

Jane W. Baldwin

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<https://janebaldw.in> 🌐

- EDUCATION**
- Princeton University**, Princeton, NJ 2012 – 2018
Ph.D. in Atmospheric and Oceanic Sciences (AOS)
Doctoral Advisor: Gabriel A. Vecchi
Dissertation title: Orographic Controls on Asian Hydroclimate, and an Examination of Heat Wave Temporal Compounding
- Harvard University**, Cambridge, MA 2007 – 2012
B.A. in Earth and Planetary Sciences
Summa Cum Laude. Cumulative GPA: 3.94.
Thesis Advisor: Peter Huybers
Thesis title: The Interactions of Precipitation and Temperature in Determining the Equilibrium of Glaciers (*awarded highest departmental honors*)
Secondary Field in East Asian Studies, Language Citation in Mandarin Chinese
- RESEARCH APPOINTMENTS**
- Assistant Professor of Earth System Science, University of California Irvine** Jul 2021 – present
- Adjunct Associate Research Scientist, Lamont-Doherty Earth Observatory, Columbia University**
Jul 2021 – present
- Postdoctoral Fellow, Lamont-Doherty Earth Observatory, Columbia University** Sep 2019 – Jun 2021
Developed an open-source tropical cyclone risk model for the Philippines, supervised by Profs. Suzana Camargo and Adam Sobel. Collaborated with the World Bank’s disaster risk team and other NGOs on model development.
- Postdoctoral Research Associate, Princeton Environmental Institute** Sep 2018 – Jul 2019
Associated with Prof. Gabriel Vecchi’s group in the Department of Geosciences and Prof. Michael Oppenheimer’s group in the Woodrow Wilson School of Public and International Affairs. Researched implications of heat wave temporal structure for human health outcomes, and controls on tropical cyclone genesis.
- Applied Scientist Intern, Descartes Labs** Jun 2018 – Sep 2018
Tech start-up spun off from Los Alamos National Labs developing innovative applications of geospatial data using machine learning. Worked to develop a wildfire early detection system based on GOES-16 weather satellite data.
- Graduate Research Assistant, Princeton Climate Dynamics Group and NOAA Geophysical Fluid Dynamics Laboratory** 2012 – 2018
Advisor: Gabriel Vecchi (Professor of Geosciences and the Princeton Environmental Institute)
Committee Members: Thomas Delworth, Isaac Held, P.C.D. Milly, Michael Oppenheimer
Research focused on running and analyzing GFDL’s atmosphere-ocean coupled general circulation models (GCMs) paired with observations to understand the physical mechanisms behind various climatic phenomena. Designed and set up experiments varying model topography, resolution, and forcing. Research topics included monsoons, atmosphere-ocean coupling, tropical cyclones, temperature extremes, and aridity.
- PEI-STEP Fellow, Princeton University, Woodrow Wilson School** 2015 – 2018
Advisor: Michael Oppenheimer (Professor of Geosciences and International Affairs)
Competitive fellowship for science graduate students to take three policy/economics classes and do a policy-related research project. Evaluated temporal structure of heat waves and their projected future change using both GCM data and idealized statistical models, and assessed implications for heat wave disaster preparedness and warning systems.
- Undergraduate Research Assistant, Harvard Climate Dynamics Group** 2010 – 2012
Advisor: Peter Huybers (Professor of Earth and Planetary Sciences)
Developed process-based analytic prototype models of mountain glaciers to elucidate the climatic controls on mountain glaciers and explain the discrepancy between Last Glacial Maximum sea-surface temperature estimates and snowlines.

PUBLICATIONS *Denotes postdoc or graduate advisee.

In Prep or Submitted 27. Sexton, J.*, W. Boos, G. Vecchi, and **J. Baldwin**. “Modifying Mountains in Models Improves Pervasive Precipitation Bias in Western North America.” In prep for *Journal of Climate*.

