



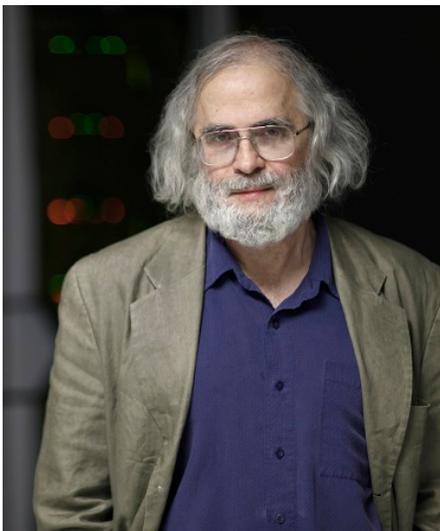
AOS & CIMES Newsletter

Winter 2019

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Isaac Held Awarded 2018 Roger Revelle Medal

AOS Faculty Member and Senior Meteorologist Isaac Held was awarded the 2018 Roger Revelle Medal “for his outstanding scientific contributions to the understanding of the dynamics of the Earth’s atmosphere and climate and for his pioneering insights into the structure of atmospheric circulation patterns and the interplay with the Earth’s hydrologic cycle” at the AGU Fall Meeting Honors Ceremony in Washington, D.C. The presentation took place on December 12, 2018.



AOS Faculty Member & Senior Meteorologist Isaac Held

Established in 1991, the medal is awarded annually in recognition of “outstanding contributions in atmospheric sciences, atmosphere-ocean coupling, atmosphere-land coupling, biogeochemical cycles,

climate or related aspects of the Earth system.” Held is “one of the deepest thinkers and a leading authority in climate dynamics, with his innovative science yielding novel perspectives on fundamental aspects of the atmospheric general circulation such as the width of the Hadley cell, relation between large-scale temperature gradients and eddy fluxes, and partitioning of heat transport in the tropics between the oceans and atmosphere,” according to GFDL Director V. Ramaswamy. Among his many achievements is the development of a hierarchy of dynamical models of increasing complexity that have provided new pathways toward unraveling the intricacy of the climate system.

Equally noteworthy is his exceptional scientific leadership at GFDL for more than four decades, including playing a key role in the development and application of state-of-the-art atmosphere and climate models to frame and address important scientific questions. Held’s sustained, scientific citizenship and breadth of research spans a wide range of questions, as evidenced by his eloquent articulation of how global warming can enhance hydrological extremes, both wet and dry, which was pivotal in the Intergovernmental Panel on Climate Change’s assessment (2007); his influential essays on large-scale dynamics, global warming, and climate modeling; his widely-acclaimed blog on climate dynamics; and the 190 widely-cited papers he authored, spanning atmospheric dynamics, circulation, and climate.

As lecturer with the rank professor in the AOS Program, Held has had a profound impact on the more than 20 doctoral students and 30 postdoctoral scientists he has mentored over his illustrious career, many of whom have gone on to distinguished scientific careers of their own. He is a revered colleague to many in the AOS/GFDL community for not only

Program in Atmospheric and Oceanic Sciences (AOS) & The Cooperative Institute for Modeling the Earth System (CIMES)

Inside this issue:

- Held Awarded Revelle Medal.....1*
- Increasing Diversity in Climate & Earth System Science Focus of BCC Visit.....2*
- Resplandy Named 2019 Sloan Research Fellow.....3*
- CICS to CIMES.....3*
- Princeton – GFDL Paper Achieves Benchmark.....4*
- 2019 GFDL Poster Expo4*
- GFDL’s Jasmin John Pioneers Scientist-in-Residence Program.....4*
- Tri-MIP-athlon-2 Planned for June.....5*
- Research in Action.....5*
- AOS & CIMES News.....6*

**TigerTransit/Shuttle Services
Operating on Spring Schedule:
<https://transportation.princeton.edu/sites/default/files/F-Forrestal-PPPL.pdf>**

his seminal scientific contributions in advancing our understanding of the Earth's climate, but also his collegial and generous spirit.

