BE SURE TO CHECK OUT ALL OF THE EAPS COMMUNICATIONS MEDIA!

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NEW EAPS PUBLICATIONS/PRESENTATIONS


Link to article: https://doi.org/10.1080/00221341.2019.1593487

EAPS DEFENSE

MS Defense

Erhan Ergun
Monday, May 6
1:00 PM
HAMP 2201
The link to the new EAPS Magazine is as follows: https://bit.ly/2VeQ4bg

SUMMER NEWSLETTERS

Newsletters will be out bi-weekly during summer months. Next newsletter will be June 20, 2019.

STUDENT NEWS

KAVLI CIVIC SCIENCE FELLOW

Are you passionate about civic science, including science outreach, communication, and public engagement? We, a collaboration of scientific societies, are looking for someone to lead an initiative that will increase the support and incentives for scientists who incorporate civic science into their work. The Kavli Civic Science Fellow is an ideal position for someone who has experience in civic science and is looking for an opportunity to think more broadly about advancing the field. This fellowship presents a remarkable opportunity to work with leaders across multiple scientific societies, while ultimately, influencing the culture of science and its relevance to society.

The American Society for Cell Biology (ASCB), the American Association for the Advancement of Science (AAAS), the American Geophysical Union (AGU) and Research!America are partnering to support the work of a Kavli Civic Science Fellow who will work across multiple scientific societies to connect, and advance the societies’ collective support so that scientists are empowered to undertake civic science activities. As part of their work, the Kavli Civic Science Fellow will follow a collective impact model that will rely on strategizing, data collection, and analysis and team building. The goal of the fellowship is to lay the groundwork for a more cohesive whole among societies, as they work towards influencing long-term culture change within the scientific enterprise to increase value and support for meaningful civic science engagement. This position is an 18-month fellowship.

The Kavli Civic Science Fellow will have the opportunity to shape the activities of the fellowship, with leaders from multiple scientific societies, to meet this larger goal. By working with a wide range of scientific societies, the Kavli Civic Science Fellow along with the scientific societies will set a common agenda, which establishes an agreed understanding of the problem and a shared vision of change. They will then work to establish common progress measures and mutually reinforcing activities.

Some of the activities that may be undertaken by the Kavli Civic Science Fellow in collaboration with representatives from the scientific societies may include:

- Conduct a landscape assessment of scientific societies’ visions, goals, capabilities, programs and opportunities related to civic science.
- Recommend ways in which scientific societies can leverage their strengths and authorities to encourage academic and funding institutions to provide deeper support for civic science—including altering their incentive structures.
- Highlight existing resources and speed the development of new resources that support scientific societies’ planning, implementation, and evaluation of civic science, including resources that societies make available to their members.
- Increase collaboration among scientific societies to accomplish work at the grassroots level and to find efficiencies in the existing system and leverage these efficiencies to better support societies of varying sizes and scales that want to encourage their members to do effective civic science engagement.

The candidate will also be part of the inaugural class of Civic Science Fellows. The Fellowship will embed emerging leaders from diverse backgrounds in organizations working at the many interfaces of science and society. Additional fellows will be hired by other organizations later this year. The benefits of being a Civic Science Fellow include access to a network of Fellows at other institutions, professional development in subject matter as well as leadership skills, and mentoring.

http://www.eaps.purdue.edu/
Requirements

- Master’s degree or higher in science, science communication or related field.
- Experience in an aspect of civic science: science outreach, public engagement, science communication.
- Experience in program or project management.
- Understanding of the culture of science and scientific societies or similar organizations is desirable.
- Strong written and verbal communication skills.
- Ability to work independently.
- Comfortable working with CEOs and with mid-level staff who run programs.
- Possess initiative, be entrepreneurial, and think strategically and long-term.

ASCB will be the fiscal and administrative home institution for the Fellow, who will spend time in several other societies located in the DC area in a series of 2 month rotations. This is an 18-month position. The salary for this fellowship is $80K per year plus benefits.