26. Persad, G., C. Cummins, and **J. Baldwin**. “Anthropogenic aerosol changes disproportionately impact the evolution of global heatwave hazard and exposure.” Submitted.
25. Yanites, B., M. Clark, J. Roering, A. West, D. Zekkos, **J. Baldwin**, C. Cerovski-Darriau, S. Gallen, D. Horton, E. Kirby, B. Leshchinsky, H. Mason, S. Moon, K. Barnhart, A. Booth, J. Czuba, S. McCoy, L. McGuire, A. Pfeiffer, and J. Pierce. “Cascading land surface hazards as a nexus in the Earth system.” In review at *Science*.
24. Li, Y., A. AghaKouchak, N. Andela, **J. Baldwin**, S. Davis, D. Morton, L. Ott, and J. Randerson. “Heatwaves exacerbate global wildfire risk by amplifying the frequency of fire occurrence.” In review at *Nature*.
23. Meegan-Kumar, D.*, G. Elsaesser, D. Battisti, C. Colose, J. Sexton*, and **J. Baldwin**. “Optimizing Topographic Boundary Conditions for East Pacific Climate Simulation.” In revision at *Journal of Climate*.
22. Callahan, C., **J. Baldwin**, R. Jing, M. Burke, and N. Diffenbaugh. “Large indirect economic impacts of tropical cyclones shaped by disaster response.” Submitted.
21. Hemmati, M., C. Tuholske, **J. Baldwin**, and R. Parks. “Disparities in Tropical Cyclone-Heat Event Exposure in the United States.” Submitted.
20. Gnann, S., **J. Baldwin**, M. Cuthbert, T. Gleeson, W. Schwanghart, and T. Wagener. “The influence of topography on the global terrestrial water cycle.” In revision at *Reviews of Geophysics*.
19. Matthews, T., C. Raymond, J. Foster, **J. Baldwin**, C. Ivanovich, Q. Kong, P. Kinney, and R. Horton. “Earth’s most extreme heat events and their lethality under climate warming.” Accepted at *Nature Reviews Earth & Environment*.
18. Fisher, C., E. Benami, M. Dolk, **J. Baldwin**, I. Becker-Reshef, R. Cuppari, T. Dalhaus, A. Hobbs, G. Leckebusch, P. Lacovara, A. Sobel, E. Tellman, “Bridging science and practice to en(in)sure sustainable development in a changing climate.” *Journal of Catastrophe Risk and Resilience*, February 6, 2024.
17. Vanos, J., G. Guzman-Echavarría, **J. Baldwin**, C. Bongers, K. Ebi, O. Jay. “A physiological approach for assessing human survivability and liveability to heat in a changing climate.” *Nature Communications*, November 29, 2023. doi:10.1038/s41467-023-43121-5
16. Parks, R., V. Kontis, G. Anderson, **J. Baldwin**, G. Danaei, R. Toumi, F. Dominici, M. Ezzati, and M. Kioumourtzoglou. “Short-term excess mortality following tropical cyclones in the United States.” *Science Advances*, August 16, 2023. doi:10.1126/sciadv.adg6633
15. **Baldwin, J.**, C.-Y. Lee, B. Walsh, S. Camargo, and A. Sobel. “Vulnerability in a Tropical Cyclone Risk Model: Philippines Case Study.” *Weather, Climate, and Society*, June 27, 2023. doi:10.1175/WCAS-D-22-0049.1
14. **Baldwin, J.**, T. Benmarhnia, K. Ebi, O. Jay, N. Lutsko, and J. Vanos. “Humidity’s Role in Heat-Related Health Outcomes: A Heated Debate.” *Environmental Health Perspectives*, May 31, 2023. doi:10.1289/EHP11807.
- Featured in *Science* news piece.
13. Wilson, K.*, **J. Baldwin**, and R. Young. “Estimating Tropical Cyclone Vulnerability: A Review of Different Open-Source Approaches.” in *Hurricane Risk in a Changing Climate* (eds. Collins, J. M. & Done, J. M.) 255-281 (Springer International Publishing, 2022). doi:10.1007/978-3-031-08568-0_11.
12. Dee, S., E. Nabizadeh, C. Nittrouer, **J. Baldwin**, L. Gaviria, S. Guo, K. Lu, B. Saunders-Shultz, E. Gurwitz, G. Samarth, and K. Weinberger. “Increasing Health Risks During Outdoor Sports Due To Climate Change in Texas: Projections Versus Attitudes.” *GeoHealth*, July 19, 2022. doi:10.1029/2022GH000595
11. **Baldwin, J.**, A. Atwood, G. Vecchi, and D. Battisti. “Outsize Influence of Central American Topography on Global Climate.” *AGU Advances.*, June 9, 2021. doi:10.1029/2020AV000343
- Editor’s Highlight (Top < 2% of AGU publications)
10. Ebi, K., J. Vanos, **J. Baldwin**, J. Bell, D. Hondula, N. Errett, K. Hayes, C. Reid, S. Saha, S. Spector, P. Berry. “Extreme weather and climate change: population health and health system implications.” *Annual Review of Public Health*, January 6, 2021. doi:10.1146/annurev-publhealth-012420-105026
9. Vanos, J., **J. Baldwin**, O. Jay, K. Ebi. “Simplicity lacks robustness when projecting heat-health outcomes in a changing climate.” *Nature Communications*, November 27, 2020. doi:10.1038/s41467-020-19994-1