The Roger Revelle Medal is the latest in an impressive list of numerous awards and honors received by Held, including his election to the National Academy of Sciences and as a Fellow of the American Geophysical Union (AGU) and the American Meteorological Society (AMS). He has received the AMS Carl-Gustaf Rossby Research Medal, the BBVA Frontiers of Knowledge Award for Climate Change, and the NOAA Presidential Rank Award.

Held joins an esteemed group of former Revelle Medal recipients, including AOS Senior Meteorologist Suki Manabe, who was awarded the medal in 1993, Professor of Geosciences, Emeritus, and Senior Geoscientist Michael Bender, who received the award in 2008, and CIMES Director Jorge Sarmiento, Princeton's George J. Magee Professor of Geosciences and Geological Engineering, who was the 2009 Revelle Medal recipient. ■

Increasing Diversity in Climate & Earth System Science Focus of Bronx Community College Visit

Highly selective, private universities and federal laboratories oftentimes seem worlds apart from community colleges. In an effort to bridge that divide, a cohort of GFDL/AOS/CIMES scientists visited Bronx Community College (BCC) to explore ways of developing opportunities for research collaborations with BCC faculty and to expose BCC students to the work being conducted at the Institute and Lab in the field of climate and earth system science. The visit took place on December 3, 2018.

The visit was a follow-up to the participation of Monika Sikand, an assistant professor in Engineering, Physics, and Technology at BCC, in the CICS

Visiting Faculty Exchange Fellowship program held last summer. This exchange fellowship is part of the larger effort to broaden participation in the climate-related sciences through collaborative visits to Princeton of up to three months from faculty based at U.S. academic institutions, particularly those experienced working with students from groups underrepresented in science.

The Princeton cohort, hosted by Professor Sikand, included GFDL Director V. Ramaswamy, CIMES Associate Director Sonya Legg, along with AOS Postdoc Graeme MacGilchrist, AOS Associate Research Scholar Brandon Reichl, AOS Postdoc Ho Ga (Veronica) Chan, and AOS Graduate Student Houssam Yassin.



BCC administrators and faculty, GFDL Director V. Ramaswamy (2nd from left), CIMES Associate Director Sonya Legg (5th from left)

The group met with BCC's administration and STEM faculty, discussing ways in which they can work together to introduce students from largely underrepresented groups to the field of climate and earth system science. The AOS/CIMES postdocs and student held a Q&A session with a large group of attentive BCC students, sharing their academic backgrounds and individual career pathways – including the factors that challenged them or inspired them along the way. They also fielded general questions about climate science and earth system modeling. The endeavor not only exposed BCC students to the field and the varied pathways to enter it, but also provided a unique opportunity for the GFDL/AOS/CIMES scientists to gain new perspectives and see beyond their Princeton experience.

“The visit to BCC was really enjoyable and productive,” MacGilchrist said. “Dr. Sikand had clearly put in a lot of effort to ensure that we got a lot done over the

course of just a few hours. It was great to chat about climate science with students and faculty alike, and to be able to reflect and offer advice on what a career in research looks like.”



L to R: BCC Assistant Professor Monika Sikand (Standing) & Princeton Panel: AOS Postdoc Graeme MacGilchrist, AOS Graduate Student Houssam Yassin, AOS Postdoc Ho Ga (Veronica) Chan, & AOS Associate Research Scholar Brandon Reichl

“We hope to follow up with guest lectures at BCC, student internships at GFDL through the Cooperative Institute for Modeling the Earth System (CIMES), and day-long field trips for groups of BCC students to visit GFDL,” said Legg, with the ultimate goal of attracting students from diverse backgrounds into the field of climate and earth system science.

This recent outreach effort echoes a wider movement within GFDL, AOS, and CIMES, aimed at developing stronger pathways for broadening participation in STEM disciplines and expanding cross-sector efforts, and ultimately broadening the talent pool in the climate sciences at Princeton and beyond.