Please submit a cover letter with salary requirements and resume. Apply at: https://recruiting.paylocity.com/Recruiting/Jobs/Apply/118055

RESEARCH SCIENTIST AT ESRL/GSD IN BOULDER, CO

The scientist will develop and use computer software to evaluate observation impacts within regional and global data assimilation / model prediction systems. Other work will include testing and evaluation of global model prediction systems, including data assimilation and model physics modules. The observation impact work will include contributing to community-based Forecast Sensitivity to Observation Impact (FSOI) system.

For complete position announcement and qualification requirements, visit: http://jobs.colostate.edu/postings/66252

Full consideration date is 11:59 PM MDT, May 17 2019

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DOE OFFICE OF SCIENCE GRADUATE STUDENT RESEARCH PROGRAM

The Office of Science Graduate Student Research (SCGSR) program is now accepting applications. Applications are due May 9, 2019 at 5:00PM Eastern Time.

The goal of the Office of Science Graduate Student Research (SCGSR) program is to prepare graduate students for science, technology, engineering, or mathematics (STEM) careers critically important to the DOE Office of Science mission, by providing graduate thesis research opportunities at DOE laboratories. The SCGSR program provides supplemental awards to outstanding U.S. graduate students to pursue part of their graduate thesis research at a DOE laboratory/facility in areas that address scientific challenges central to the Office of Science mission. The research opportunity is expected to advance the graduate students’ overall doctoral thesis while providing access to the expertise, resources, and capabilities available at the DOE laboratories/facilities.

The SCGSR program is sponsored and managed by the DOE Office of Science’s Office of Workforce Development for Teachers and Scientists (WDTS), in collaboration with the 6 Office of Science research programs and the DOE national laboratories/facilities. Online application and awards administration support is provided by Oak Ridge Institute of Science and Education (ORISE) under Oak Ridge Associated Universities (ORAU).

The SCGSR program provides supplemental funds for graduate awardees to conduct part of their thesis research at a host DOE laboratory/facility in collaboration with a DOE laboratory scientist within a defined award period. Collaborating DOE Laboratory Scientists may be from any of the participating DOE national laboratories/facilities. The award period

http://www.eaps.purdue.edu/
for the proposed research project at DOE laboratories/facilities may range from 3 to 12 consecutive months.

Story Link:  
https://science.energy.gov/wdts/scgsr/

GCC 2019 ORGANIZING COMMITTEE
ACCEPTING APPLICATIONS FOR THIS YEAR’S
GRADUATE CLIMATE CONFERENCE

Calling all graduate students studying climate!

Graduate students in MIT’s Program in Atmospheres, Oceans and Climate and the Woods Hole Oceanographic Institution are pleased to announce the 13th Graduate Climate Conference! GCC 2019 is scheduled for November 7-10, 2019 at the Marine Biological Laboratory on the south shores of Cape Cod, MA. This is a conference for grad students, organized and run by grad students.

This year's conference is focused on bringing together graduate researchers who think about climate from all disciplines, including but not limited to atmospheric, biological, earth, and ocean sciences, geography, anthropology, public policy, and economics. The conference is unique because only students attend, providing a rare opportunity for the next generation of climate researchers to interact without the inhibitions that accompany the presence of faculty and senior scientists.

Applications are now open. The deadline for abstract submission is June 15th. Food, lodging, and conference registration fees are provided by our generous sponsors; travel grants will be provided on an as-needed basis to as many participants as possible.

For more information, and a link to the application page, visit the official website:  
http://gradclimateconf.mit.edu. Feel free to contact the organizing committee with questions at gcc-2019@mit.edu.

CIMMS Research Scientist  
Planetary Boundary Layer Modeler

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for an early-career Research Scientist to provide scientific and meteorological expertise in the areas of planetary boundary layer (PBL)/turbulence parameterization schemes for high-resolution numerical modeling in support of the Warn-on-Forecast program at the National Severe Storms Laboratory (NSSL). In addition to PBL modeling expertise, this Research Scientist will also require experience in the evaluation of numerical model output using PBL observations obtained from research platforms like the NSSL Collaborative Lower-Atmosphere Mobile Profiling System or unmanned aircraft systems.