Accepted or
Published

8. Vecchi, G., T. Delworth, H. Murakami, S. Underwood, A. Wittenberg, F. Zeng, W. Zhang, **J. Baldwin**, K. Bhatia, W. Cooke, J. He, S. Kapnick, T. Knutson, G. Villarini, K. van der Wiel, W. Anderson, V. Balaji, J. Chen, K. Dixon, R. Gudgel, L. Harris, L. Jia, N. Johnson, S. Lin, M. Liu, C. Ng, A. Rosati, J. Smith, X. Yang. “Tropical cyclone sensitivities to CO₂ doubling: roles of atmospheric resolution, synoptic variability and background climate changes.” *Climate Dynamics*, August 13, 2019. doi:10.1007/s00382-019-04913-y. p1-35.
7. Lutsko, N., **J. Baldwin**, and T. Cronin. “The Impact of Large-Scale Orography on Northern Hemisphere Winter Synoptic Temperature Variability.” *Journal of Climate*, August 13, 2019.
6. **Baldwin, J.**, J. Dessy*, G. Vecchi, and M. Oppenheimer. “Temporally Compound Heat Wave Events and Global Warming: An Emerging Hazard.” *Earth’s Future*, April 20, 2019. doi:10.1029/2018EF000989. p411-427.
5. **Baldwin, J.**, G. Vecchi, and S. Bordoni. “The Direct and Ocean-Mediated Influence of Asian Orography on Tropical Precipitation and Cyclones.” *Climate Dynamics*, January 29, 2019. doi:10.1007/s00382-019-04615-5. p1-20.
4. Liao, W., X. Liu, D. Li, M. Luo, D. Wang, S. Wang, **J. Baldwin**, L. Lin, X. Li, K. Feng, K. Hubacek, and X. Yang. “Stronger Contributions of Urbanization to Heat Wave Trends in Wet Climates. ” *Geophysical Research Letters*, October 5, 2018. doi:10.1029/2018GL079679. p1-8.
3. L. Zhao, M. Oppenheimer, Q. Zhu, **J. Baldwin**, K. Ebi, E. Bou-zeid, K. Guan., and X. Liu. “Interactions Between Urban Heat Islands and Heat Waves.” *Environmental Research Letters*, December 16, 2017. doi: 10.1088/1748-9326/aa9f73. p1-11.
2. **Baldwin, J.** and G. Vecchi. “Influence of the Tian Shan Mountains on Arid Extratropical Asia.” *Journal of Climate*, July 27, 2016. doi:10.1175/JCLI-D-15-0490.1. p5741-5762.
1. Chou, C., J. Jhaveri, **J. Baldwin**, P. Hannam, K. Keller, W. Peng, S. Rabin, A. Ravikumar, A. Trierweiler, X. Wang, and R. Socolow. “Fusion Energy vis Magnetic Confinement: An Energy Technology Distillate.” *Andlinger Center for Energy and the Environment*, Princeton University, May 13, 2016. p1-34.

GRANTS &
FELLOWSHIPS

- “paleoWeather”: a new paradigm for examining extreme events in past climates. Heising-Simons Foundation, \$607K to Baldwin Group, Nov 2023 – Oct 2028, Co-PI and Institutional PI.
- Projecting Compound Tropical Cyclone-Heat Extremes in a Changing Climate. NOAA Model Analysis, Predictions and Projections, \$598K total (\$371K to Baldwin Group), Sep 2023 – Aug 2026, PI.
- Using a weather model and geologic data to test tectonic mechanisms in an intercontinental setting: The Altai Mountains of Central Asia. NSF Tectonics, \$887K total (\$330K to Baldwin Group), Aug 2023 – Jul 2026, Co-PI and Institutional PI.
- Led NCAR Large Allocation request awarded 4.3 million core-hours on the Derecho supercomputer.*
- Characterizing Northern Hemisphere atmospheric variability from Central American wind gap-induced upwelling. NSF Paleo Perspectives on Present and Projected Climate (P4CLIMATE), \$666K total (\$72K to Baldwin Group), Jul 2023 – Jun 2026, Co-PI.
- Optimal Interpolation of Orography for Present and Future Climate Simulation. NASA New Investigator Award, \$375K total (all to Baldwin Group), Sep 2021 – Aug 2024, PI.
- Led successful NASA High-End Computing request to support GISS GCM simulations for this project.*
- The Impact of Extreme Heat on Childrens Health in Africa Project. Columbia University - President’s Global Innovation Fund, \$45K, Jun 2020 – May 2022, Co-I.
- Urban Impacts on Compound Heatwaves. NOAA Cooperative Institute for Modeling the Earth System - Task III, \$75K, Sep 2019 – Aug 2020, Co-PI.
- Lamont-Doherty Earth Observatory Postdoctoral Fellowship, \$139K, 2019 – 2022.
- National Science Foundation Graduate Research Fellowship, \$138K, 2014 – 2018.
- Princeton Environmental Institute- Science Technology Environmental Policy (PEI-STEP) Perkins Fellowship (2015 – 2018)
- ThinkSwiss Travel Grant (2013)
- To attend the 2013 NCCR climate summer school “From Climate Reconstructions to Climate Predictions” in Grindelwald, Switzerland.*
- Princeton University Centennial Fellowship (2012 – 2016)

Harvard Program for Research in Science and Engineering (PRISE) Summer Research Grant (2010)
Fung Foundation Scholarship (2009)
Grant for summer Chinese language study abroad.
National Merit Scholarship (2007)

AWARDS

NASA New Investigator Award (2021 – 2024)
For proposal “Optimal Interpolation of Orography for Present and Future Climate Simulation”.
Carbon Mitigation Initiative Best Paper Award for Postdoctoral Fellows (2020)
For Baldwin et al 2019 “Temporally Compound Heat Wave Events and Global Warming: An Emerging Hazard”.
Finalist for University of California President’s Postdoctoral Fellowship Program (2019)
Outstanding Student Presentation Award, AGU Fall Meeting (2017)
Top Student Paper Award, AMS 97th Annual Meeting, Eighth Conference on Environment and Health (2016)
Summa Cum Laude (2012)
Highest honors for both overall coursework and research within concentration (Earth and Planetary Sciences).
John Wood Prize (2012)
Awarded to top science student in Adams House (residential college) at Harvard.
Phi Beta Kappa (2011)
Elected fall of senior year; in recognition of being in top 5% of graduating class at Harvard.

TEACHING
EXPERIENCE

Assistant Professor, University of California Irvine *2021 – present*
Courses: ESS 116 Introduction to Environmental Data Science (Winter ’22, Fall ’22, Winter ’23), ESS 280C
Climate & Extreme Events Graduate Reading Course (Spring ’23).