Interested faculty, postdocs, and students should contact Sonya Legg about upcoming outreach opportunities. ■



Laure Resplandy Awarded 2019 Sloan Research Fellowship

AOS Faculty Member Laure Resplandy, an assistant professor in Geosciences and the Princeton Environmental Institute, is among ten Princeton scientists awarded 2019 Sloan Research Fellowships, highly competitive grants given to outstanding young scholars working at the frontiers of their fields.



AOS Faculty Member Laure Resplandy

The [10 Princeton Fellows](#) are among 126 biologists, chemists, computer scientists, economists, mathematicians, neuroscientists, ocean scientists, and physicists chosen for the award from 57 colleges and universities in the United States and Canada. Princeton earned the most fellowships of any single-campus institution, with at least one winner from each field.

A biogeochemical oceanographer who joined the faculty in 2017, Resplandy's research goals are to understand how climate and ocean physics influence marine biogeochemistry and ecosystems and how these changes can in turn impact the climate itself. Resplandy's approach is to design and develop numerical models (from ocean regions to global climate system) and statistical tools to interpret in-situ and satellite observations. Her research interests include changes in oxygenation; global change, ocean

acidification, and carbon cycle; influence of ocean physics on biological activity and biological fluxes; and climate modeling - ocean small scale modeling.



“Sloan Research Fellows are the best young scientists working today,” says Adam F. Falk, president of the Alfred P. Sloan Foundation. “Sloan Fellows stand out for their creativity, for their hard work, for the importance of the issues they tackle, and the energy and innovation with which they tackle them. To be a Sloan Fellow is to be in the vanguard of twenty-first century science.”

Valued not only for their prestige, Sloan Research Fellowships are a highly flexible source of research support. Funds may be spent in any way a Fellow deems will best advance his or her work. Winners receive a two-year, \$70,000 fellowship to further their research.

Open to scholars in eight scientific and technical fields — chemistry, computer science, economics, mathematics, computational and evolutionary molecular biology, neuroscience, ocean sciences and physics — the Sloan Research Fellowships are awarded in close coordination with the scientific community. Candidates must be nominated by their fellow scientists, and winning fellows are selected by independent panels of senior scholars based on a candidate's research accomplishments, creativity, and potential to become a leader in his or her field.

The Alfred P. Sloan Foundation is a philanthropic, not-for-profit grant making institution based in New York City. Established in 1934 by Alfred Pritchard Sloan Jr., then-President and Chief Executive Officer of the General Motors Corporation, the Foundation makes grants in support of original research and education in science, technology, engineering, mathematics, and economics. A full list of the 2019 Fellows is available at the Sloan Foundation website at <https://sloan.org/fellowships/2019-Fellows>. ■

What's in a name? CICS to CIMES

The Cooperative Institute for Modeling the Earth System (CIMES) is in the process of replacing the existing Cooperative Institute for Climate Science (CICS), a federally funded collaboration between Princeton University and NOAA's Geophysical Fluid Dynamics Laboratory (GFDL) founded in 2003. CIMES is building on the foundation laid by its predecessor and on the collective knowledge and complementary resources that have evolved over the past five decades of close collaboration between the University and GFDL. The CICS cooperative agreement expires in June 2019.

The name change reflects the increasing breadth of the institute's research, which is not confined to the physical climate system, but also includes ocean and terrestrial ecosystems. CIMES aims to understand and predict the earth system across time scales from days to decades, on local to global scales, and with particular focus on extreme weather and problems of relevance to society, including impacts on marine ecosystems, drought, and air quality.

CIMES combines GFDL's unparalleled expertise in numerical climate modeling with Princeton's scientists as well as public policy experts who are world-renowned for shaping the national and international response to earth system change.

“I'm excited to facilitate the interaction between Princeton and GFDL through CIMES, bringing the combined research expertise of an expanding group of scientists from both institutions into new areas,” said CIMES Associate Director Sonya Legg.

CIMES will address three themes, directly aligning with scientific research at GFDL: Earth system modeling; Seamless prediction across time and space scales; and Earth system science: Analysis and applications.