As part of this opportunity, the Research Scientist will explore and develop new modeling approaches for PBL processes related to forecasting severe convective weather to support the NSSL Warn-on-Forecast System. Furthermore, the Research Scientist will explore the potential for new and emerging PBL profiling systems under development in the international community (e.g. water vapor differential absorption lidars) to enhance NSSL’s mission of understanding severe convective weather processes and supporting National Weather Service forecast operations. The incumbent will also propose revised scientific priorities for observing, analyzing, and modeling the PBL in relation to severe convective weather as new knowledge is generated. The incumbent will work directly with research scientists at NSSL and will be encouraged to collaborate actively with scientists from other institutions with expertise in PBL profiling and research (e.g. OU and NOAA/ESRL/Global Systems Division and Physical Science Division). The position will be based in Norman, OK within the National Weather Center (NWC), a highly collaborative forecasting, research, and academic environment containing a number of NOAA and OU organizations.

[See attached flyer for complete information]
Applications are now being accepted for the upcoming Gordon Research Conference (GRC) on Radiation and Climate and associated Gordon Research Seminar (GRS) for early career scientists.

**Bridging Spatial and Temporal Scales in Radiation and Climate**

**July 21-26, 2019**

**Bates College, Lewiston, ME**

GRC Chairs: Andrew Gettelman and Bastiaan van Diedenhoven

GRS Chairs: Carolin Klinger and Elin McIlhattan

Since physical processes related to radiation and climate occur on scales from the microscale to the global, and from seconds to ice ages, bridging observations and modeling between such scales is challenging but crucial. Each range of spatial and temporal scales adds knowledge and understanding. Topics of this conference will include: ice and liquid clouds, aerosols, climate sensitivity, dynamics, greenhouse gases and the Arctic. Each topic will be discussed from the perspectives of various contrasting scales with a focus on measurement, modeling and theory to analyze critical radiation and climate questions.

Posters are invited on all of these topics. As is custom with GRCs, there will be time for discussion, reflection, and interaction across disciplines. [Link to GRC site and application](http://www.eaps.purdue.edu/)

Additionally, a Gordon Research Seminar (GRS) for early career scientists will be held July 20-21. The GRS is a 2-day meeting immediately preceding the GRC that enables graduate students, post-docs, and other scientists with comparable levels of experience to come together in a highly-stimulating and non-intimidating environment to discuss their current research and build informal networks with their peers. Those interested in attending both the GRS and GRC must submit an application to each. [Link to GRS site and application](http://www.eaps.purdue.edu/)

***Please note that the number of GRS participants is limited to 60 people. We advise you to apply early to secure your place***

If you have any questions or would like further information on the GRC please contact Andrew Gettelman, or for the GRS contact Elin McIlhattan.

**GRADUATE STUDENT INTERNATIONAL TRAVEL AWARDS**

2019 College of Science Graduate Student International Travel Awards

Application Submission Deadline: 4:00 PM May 31, 2019

For travel between July 1, 2019 and December 31, 2019

~ 2 or 3 awards ranging up to $800 for international travel will be awarded~

Prerequisites:

- must be a full-time PhD student within the Department in the College of Science
- must be making an oral or poster presentation at an international conference

Priority will be given to:

- travel to make an oral presentation at a conference
- attendance at an interdisciplinary conference
- students who have passed their prelims

To apply, please send electronically as one file:

- CV (2 page limit)
- brief summary of research (1 page limit)
- brief statement of purpose for attending conference specifying whether your presentation is oral or poster
- provide web link to conference
- letter of support from research advisor

Send applications to Robin Sipes at rsipes@purdue.edu

{See attached flyer for complete details}

**UCAR NEXT GENERATION FELLOWSHIPS**

Each year the University Corporation for Atmospheric Research (UCAR) selects three graduate students from underrepresented communities for fellowships tracks in Earth System Science, Diversity & Inclusion, and Public Policy.

http://www.eaps.purdue.edu/
These fellowships offer graduate students the opportunity to learn alongside leaders in their fields. Just as important, these programs bring an infusion of fresh ideas and new perspectives to our organization. Each two-year award provides financial support for graduate school and two summer internships.