Guest Lecturer, University of California Irvine *2021 – present*
Courses: ESS 154 Ecosystem Services (Fall ’21), ESS First Year Graduate Seminar (Fall ’21, Fall ’22, Winter ’24),
ESS 45 New Student Seminar (Fall ’22).

Guest Lecturer, Princeton University *2017 – present*
Courses: ENV 316 Climate Science and Communications (2018 – 2022), GEO 425 Introduction to Ocean Physics
for Climate (2017 – 2018), Geo 368 Climate and Weather: Order in the Chaos (2018, 2019), FRS 118 “Life on
Mars - Or Maybe Not” freshman seminar on science journalism (2017).

Outreach Presentations *2014 – present*
UCI California State Summer School for Mathematics and Science (COSMOS) (Jul 2023, Jul 2024), Princeton
University Alumni Reunions panel discussion on climate change (May 2023), UCI Celebrate Physical Sciences
Alumni Event (Sep 2022), Osher Lifelong Learning Institute (OLLI) at UCI Division of Continuing Education
(Dec 2021), AMS Board of Environment and Health Public Webinar, Princeton Plasma Physics Laboratory Young
Women’s Conference, Conference for Undergraduate Women in Physics, Princeton Public Library, Princeton radio
station WPRB “These Vibes are Too Cosmic” show, Princeton Institute for Computational Science & Engineering
Research Computing Day, Rockefeller College at Princeton University, Princeton Day School, Hopkins School.

ADVISING &
MENTORING

Postdoctoral Researchers
Dervla Meegan Kumar (UCI) (Sep 2022 – present)

Graduate Student Researchers

Samantha Frucht (PhD UCI) (Sep 2022 – present)

· NSF Graduate Research Fellow

Haley Staudmyer (PhD UCI) (Sep 2022 – present)

· AMS outstanding student presentation award (Feb 2024)

· UCI Environmental Racism and Health Equity Fellow

· UCI Climate Justice Fellow

Savannah Ferretti (PhD UCI) (2022 – present)

· Co-advised with Michael Pritchard.

· UCI DEI Graduate Leaders Fellow

Jared Sexton (PhD UCI) (2021 – present)

· UCI ESS Award for Outstanding Contributions to the Department (2022 – 2023).

Katy Wilson (masters Columbia) (2020 – 2021)

· First author of peer-reviewed book chapter on tropical cyclone vulnerability.

· Now PhD student at Yale University.

Undergraduate Student Researchers

Milena Raeber (UCI, ENSP senior thesis) (Jun 2023 – Jun 2024)

· Co-advised with Dervla Meegan Kumar.

· Now PhD student at Boston University.

Elena Skye Bock (UCI, ENSP senior thesis) (Sep 2022 – Jun 2023)

Karina Jhaj (UCI) (Sep 2022 – Dec 2022)

Sophia Lacambra (Barnard) senior thesis (2020 – 2021)

· Co-advised w/ Robbie M. Parks.

Samuel Bartusek (Princeton) fall and spring junior papers (2018 – 2019)

· Co-advised w/ Gabriel Vecchi.

· Now PhD student at Columbia University.

James Tralie (Princeton) fall and spring junior papers (2017 – 2018)

· Co-advised w/ Gabriel Vecchi.

· Presented related poster at AGU fall meeting 2018.

Casey Ivanovich (Princeton), summer research intern (2017)

· Co-advised w/ Gabriel Vecchi and Àngel Muñoz.

· Now PhD student at Columbia University.

Jay Dessy (Princeton) senior thesis (2016 – 2017)

· Co-advised w/ Michael Oppenheimer.

· Co-author on related publication in journal *Earth's Future*.

PhD Advancement Committees

Laney Wicker (UCSD Scripps Institution of Oceanography) (Oct 2024)

Julian Arnheim (UCI ESS) (Jul 2024)

Margarita Rivera (UCI CEE) (Mar 2024)

Polina Khapikova (CalTech Environmental Science and Engineering) (May 2023)

Shu Li (UCI CEE) (Nov 2022)

Jerry Lin (UCI ESS) (Aug 2022)

Yu Zhao (UCI ESS) (Jul 2022)

Marc Kawada (UCI CHEM) (May 2022)

Shayma Ali Alali (UCI ESS) (Dec 2021)

Mukesh Kumar (UCI CEE) (Dec 2021)

Resident Graduate Student, Rockefeller College

2013 – 2018

Served as mentor to Princeton undergraduates, and assisted with academic programming for the community. Organized weeklong senior thesis boot camps, providing undergraduates with a focused environment and guidance to succeed in their independent research. Organized dinner discussion series for undergraduates studying science, aimed particularly at supporting young women in science.

Co-Founder, Princeton Day School Energy and Climate Scholars

2015 – 2016

Outreach program to local high school where Princeton graduate students present monthly to motivated high school students on key issues related to energy, climate, and sustainability, followed by dinner and discussion.