CIMES research will continue to involve graduate students and postdoctoral researchers at both institutions, providing outstanding opportunities to train the next generation of leaders in Earth system

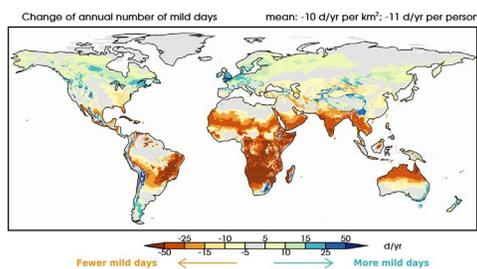
sciences through the AOS graduate and postdoctoral programs. The institute will also continue efforts to broaden the participation of underrepresented groups in Earth system science through summer internships, visiting faculty exchange fellowships and research collaborations with a diverse range of institutions.

CIMES will be launching a new website in the coming weeks, part of a broader initiative to frame the identity of the institute as well as its vision and mission.

Princeton - GFDL Paper Achieves Benchmark

Contributed by Maria Setzer, GFDL Communications Director

The academic publishing company Springer Nature announced that a paper coauthored by Princeton University and GFDL scientists last year is among the ten most downloaded journal articles about climate published by Springer in 2018. The paper, “Shifting patterns of mild weather in response to projected radiative forcing” authored by former AOS Postdoc Karin van der Wiel, GFDL Physical Scientist Sarah Kapnick '04, and AOS Faculty Member Gabriel Vecchi, was published in *Climate Change*.



(Image by Karin van der Wiel, Princeton University, and NOAA)

The authors used high-resolution climate models to investigate how climate change may affect the frequency and location of mild weather. They showed that the global average of good weather days will drop, with dramatic declines for some, increases in good weather for others. Globally the number of annual mild days is projected to decrease by 10 by the end of the century, because of climate warming from the buildup of human-caused greenhouse gases in the atmosphere.

Springer's Climate Program published a broad mix of critical research in 2018, from some of the world's leading journals in the field. This Climatic Change paper was downloaded 11,000 times.

Currently, Dr. van der Wiel is a postdoctoral researcher at the Royal Netherlands Meteorological Institute; Dr. Kapnick is a former AOS postdoctoral research associate; and Dr. Vecchi is a professor of Geosciences and the Princeton Environmental Institute, and former head of the climate variation and predictability group at GFDL. This work was supported by the Cooperative Institute for Climate Science (CICS).



GFDL 2019 Poster Expo Planned for May

GFDL will be holding its sixth Poster Expo on May 8, 2019 from 1-4 pm. The event, which was postponed in January due to the federal government shutdown, will be held in the Smagorinsky Seminar Room.

The Poster Expo is an opportunity to showcase the breadth of research conducted by the broader GFDL community and to foster dialogue and interactions among community members.

The Expo gives young researchers, in particular, experience presenting their ideas in the format used by many academic conferences, and it provides an informal forum for more seasoned GFDL scientists, AOS/CIMES postdocs and research scholars, and AOS students to highlight the progress and results of their research and scholarly work. The event also promotes collaboration among colleagues and community partners.

Poster presentations on research topics relevant to the broader GFDL community,

as well as topics related to diversity, equity, and inclusion are welcome. Only poster submissions with either first author or at least one co-author affiliated with GFDL/UCAR/Engility/USGS/AOS/CIMES who is actively collaborating on the project will be accepted.

Logistics and registration information can be found on the [2019 Poster Expo webpage](#). Please note that due to space limitations, posters are limited to 28. ■

Scientist-in-Residence Program Pioneered by GFDL's Jasmin John

Contributed by Maria Setzer, GFDL Communications Director

The Ocean Discovery Institute, in San Diego, uses ocean science to empower students from underserved urban communities. The Institute provides science opportunities paired with mentoring and the tools to overcome challenges so that young people unlock their potential. The Institute has established a Scientist-in-Residence Program to connect established science and conservation leaders with inquisitive young minds. It is a competitive program open to professionals from all scientific fields who have an interest in mentoring underserved youth. Scientists-in-Residence spend 2-3 months living and working at the Institute's Living Lab science education facility in San Diego, California.