THE UCAR NEXT GENERATION FELLOWSHIPS ARE INTENDED FOR GRADUATE STUDENTS:

- attending a North American university
- from underrepresented populations
- holding an undergraduate degree in atmospheric science or a related Earth system science, such as one of the other geosciences, chemistry, computer science, engineering, environmental science, mathematics, meteorology, oceanography, physics, or social science

FOR MORE INFORMATION AND TO APPLY, PLEASE VISIT: https://www.ucar.edu/opportunities/fellowships

These awards are for two school years and two summer internships. Fellows receive $20,000 per school year, plus support during the summer internships. Submission Deadline is June 3, 2019. Awards to be announced August 1, 2019. [See attached flyer for complete details]

UNDERGRADUATE SUMMER RESEARCH OPPORTUNITIES AT THE SCRIPPS INSTITUTION OF OCEANOGRAPHY

The Scripps Institution of Oceanography is offering summer research experience for undergraduates, spanning fields that include earth sciences, geophysics, and atmospheric science. For a list of these internships, go to: https://scripps.ucsd.edu/undergrad/research-programs/summer-research-opportunities.

PURDUE APPLIED MICORBIOME SCIENCES SYMPOSIUM (MAY 13-14, 2019)

Six world-renowned researchers have agreed to be keynote speakers at the inaugural Microbiome Symposium 2019 at Purdue University.

“Predicting and Controlling Microbiomes for Health, Industry, and the Environment” is the focus of the May 13-14 event at the Beck Agricultural Center.

The three goals of this symposium are to: i) advance the science and translation of managing of microbial ecosystems for the improvement of human health, industrial processes, and environmental sustainability; ii) generate networking opportunities for scientists interested in harnessing microbiomes to build relationships across the University, the Midwest, and the Nation; and iii) foster Purdue’s emerging, multi-disciplinary applied microbiome research community.

The keynote speakers will be addressing the following six key areas:

- **Plants**: Jan E. Leach (Colorado State, started Phytobiomes Initiative)
- **Insects**: Seth Bordenstein (Vanderbilt, associate director of the Vanderbilt Microbiome Initiative)
- **Biotechnology**: Michael Fischbach (Stanford University, NIH Director’s Pioneer Award recipient)
- **Soil**: Mary K. Firestone (UC Berkley, member of the National Academy of Sciences)
- **Production Animals**: Bryan White (Mayo Clinic and University of Illinois Alliance for Technology-Based Healthcare)
- **Humans**: Liping Zhao (Rutgers University, Eveleigh-Fenton Chair of Applied Microbiology)

The symposium aligns with Purdue’s Giant Leaps celebration, acknowledging the university’s global advancements made in health as part of Purdue’s 150th anniversary. This is one of the four themes of
the yearlong celebration’s Ideas Festival, designed to showcase Purdue as an intellectual center solving real-world issues.

For updates on the symposium, and more information about the keynote speakers, visit https://ag.purdue.edu/microbiome-2019/.

IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter is used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Individual email announcements will no longer be sent unless the content is time-sensitive. We will continue to include our publications, presentations and other recent news items as well.

Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at http://www.eaps.purdue.edu/news/newsletters.html and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Katherine Huseman (khuseman@purdue.edu) by 5:00pm on Thursday of each week for inclusion in the Monday issue.

If it is in the newsletter, we assume you know about it and no other reminders are needed. For answers to common technology questions and the latest updates from the EAPS Technology Support staff, please visit: http://www.eaps.purdue.edu/resources/information_technology/index.htm.