SYNERGISTIC
ACTIVITIES

Journal Refereeing (alphabetical order): *Chinese Science Bulletin, Climatic Change, Climate Dynamics, Communications Earth & Environment, Environmental Research Letters, GeoHealth, Geophysical Research Letters, Global and Planetary Change, Journal of Applied Meteorology and Climatology, Journal of Climate, Natural Hazards, Nature, Nature Communications, Proceedings of the National Academy of Sciences, Quarterly Journal of the Royal Meteorological Society, Weather and Climate Extremes, Weather, Climate, and Society.*

Proposal Refereeing: DOE Atmospheric System Research (panel, 2022); DOE Regional & Global Model Analysis/ Multi-Sector Dynamics Modeling (panel, 2022); NSF Climate and Large-Scale Dynamics (ad hoc, 2022); NSF Climate Change Impacts on Human Health (C2H2) (ad hoc, 2024); NASA Land-Cover/Land-Use Change Program (panel, 2024).

Dissertation Refereeing: University of New South Wales (2022).

Academic Associations: American Geophysical Union (AGU), American Meteorological Society (AMS), International Society of Biometeorology.

Program Chair, AMS Conference on Environment and Health 2023 – 2025
Lead for 2025 and vice chair for 2024 of this conference within the AMS Annual Meeting. Organize and provide direction of scientific program, including sessions, panels, keynote talks, and abstract evaluation.

Co-Lead, NOAA CMIP Task Force Sep 2023 –
One of four co-leads for task force associated with NOAA MAPP grants funded under FY2023 call “Climate Futures: Projections for Societally-Relevant Problems”. Coordinating collaborative activities among PIs and advising on development of NOAA projection services capability.

Elected Member, AMS Board on Environment and Health 2021 –
Elected to help direct the Board’s portion of the AMS Annual Meeting and related outreach.

Adviser on Tropical Cyclone Risk Assessment, Various NGOs 2019 –
Serving as adviser and collaborator on tropical cyclone risk projects that support the public good. Current collaborations include supporting a Red Cross catastrophe bond for mangrove restoration in the Philippines following storms, World Bank disaster assessment efforts, and creating a dataset of projected tropical cyclone windfield changes for the Oasis open-source loss modeling framework.

Member, UNCDF Climate Insurance Linked Infrastructure Finance 2020 –
Cross-industry working group brought together to collaborate on a comprehensive climate insurance product for stakeholders in developing countries.

Steering Committee Member, NSF Center for Land Surface Hazards (CLaSH) 2022 –
Advising on incorporation of climate hazards for center proposal. Activities include: shaping scientific direction via proposal and gap analysis writing, organizing session for modeling expo, reviewing applicants for summer school.

Member, US CLIVAR Working Group on Climate & Health Aug 2023 –
Advising on establishment of community of practice spanning the fields of health and climate sciences.

Committee Member, AGU William Bowie Medal Apr 2024 –
Selecting awardee of AGU’s highest honor given annually in recognition of outstanding contributions to fundamental Earth and space science and for unselfish cooperation in research.

Program Committee, Symposium for Hurricane Risk in a Changing Climate Jun 2024 –
Creating session agenda, and soliciting and selecting abstracts for annual hurricane risk conference.

Co-convenor, AGU Fall Meeting sessions

Session titles and years: “Climate Drivers of Infectious Disease: Past, Present, and Future” (2017), “Mountains, Weather, and Climate: Advances from Observations, Theories, and Models” (2019), “Exploring the ‘Hidden Burden’ of Climate Change and Pollution on Mental Health and Conflict” (2020), “Bridging the Gap from Climate to Extreme Weather: Observations, Theory, and Modeling” (2022), “Compounding Hazards and Cascading Impacts: Spurring Multidisciplinary Exchanges on Critical Risks” (2022), “Mental Health and Conflict Consequences of Extreme Weather and Climate Events: Identifying Pathways, Challenges, and Interventions” (2022).

Co-convenor, AMS Annual Meeting sessions

Session titles and years: “Interventions for Urban-Scale Heat Risk Reduction and Long-Term Mitigation” (2019), “Too Hot Too Handle: Multidisciplinary Perspectives on Extreme Heat as Disaster” (2019), “On the Shoulders of Giants: Formative Moments for Environment and Health Research” (2020), “Health Security and Energy Security: Critical Environmental Health Challenges on Mental Health, Energy Security, and Risk Assessment” (Presidential Session, 2022), “Improving Projections of Health Outcomes with Climate Change” (2022), “Climate Change, Extreme Weather, and Public Health” (Presidential Session, 2024), “Predictions and Projections of Health Impacts in a Changing Climate” (2024).

Student Member, AMS Board on Environment and Health

2017 – 2019

Help organize and direct the Board’s portion of the AMS Annual Meeting.

Member, Climate-Disease Research Group at Princeton University

2018 – 2019

Active participant in group meetings seeking to apply climate science to prediction of disease dynamics between Profs. Jess Metcalf, Bryan Grenfell, and Gabriel Vecchi’s groups.

Scientist representative, Climate Science Day on Capitol Hill

Mar 2017

Selected to represent AGU for Congressional Visit Day. Discussed the importance of climate science and developed relationships with New Jersey congressional offices.

Selected member, Princeton Energy and Climate Scholars

2014 – 2016

Forum for interdisciplinary projects, seminars, and discussions. Co-authored report with Professor Robert Socolow regarding the present state of development and prospects for fusion energy.

Co-organizer, Inaugural AOS Program Workshop

2013

3-day long workshop with invited scientists, entitled “Using Diverse Observations in Climate Modeling Research” funded by Isaac Held’s BBVA Frontiers of Knowledge Award.