Jasmin John, Research Physical Scientist in GFDL's Biogeochemistry, Atmospheric Chemistry, and Ecosystems Division, pioneered the program, serving as the Institute's first Scientist-in-Residence last year. In December, she spoke about the rewarding experience to other interested scientists at AGU's Fall Meeting in Washington, D.C.



At AGU's Fall Meeting in December: Joel Barkan (Ocean Discovery Institute), Jasmin John (GFDL), Sarah Schoedinger (NOAA Office of Education), DaNa Carlis (NOAA Office of Weather and Air Quality), and Catalina Martinez (NOAA Office of Exploration and Research), who will be the next Scientist-in-Residence at Ocean Discovery Institute.

Ocean Discovery Institute staff provide the Scientists-in-Residence mentorship training to build transferable mentorship skills. Scientists-in-Residence spend meaningful time directly interfacing with students and the public to communicate their research interests. Housing is provided at no cost. Candidates must represent the diversity or background of the local community, or relate to the challenges it faces.

For additional information, see the Ocean Discovery Institute's web site:

<https://oceandiscoveryinstitute.org/scientist-in-residence-program/scientist-in-residence-program-details/>. ■

Tri-MIP-athlon-2 Planned for June



Tri-MIP-athlon-2, the joint Aerosol Chemistry Model Intercomparison Project (AerChemMIP)/ Radiative Forcing Model Intercomparison Project (RFMIP)/ Precipitation Driver Response Model Intercomparison Project (PDRMIP) Workshop in support of CMIP6 will be held from June 11-14, 2019 in Princeton at the Friend Center, with support from the Cooperative Institute for Modeling the Earth System (CIMES). This is the second

of such workshops to be held following one held at the University of Reading, United Kingdom last year.

The workshop aim is to discuss the use of AerChemMIP, RFMIP, and PDRMIP integrations and diagnostics to advance our understanding of composition, forcing and feedback processes for better constraints on past changes and future projections. It will cover a wide range of topics of interest to AOS students and faculty, including the impact of aerosol, greenhouse gases on global temperature and rainfall, influences of atmospheric chemistry upon air quality and radiative forcing and the quality of radiative transfer estimates in GCMs.

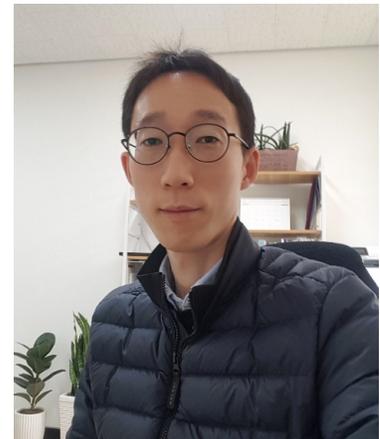
All AOS students and faculty who are interested in these subject areas are encouraged to submit an abstract. The workshop will feature oral and poster science presentations as well as discussion sessions. The workshop is free to attend, but registration is required. The deadline for submitting abstracts is April 12 and registration is May 2, 2019. Please visit the [Tri-MIP-2 website](#) for more details. The host organizing committee, including David Paynter (GFDL), Vaishali Naik (GFDL), and AOS Faculty Member V. Ramaswamy, director of GFDL, will be finalizing the workshop agenda in the coming weeks. ■

AOS & CIMES Research in Action

[This column is intended to focus on AOS & CIMES research accomplishments and milestones, past, present, and future. In this issue, we highlight the accomplishments of AOS Associate Research Scholar Jong-Yeon Park who spent nearly three years in the AOS Program.]

AOS Associate Research Scholar Jong-Yeon Park left Princeton in late February, after nearly three years in the AOS Program. Before joining AOS, Jong-Yeon earned his Ph.D. in Climate Science from Max Planck Institute for Meteorology and worked as a postdoctoral researcher at the same institute. His previous work focused on bio-climate interactions and monsoon dynamics in present and future climate. While at Princeton, Jong-Yeon worked at GFDL with John Dunne and Charles Stock

on developing marine biogeochemistry prediction system using GFDL's Earth system model.