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at http://www.EAPS.purdue.edu/events-calendar.html.
CIMMS Research Scientist – Planetary Boundary Layer Modeler

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for an early-career Research Scientist to provide scientific and meteorological expertise in the areas of planetary boundary layer (PBL)/turbulence parameterization schemes for high-resolution numerical modeling in support of the Warn-on-Forecast program at the National Severe Storms Laboratory (NSSL). In addition to PBL modeling expertise, this Research Scientist will also require experience in the evaluation of numerical model output using PBL observations obtained from research platforms like the NSSL Collaborative Lower-Atmosphere Mobile Profiling System or unmanned aircraft systems.

As part of this opportunity, the Research Scientist will explore and develop new modeling approaches for PBL processes related to forecasting severe convective weather to support the NSSL Warn-on-Forecast System. Furthermore, the Research Scientist will explore the potential for new and emerging PBL profiling systems under development in the international community (e.g. water vapor differential absorption lidars) to enhance NSSL’s mission of understanding severe convective weather processes and supporting National Weather Service forecast operations. The incumbent will also propose revised scientific priorities for observing, analyzing, and modeling the PBL in relation to severe convective weather as new knowledge is generated. The incumbent will work directly with research scientists at NSSL and will be encouraged to collaborate actively with scientists from other institutions with expertise in PBL profiling and research (e.g. OU and NOAA/ESRL/Global Systems Division and Physical Science Division). The position will be based in Norman, OK within the National Weather Center (NWC), a highly collaborative forecasting, research, and academic environment containing a number of NOAA and OU organizations.

The principal duties of this position are:

1. Provide scientific and technical expertise in the development and use of PBL and land surface schemes to advance high-resolution modeling of processes related to convection initiation and severe convective weather.

2. Apply numerical approaches to enhance the representation of storm-scale processes in various geographic locations and environmental regimes at high spatio-temporal resolution.

3. As needed, represent NSSL/CIMMS by contributing to scientific publications and presenting scientific results at professional off-site conferences, workshops, symposia, and hazardous-weather-related outreach events.

The ideal candidate for this position would possess a PhD in meteorology or atmospheric science and have extensive experience in the use, evaluation, and modification of PBL schemes in state of the art numerical weather prediction models (i.e., WRF-ARW, FV3, etc). In addition, knowledge and expertise in areas of ground-based remote sensing, dynamics of the boundary layer, and severe convective weather knowledge is also a plus. Applicants should identify their experience in the
above areas. Experience with field work and leading peer-reviewed publications is especially desirable.

The incumbent will work under general supervision, and is expected to contribute to field efforts as needed, but will work independently and determine his/her own specific research project(s) related to the position description.

The beginning salary for this position will be based on qualifications and experience and will include University benefits. Information on benefits may be found at: http://hr.ou.edu. The start date for the position is negotiable but prior to August 1, 2019.

Appointment to this position is contingent on passing a Department of Commerce/NOAA background check.

To apply, please forward your CV, cover letter and list of three references to:

   Tracy Reinke,
   Executive Director, Finance and Operations
   University of Oklahoma CIMMS
   120 David L. Boren Blvd., Suite 2100
   Norman, OK 73072-7304
   treinke@ou.edu
SCI 395 SAIL SCHOLARSHIP

SCI 395 GLOBAL SCIENCE EXPERIENCE

- One-on-one weekly mentoring by College of Science personnel
- Customized to student’s level of intercultural competence
- Includes career mentoring
- Assignments encourage meaningful interaction with host culture and other cultures
- 12 modules focused on cultural knowledge (self-awareness, worldview frameworks), cultural attitudes (curiosity, openness), cultural skills (verbal and nonverbal communication, empathy), and teamwork knowledge and skill
- Past pre-/post-assessments demonstrate significant increases in intercultural competence.
- Completion fulfills College of Science Language & Culture Requirement
- Completion waves diversity report on study abroad experience for the Learning Beyond the Classroom Certificate program

COM 30301 SENTIO

- Mentor facilitated group discussions, 4 times per semester
- Reflective assignments
- MOOC-like learning environment
- 20 modules focused on self-awareness, other awareness, emotional resilience, and bridging difference with special attention to power, privilege and micro-aggressions
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• brief statement of purpose for attending conference specifying whether your presentation is oral or poster

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• letter of support from research advisor

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