For more information on current CHI Graduate Fellow projects, visit the Cultural Heritage Informatics Initiative website ([chi.anthropology.msu.edu](http://chi.anthropology.msu.edu))

## **Responsibilities**

The Cultural Heritage Informatics Grad Fellowship carries the following obligations:

- All CHI Grad Fellows must attend the weekly meeting on Fridays from 1:30-3pm in LEADR (Old Hort 112) .
- All CHI Grad Fellows must be in-residence at LEADR for 10-3 each week on Fridays (part of this time will be dedicated to the fellowship program's weekly group meeting, while the rest of the time will be dedicated to collaborative/communal work between all of the fellows).
- All CHI Grad Fellows must complete a series of prerequisites (technical tutorials, readings, and exercises) before the beginning of the fellowship in the fall. Failure to complete these prerequisites by 8/26 will result in the fellowship offer being withdrawn
- All CHI Grad Fellows must write at least 1 substantive blog post per month on the CHI Website
- All CHI Grad Fellows must submit a project proposal at the end of the fall semester
- All CHI Grad Fellows must complete and launch their project by the end of the spring semester
- All CHI Grad Fellows must submit all final reporting materials after the launch of their fellowship project

**Those students who are not able to meet these obligations should not apply.**

## **Eligibility**

In order to be eligible to apply for a Cultural Heritage Informatics Graduate Fellowship, applicants:



- must be enrolled and be in good academic standing in a graduate program at Michigan State University (either at the Masters or Doctoral level). A primary focus of their work must be cultural heritage (as defined above).
- must be enrolled (and remain enrolled) full-time in the year for which they are applying.
- must demonstrate positive progress in their graduate programs.

Awards will be made to individuals who demonstrate academic achievement, are committed to a career that embraces the application of digital methods and computational approaches, and show potential to make meaningful contributions in the domain of digital cultural heritage.

### How to Apply

Applicants must complete and submit the following materials in order to be considered:

- A cover letter expressing their interest and introducing their motivations for applying.
- A current copy of their CV
- A brief statement (3 pages maximum) discussing the applicant's professional and scholarly goals, their interests in the application of digital methods in cultural heritage (broadly or specifically), and how the fellowship program will contribute to their professional & scholarly development.
- An *unofficial* copy of current transcripts

Applications should be submitted using the following form: <https://forms.gle/Vhoxhuf5fKQdWKoc9>

Please note, the application submission form requires that all users login with their MSU account. If you encounter a "You need permission" message, make sure you are logged out of your non-MSU google account. Please be sure to read and follow the direction included on the form about file formats and file naming.

Any questions can be directed to Ethan Watrall ([watrall@msu.edu](mailto:watrall@msu.edu))

### Application Deadline

Completed application package must be received by **5pm (EST) on May 9, 2022.**



## 2022-2023 Cultural Heritage Informatics Grad Fellowship Information Session

*Monday, May 2  
10:30-11:30 EST*

*Zoom (go to <https://msu.zoom.us/meeting/register/tJ0lf-6urjouGdl6enIVAQLfjuncKfJg1Vh86> to register)*

Join Dr. Ethan Watrall (Associate Professor of Anthropology and Director of the Cultural Heritage Informatics Initiative) for a casual, virtual information session about the Cultural Heritage Informatics (CHI) Grad Fellowship Program. Attendees will be provided with an introduction to the fellowship program, including disciplinary and intellectual scope, expectations, activities, resources, and support. The session is open to any and all graduate students who are interested in finding out more about the CHI Grad Fellowship Program.

Hosted and administered by the Department of Anthropology in partnership with LEADR, the Cultural Heritage Informatics Graduate Fellowships offer Michigan State University graduate students the skills to thoughtfully apply digital methods and computational approaches to cultural heritage materials, collections, data, questions, and challenges.