Organizer, Princeton AOS journal club

2017

Weekly reading group for climate dynamics attended by faculty, postdocs, and students.

Co-organizer, Statistical methods for atmospheric sciences tutorial group

2014 – 2015

Organizer, Graduate student reading group on arid climates

2013 – 2014

Board member, Harvard Environmental Action Committee

2009 – 2012

UNIVERSITY
SERVICE**UCI Earth System Science Departmental Committee Appointments**

Inclusive Excellence (2022 – 2023), Black Thriving Initiative Faculty Search (2022 – 2023), Graduate Admissions (2021 – 2022), Undergraduate Curriculum (2021 – 2023), Reeburgh Lecture (co-chair, 2022 – 2023), Chair Selection (2024)

UCI University-wide Service

Inclusive Excellence Cluster Coordinating Committee (2022 – 2023).

UCI Environmental and Climate Change Literacy Projects (ECCLPs) Task Force

2023 –

Develop and implement regional solutions that support local PK-12 school districts and communities in environmental and climate change education. Specific activities include: lead developer of educational activity on heat waves and human health employed at the Magnolia Agriscience Community Center in Spring 2023.

Career Advising for UCI Graduates

2021 –

Co-organized two panels on non-academic career opportunities for earth science PhDs (Jan 2022, Feb 2022); “Demystifying the Postdoc” panelist (Dec 2021)

Princeton University Residential College Task Force

2014 – 2016

Member of university-wide team appointed by Princeton University President Eisgruber to develop long-term vision for Princeton’s residential colleges.

PROFESSIONAL
DEVELOP-
MENT**Faculty Success Program**

2022

Intensive 10-week program focused on productivity and work-life balance run by the National Center for Faculty Development and Diversity.

UCI Active Learning Institute

Winter 2023

Series of 8 sessions supporting faculty integrating active learning strategies into their courses.

PRESENTATIONS & SEMINARS **Denotes student advisee. Note: student/postdoc-led presentations since 2022 are not tracked as group has grown.*

Baldwin, J., Jul 2024: “Projecting the Health Impacts of Heat in a Changing Climate.” Extreme Heat Workshop, Columbia University, New York, NY. *INVITED ORAL*.

Baldwin, J., C. Lee, B. Walsh, S. Camargo, and A. Sobel, Jun 2024: “Applying an Open-Source Tropical Cyclone Risk Model for the Public Good.” Symposium on Hurricane Risk in a Changing Climate, Honolulu, HI. *ORAL*.

Baldwin, J., May 2024: “The Missing Links in Projecting Impacts from Extreme Events.” CASPO Seminar, Scripps Institute of Oceanography, San Diego, CA. *INVITED SEMINAR*.

Baldwin, J., C. Lee, B. Walsh, S. Camargo, and A. Sobel, May 2024: “Applying an Open-Source Tropical Cyclone Risk Model for the Public Good.” American Meteorological Society 36th Conference on Hurricanes and Tropical Meteorology, Long Beach, CA. *ORAL*.

Baldwin, J., Apr 2024: “It’s Getting Hot in Here: Heat, Health, and Humidity in a Changing Climate.” Dean’s Climate and Energy Lecture, University of California Irvine School of Physical Sciences, Irvine, CA. *INVITED SEMINAR*.

Baldwin, J., T. Benmarhnia, K. Ebi, O. Jay, N. Lutsko, and J. Vanos, Apr 2024: “Humidity’s Role in Heat-Related Health Outcomes: A Heated Debate.” AGU/AMS GeoHealth Showcase, Virtual. *INVITED LIGHTNING TALK*.

Baldwin, J., T. Benmarhnia, K. Ebi, O. Jay, N. Lutsko, and J. Vanos, Jan 2024: “Humidity’s Role in Heat-Related Health Outcomes: A Heated Debate.” American Meteorological Society 104th Annual Meeting, 15^Conference on Environment and Health, Baltimore, MD. *ORAL*.

Baldwin, J., May 2023: “The Role of Mountains in Pervasive Climate Model Biases.” Department of Atmospheric and Oceanic Sciences Seminar, University of California Los Angeles, CA. *INVITED SEMINAR*.

Baldwin, J., May 2023: “Climate Modeling Overview.” Center for Land Surface Hazards Modeling Expo, Virtual. *ORAL*.

Baldwin, J., Apr 2023: “The Missing Links in Projecting Impacts from Extreme Events.” Department of Earth and Environmental Sciences Seminar, University of Illinois Chicago, IL. *INVITED SEMINAR*.

Baldwin, J., Apr 2023: “The Role of Mountains in Pervasive Climate Model Biases.” Department of Earth, Environmental and Planetary Sciences Colloquium, Brown University, Providence, RI. *INVITED SEMINAR*.

Baldwin, J., Mar 2023: “Projecting Heat Waves and their Health Risks in a Changing Climate.” AGU/AMS GeoHealth Showcase, Virtual. *INVITED KEYNOTE SEMINAR*.

Baldwin, J., C. Lee, S. Camargo, A. Sobel, B. Walsh, M. Hemmati, C. Edmonds, A. Bornstein, B. Hayes, and D. Whitaker, Dec 2022: “Applying an Open-Source Tropical Cyclone Risk Model for the Public Good.” American Geophysical Union Fall Meeting, Chicago, IL. *ORAL*.