AOS Associate Research Scholar
Jong-Yeon Park

To predict future changes in marine biogeochemical variables, reliable estimates of current biogeochemical conditions are essential. However, efforts to improve global biogeochemical estimates by physical data assimilation in coupled physical-biogeochemical models have proven difficult due to dynamical imbalances between model states and assimilated data. The extremely high sensitivity of ocean biogeochemistry to spurious vertical velocities that can arise from dynamical imbalances often leads to substantial degradation of marine biogeochemistry estimates.

Jong-Yeon developed a strategy to robustly integrate a global ocean biogeochemical model with GFDL's ensemble coupled-climate data assimilation system. This provides a basis for improved retrospective biogeochemical state estimation and global physical-biogeochemical prediction on seasonal to multi-annual timescales. This work was published in *Journal of Advances in Modeling Earth Systems* in March 2018.

Using the biogeochemical initialization data developed from his work, Jong-Yeon continued to show viability of the extension of our current physical prediction system to the marine resource context. He shows that, with optimally constrained biogeochemical initialization data, ESM-based marine biogeochemical predictions can skillfully predict satellite-derived seasonal to multi-annual chlorophyll fluctuations in many ocean regions. This new finding offers the potential utility of

biogeochemical predictions for marine resource management.

“During his time at Princeton, Jong-Yeon Park has made great strides in advancing the development and application of GFDL models for ocean biogeochemical prediction on seasonal to interannual time scales,” said John Dunne, a GFDL research oceanographer. “He has been a delight to work with, discovering several new and exciting aspects of ocean biogeochemical predictability towards better understanding of both coupled physical-biogeochemical relationships and potential for improved living resource management in line with NOAA research goals.”

Jong-Yeon accepted an assistant professor position at the Department of Earth and Environmental Sciences, Chonbuk National University, Korea. He will continue working on marine biogeochemistry prediction/predictability using GFDL's Earth system model in collaboration with GFDL scientists. ■

AOS & CIMES News

[To Limit Solar Geoengineering's Side Effects, the Right "Dose" Is Needed](#)

Global efforts to reduce greenhouse gas emissions are increasingly lagging behind the action scientists say is needed to prevent catastrophic levels of future warming. Now, new research may allay some of the fears about the side effects of solar geoengineering—or at least it could encourage more research into the subject.

A [study](#), co-authored by former AOS Postdoc **Jie He** (Georgia Tech), AOS Faculty Members **Larry Horowitz** (GFDL) and **Gabe Vecchi**, professor of Geosciences and the Princeton Environmental Institute, and published in *Nature Climate Change* this week, suggests that keeping geoengineering within certain limits should prevent unwanted consequences on factors like water availability, storms and extreme precipitation. The research relies on a scenario in which the amount of solar geoengineering deployed could offset only half—not all—of the warming that would occur if atmospheric carbon dioxide levels were to double.

[Read more](#)

[The Deep Southern Ocean is Key to More Intense Ice Ages](#)

Over the last million years, ice ages have intensified and lengthened. According to a new [study](#) co-authored by AOS Postdoctoral Research Fellow **Alex Haumann**, this previously unexplained climate transition coincides with a diminution of the mixing between deep and surface waters in the Southern Ocean. The study, published in *Science* recently, confirms that the Antarctic region plays a crucial role during periods of climate change. **Danny Sigman**, Princeton's Dusenbury Professor of Geological and Geophysical Sciences, is among the paper's co-authors.

[Read more](#)

Link to the study:

<http://science.sciencemag.org/content/363/6431/1080>

An associated perspective by Laurie Menviel:

<http://science.sciencemag.org/content/363/6431/1040>

[Sounding Out Earth's Hum](#)

Scientists, including AOS Associate Research Scholar **Salvatore Pascale**, are working to isolate and identify the various sources and mechanisms, beyond earthquakes, that vibrate the solid earth. The search has led them offshore to investigate how wind and waves, and the seafloor interact to produce a symphony of sound that humans can't hear.