For more information on the Cultural Heritage Informatics Grad Fellowship Program, visit <http://chi.anthropology.msu.edu/fellowships/>

For more information about the session or, please email Ethan Watrall at [watrall@msu.edu](mailto:watrall@msu.edu)

**Department of Civil & Environmental Engineering and  
Center for Intelligent Water Resources Engineering  
Seminar Series**

**Water Quality Challenges and Opportunities from the Local to the Global Scale**

**Prof. Nandita Basu**

Director, Collaborative. Water Program, University of Waterloo  
Editor-in-Chief Journal of Hydrology  
Member, Royal Society of Canada, College of New Scholars, Artists and Scientists  
Professor and University Research Chair  
Civil and Environmental Engineering and Earth and Environmental Sciences  
University of Waterloo, 200 University Avenue West, Waterloo, Ontario, N2L 3G1, Canada  
Office: E2-2327, Phone: +1 (519) 888-4567 ext. 37917; Email: [nandita.basu@uwaterloo.ca](mailto:nandita.basu@uwaterloo.ca);  
The Basu Lab: Ecohydrology in the Anthropocene Webpage: [www.nanditabasu.weebly.com](http://www.nanditabasu.weebly.com)  
Twitter: @nanditabasu2

Topic: Nandita Basu Seminar at Michigan State University  
Time: Apr 8, 2022 03:00 PM Eastern Time (US and Canada)  
Join Zoom Meeting  
<https://msu.zoom.us/j/94633460826>  
Meeting ID: 946 3346 0826  
Passcode: MSU

**Abstract**

Water quality is under severe threat, from intensive agricultural practices, to climate change and wildfires threatening our drinking water supplies, to emerging contaminants from rapid urbanization and concentrated livestock operations. Multiple new policies have been developed to improve water quality in our lakes and streams; however, water quality remains a persistent problem. In this talk, Nandita Basu will address the nature of water quality challenges, especially focusing on the long-term legacies of nutrients, and discuss opportunities for regional and global scale solutions to water quality challenges. She will specifically focus on wetlands, and how targeted wetland restoration in intensive agricultural regions is critical for required improvements in water quality.

# BE 849

## Quantitative Human Health Risk Modeling and Analysis for Microbial Stressors

### Fall 2022 – 3 credits

Wednesdays: 1:50p – 4:40p

Location: Classroom (TBD) and Computer Lab (FAE 105 )

This course aims to teach students a broad set of tools and modeling skills used in health based environmental risk assessment and analysis. This course will focus pathogenic microorganisms as stressors in multimedia environments including air, water, soil and food. However, the overarching framework and tools can be applied in other areas including chemicals. Students will learn basic methods to model deterministic and stochastic systems in R. We will build mathematical models to integrate data and knowledge across several disciplines in order to describe the pathogen occurrence, persistence, fate-and-transport, exposure and human responses to microbes in order to numerically estimate health risks. Exposure levels will be informed by environmental measurements, monitoring data and/or by models that characterize the magnitude, frequency, and duration of contact between stressor and receptors. Course will cover topics in microbiology, including kinetics, and methods of detection to understand pathogenic behavior in the environment as well as the disease process to model interactions with the human body. Formal risk assessment also mathematically combines these and other factors with a rigorous treatment of the relevant uncertainties to formulate estimates of risk useful for decision making. Students will have the opportunity to also evaluate risk management strategies using decision analytic tools, such as cost-benefit analysis.

Teaching Style: A combination of lecture, active and cooperative learning including weekly computer lab sessions, and project-based learning

Instructor: Dr. Jade Mitchell ([jade@msu.edu](mailto:jade@msu.edu))

Recommended Background:

Mathematics background including calculus I and calculus II or equivalent. Probability background including STT 441 OR STT 442 OR STT 351 or equivalent. Background in engineering, environmental science, toxicology, microbiology, food safety, and/or public health.