Baldwin, J., Dec 2022: “The Missing Links in Projecting Impacts from Extreme Events.” MIT Program in Atmospheres, Oceans, and Climate Sack Lunch Seminar. *INVITED SEMINAR*.

Baldwin, J., Nov 2022: “Projecting Heat Waves and their Health Risks in a Changing Climate.” UCI Center for Occupational and Environmental Health, Irvine, CA. *INVITED SEMINAR*.

Baldwin, J., J. Bell, K. Ebi, S. Saha, and C. Sorensen, Oct 2022: “Climate Health: Extreme Events and Compounding Disasters.” Keystone Symposium, Virtual. *INVITED PANELIST*.

Baldwin, J., Oct 2022: “The Missing Links in Projecting Impacts from Extreme Events.” Institute for Mathematical and Statistical Innovation, Chicago, IL. *INVITED SEMINAR*.

Sexton, J.*, **J. Baldwin**, W. Boos, and G. Vecchi, Aug 2022: “How Mountains Impact Precipitation Prediction in the Western U.S.” CalGFD Workshop, Pasadena, CA. *ORAL*.

Baldwin, J., Jul 2022: “Projecting Extreme Events Impacts with Climate Change: An Update from the Trenches” NOAA Climate & Global Change Summer Institute, Steamboat Springs, CO. *INVITED ORAL*.

Baldwin, J., C. Lee, B. Walsh, S. Camargo, and A. Sobel, Jun 2022: “A tropical cyclone asset and wellbeing loss model for the Philippines.” Symposium on Hurricane Risk in a Changing Climate, Key Largo, FL. *POSTER*.

Baldwin, J., A. Atwood, G. Vecchi, and D. Battisti, Jun 2022: “Alternative Assumptions about Topographic Height Improve Coupled Global Climate Model Simulation Fidelity.” 4th Workshop on Physics-Dynamics Coupling in Weather & Climate Models, Princeton, NJ. *ORAL*.

Baldwin, J., Apr 2022: “The Changing Climate System,” UCI Climate Alliance Conference “Reimagining UCI in a Climate-Changed World”, Irvine, CA. *PANELIST*.

Baldwin, J., Mar 2022: “Outsize Influence of Central American Orography on Global Climate.” Colorado State University, Department of Atmospheric Sciences Colloquium. *INVITED SEMINAR*.

K. Wilson* and **J. Baldwin**, Jan 2022: “Estimating Tropical Cyclone Vulnerability: A Review of Different Open-Source Approaches”, *American Meteorological Society 102nd Annual Meeting, 13th Conference on Environment and Health*, Virtual. *POSTER*.

Baldwin, J., C. Lee, B. Walsh, S. Camargo, and A. Sobel Jan 2022: “A Tropical Cyclone Risk Model for the Philippines: Development and Applications”, *American Meteorological Society 102nd Annual Meeting, Presidential Session*, Virtual. *ORAL*.

Baldwin, J., Dec 2021: “Outsize Influence of Central American Orography on Global Climate.” *American Geophysical Union Fall Meeting*, New Orleans, LA. *INVITED ORAL*.

Baldwin, J., Dec 2021: “Do the Central American Topographic Gaps Enhance East Pacific Tropical Cyclogenesis?: Examination with an Atmosphere-Ocean Coupled Climate Model.” *American Geophysical Union Fall Meeting*, New Orleans, LA. *INVITED ORAL*.

Baldwin, J., Nov 2021: “Outsize Influence of Central American Orography on Global Climate.” University of Southern California, Department of Earth Sciences Colloquium. *INVITED SEMINAR*.

Baldwin, J., M. Chamberlain, T. Larsen, and W. Skinner, Jun 2021: “A model is a model is a model...or is it?.” National Flood Conference, Virtual. *INVITED PANELIST*.

Baldwin, J., Jun 2021: “Assessing Tropical Cyclone Wind-Related Risks to the Philippines.” UC Santa Barbara, Climate Seminar. *INVITED SEMINAR*.

Baldwin, J., May 2021: “Outsize Influence of Central American Orography on Global Climate.” National Autonomous University of Mexico (UNAM), Atmospheric Sciences to Stay at Home Seminar. *INVITED SEMINAR*.

Baldwin, J., Apr 2021: “Assessing Tropical Cyclone Wind-Related Risks to the Philippines.” Princeton University, Climate Seminar. *INVITED SEMINAR*.

Baldwin, J., Feb 2021: “Outsize Influence of Central American Orography on Global Climate.” UT Austin, Water, Climate, and Environment Seminar. *INVITED SEMINAR*.

Baldwin, J., Jan 2021: “Understanding Tropical Cyclone Risk: From Mountain Drivers to Economic Impacts.” CalTech, Environmental Science and Engineering Seminar. *INVITED SEMINAR*.

Baldwin, J., S. Camargo, A. Sobel, C.Y. Lee, B. Walsh, and S. Hallegatte, Dec 2020: “Assessment of Tropical Cyclone Wind-Related Risks to Wellbeing in the Philippines.” *American Geophysical Union Fall Meeting*, San Francisco, CA. *ORAL*.

Baldwin, J. Oct 2020: “Understanding Tropical Cyclone Risk: From Mountain Drivers to Economic Impacts.” Florida State University, Meteorology Seminar. *INVITED SEMINAR*.