[Read more](#)

[Hurricanes are Intensifying More Rapidly and it may be our Fault](#)

The percentage of tropical systems that have intensified rapidly in the Atlantic Ocean has tripled over the last three decades, according to a [study](#) published

recently in *Nature Communications*. The study was led by former AOS Postdoc **Kieran Bhatia** (BP Sunbury, Greater London), who conducted the study while at Princeton. AOS Faculty member **Gabe Vecchi**, professor of Geosciences and the Princeton Environmental Institute, **Tom Knutson** (GFDL), former AOS Associate Research Scholar **Hiroyuki Murakami** (UCAR), **Keith Dixon** (GFDL), and **Carolyn Whitlock** (Engility) are among the study's co-authors.

[Read more](#)

[Related Washington Post article](#)



The Princeton Environmental Institute (PEI) is accepting applications for the [Princeton Energy and Climate Scholars \(PECS\)](#) through **11:55 p.m. on Friday, March 29**. This two-year faculty-guided and student-governed fellowship program seeks Princeton graduate students from the humanities, natural and social sciences, and engineering to foster a common intellectual exploration within the broad area of climate and energy. Scholars participate in informal student discussions, fellow-faculty dinners and group projects; a small research stipend is provided. Interested students can [apply through the PEI website](#).

2018 PEI-STEP Fellowship

The Princeton Environmental Institute (PEI) is seeking applications for the [PEI-STEP Fellowship Program](#) from Ph.D. candidates in any discipline interested in exploring the environmental-policy dimensions of their doctoral research. **Applications will be accepted through Tuesday, April 2**. The two-year program provides half stipend and tuition support for two years and a \$3,500 research award. Fellows who complete the program are awarded a graduate certificate in Science, Technology and Environmental Policy.



The Princeton Environmental Institute (PEI) is accepting applications for the [Walbridge Fund](#)

[Graduate Award for Environmental Research](#) through **Monday, April 15**. The fund provides research funding to Princeton University graduate students in any discipline who are pursuing innovative research on climate change science, energy solutions, environmental policy or other environmental topics. Applications are available through the [Student Activities Funding Engine \(SAFE\)](#).

Alumni News

A recent paper, led by former AOS Postdoc **Jonghun Kam** (Assistant Professor, University of Alabama) and published in *the Weather, Climate and Society*, uses “Google Trends” to investigate the dynamics of social response during the 2011-2017 California drought and to quantify the decay rate of public awareness.

Key findings:

- 1) There is a gap longer than one year between the onset of the 2011-17 CA drought and the first peak of public drought awareness.
- 2) The human factor-driven peaks of drought awareness (e.g., governor's declaration and state water regulation) show a slower decay rate than the natural factor-driven peaks (e.g., the peak of drought and the occurrence of floods), which potentially leads to a longer social memory.
- 3) From the Google Trends data, interactions of public awareness of drought and other types of extreme events are observed during the drought recovery stage, particularly the abrupt transition from drought to flood in early 2017 (Oroville Dam Crisis).

<https://journals.ametsoc.org/doi/abs/10.1175/WCAS-D-18-0085.1>

UPcoming EVENTS



**GFDL 2019
Poster Expo
May 8, 2019
1-4 pm**

Smagorinsky Seminar Room



Princeton Research Day

**Save the Date for Princeton
Research Day!**

**Posters • Talks • Performances • Art
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Thursday, May 9, 2019

Frist Campus Center

**researchday.princeton.edu
#PRD19**

Arrivals

Mariona Claret, an AOS visiting associate research scholar, arrived in early February to work with John Dunne for three months. She comes to Princeton from JISAO, University of Washington.

Hussein Aluie, an assistant professor at the University of Rochester, arrived in early February for a three-month sabbatical. He is working with Steve Griffies as a visiting research scholar.

Marion Albery arrived in early February to work with Sonya Legg as a postdoctoral research associate. She comes to Princeton from Scripps Institution of Oceanography.

Departures

AOS Associate Research Scholar **Jong-Yeon Park** accepted a faculty position at Chonbuk National University in the Department of Earth and Environmental Sciences. He left the Program at the end of February.



**We want to hear from
you.**

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