# HANOVER FOREST

## ONLINE SCIENCE SEMINAR SERIES

TUESDAYS | 3:30 - 4:30 PM | ZOOM [canr.msu.edu/for/hanover](https://canr.msu.edu/for/hanover)



**JAN 11**

**DOMINIK SEIDEL**

“Structure-Function Relationships  
in Trees and Forests: New Insights  
from Fractal Analysis”



**JAN 25**

**JAVIER QUEZADA EUAN**

“Rainforests, Bees and Pollination  
Services in the Yucatán  
Península of México”



**MAR 1**

**SAM COOK**

“Linking Future Forests Students  
to Greener Jobs”



**MAR 29**

**PRAKASH NEPAL**

“Impacts on Global Forests and Wood  
Product Markets of Increased Mass  
Timber Use in Buildings”



**APR 12**

**SHIVAN GC**

“Logging Sector in the Lake  
States of Michigan, Minnesota,  
and Wisconsin: Status, Issues and  
Economic Potential”



Department of Forestry  
MICHIGAN STATE UNIVERSITY



## Become a Financial 4.0<sup>®</sup> Pro

Our Financial Education experts are here to help MSU Spartans be successful in the classroom and beyond.

**Attend one of MSUFCU's FREE online Financial 4.0 seminars today!**

### Get the Credit You Deserve

**Wednesday, January 26, 2022 • 3:00 p.m. - 3:30 p.m.**

Learn about establishing credit and the importance of credit cards. Also, get information on different loan options and the impact of interest.

---

### Before You Start Investing

**Tuesday, February 1, 2022 • 4:00 p.m. - 4:30 p.m.**

Learn some of the basics of investing including an overview of apps and websites, investing terminology, and establishing a long-term plan for your future.

---

### Renting vs. Buying

**Thursday, February 10, 2022 • 3:00 p.m. - 3:30 p.m.**

Learn to identify the best housing options based on your specific goals and financial plans.

---

### Spending with Intention

**Wednesday, February 16, 2022 • 4:00 p.m. - 4:30 p.m.**

Learn to identify your spending style, ways to budget, and how to maximize your savings.

---

### Scams Targeting You and Your Money

**Tuesday, February 22, 2022 • 5:00 p.m. - 5:30 p.m.**

Learn about new scams and ways to protect your identity with today's growing technology.

---

### Networking to the Next Step

**Thursday, March 3, 2022 • 4:00 p.m. - 4:30 p.m.**

Learn about the importance of forming connections, as well as tips for networking and setting up your professional social media presence.

## **Conquering Student Loans**

**Tuesday, March 15, 2022 • 3:00 p.m. - 3:30 p.m.**

Learn tips on taking out student loans and repayment strategies to help you control and conquer this debt.

---

## **Compensation, Benefits, and Retirement Planning**

**Wednesday, March 23, 2022 • 5:00 p.m. - 5:30 p.m.**

Learn about life after college when it comes to comparing careers, compensation, and discovering the impact of benefits on your budget. We'll also cover how to start saving for your retirement.

---

## **Money and Emotions: The Relationship Between Wealth and Health**

**Thursday, March 31, 2022 • 3:00 p.m. - 3:30 p.m.**

Learn how personal experiences relate to your financial health, along with the feelings and emotions that go along with saving and spending, and how this can affect your spending patterns and relationship with money.

---

## **Get the Credit You Deserve**

**Tuesday, April 5, 2022 • 4:00 p.m. - 4:30 p.m.**

Learn about establishing credit and the importance of credit cards. Also, get information on different loan options and the impact of interest.

---

## **Before You Start Investing**

**Wednesday, April 13, 2022 • 3:00 p.m. - 3:30 p.m.**

Learn some of the basics of investing. We'll cover apps and websites, investing terminology, and establishing a long-term plan for your future.

---

## **Spending with Intention**

**Thursday, April 21, 2022 • 5:00 p.m. - 5:30 p.m.**

Learn to identify your spending style, ways to budget, and how to maximize your savings.

**Join any of these FREE sessions via Webex!**



SCAN THE QR CODE OR VISIT [FINANCIAL40.ORG](https://financial40.org)  
TO FIND LINKS TO SESSIONS UNDER THE EVENTS TAB.