Baldwin, J. Aug 2020: “Outsize Influence of Central American Topography on Global Climate.” *Stanford University, Atmosphere, Ocean, and Climate Dynamics Seminar Series*. *INVITED SEMINAR*.

Baldwin, J., K. Ebi, G. Eosco, et al. May 2020: Webinar on Environmental Extreme Events and COVID-19 in 2020. *National Academies*. *INVITED PANELIST*.

Baldwin, J. Apr 2020: “Temporally Compound Heat Wave Events and Global Warming: An Emerging Risk.” *International Research Institute for Climate and Society*. *INVITED SEMINAR*.

Baldwin, J., Mar 2020: “Understanding Tropical Cyclone Risk: From Mountain Drivers to Economic Impacts.” University of California, Irvine, Department of Earth System Science. *INVITED SEMINAR*.

Baldwin, J., Mar 2020: “What Role Do Mountains Play in Shaping Mean and Extreme Hydroclimate? Lessons from a Tropical Cyclone-Permitting Climate Model.” Purdue University, Department of Earth, Atmospheric, and Planetary Sciences. *INVITED SEMINAR*.

- Baldwin, J.**, Mar 2020: “Understanding Tropical Cyclone Risk: From Mountain Drivers to Economic Impacts.” University of Quebec in Montreal Department of Earth and Atmospheric Sciences Research Seminar, Montreal, Canada. *INVITED SEMINAR*.
- Baldwin, J.**, Feb 2020: “Understanding Tropical Cyclone Risk: From Mountain Drivers to Economic Impacts.” University of Washington Department of Atmospheric Sciences Colloquium, Seattle, WA. *INVITED SEMINAR*.
- Baldwin, J.**, Feb 2020: “What Role Do Mountains Play in Shaping Mean and Extreme Hydroclimate? Lessons from a Tropical Cyclone-Permitting AOGCM.” Stony Brook University Topics in Atmospheric and Oceanic Sciences Seminar, Stony Brook, NY. *INVITED SEMINAR*.
- Baldwin, J.**, G. Vecchi, and S. Bordoni, Jan 2019: “The Direct and Ocean-Mediated Influence of Asian Orography on Tropical Precipitation and Cyclones.” *AGU Chapman Conference on Evolution of the Monsoon, Biosphere and Mountain Building in Cenozoic Asia*, Washington, D.C. *ORAL*.
- Baldwin, J.**, G. Vecchi, A. Atwood, and D. Battisti, Dec 2019: “Alternative Assumptions about Topographic Height Improve Global Climate Model Simulation Fidelity.” *American Geophysical Union Fall Meeting*, San Francisco, CA. *POSTER*.
- Bartusek, S.*, G. Vecchi, and **J. Baldwin**, Dec 2019: “The Decadal Behavior of Westerly Wind Events through a Moist Static Energy Framework.” *American Geophysical Union Fall Meeting*, San Francisco, CA. *POSTER*.
- Baldwin, J.**, Dec 2019: MIT Oceanography and Climate Sack Lunch Seminar, Boston, MA. *INVITED SEMINAR*.
- Baldwin, J.**, Nov 2019: “Temporally Compound Heat Wave Events and Global Warming: An Emerging Risk.” *NOAA CPO Earth System Science and Modeling community workshop: Climate Research to Enhance Resilience to Extreme Heat*, Silver Spring, MD. *ORAL*.
- Baldwin, J.**, Oct 2019: McGill Atmospheric and Oceanic Sciences Departmental Seminar, Montreal, Canada. *INVITED SEMINAR*.
- Baldwin, J.** with S. Dee, L. Goddard, B. Strauss, and G. Vecchi, Oct 2019: Panel titled “It’s Getting Hot Out There...Weird Weather and Other Climate Change Anomalies”. *Princeton Environmental Forum*, Princeton, NJ. *INVITED PANELIST*.
- Baldwin, J.**, Oct 2019: Lamont-Doherty Earth Observatory Division of Ocean and Climate Physics Seminar. *INVITED SEMINAR*.
- Baldwin, J.** with K. Ebi, H. Jones, and J. Vanos, Jul 2019: Extreme Heat: Understanding and Reducing Human Health Risks. *AMS Webinar Series*. *INVITED ORAL*.
- Baldwin, J.**, J. Tralie*, G. Vecchi, Jun 2019: Does the Tehuantepec Gap Increase Tropical Pacific Cyclogenesis? Examination with an Atmosphere-Ocean Coupled Global Climate Model. *Northeast Tropical Meteorology Workshop*, Dedham, MA. *ORAL*.
- Baldwin, J.**, R. Young, M. Oppenheimer, G. Vecchi, May 2019: The Impact of Temporally Compound Heat Wave Events on Mortality. *Workshop on Correlated Extreme Events*, New York, NY. *ORAL*.
- Baldwin, J.**, J. Tralie*, G. Vecchi, Mar 2019: Does the Tehuantepec Gap Increase Tropical Pacific Cyclogenesis? Examination with an Atmosphere-Ocean Coupled Global Climate Model. *Advanced Climate Dynamics Course 10-Year Conference*, Rondane, Norway. *ORAL*.
- Baldwin, J.**, R. Young, M. Oppenheimer, G. Vecchi, Mar 2019: The Impact of Temporally Compound Heat Wave Events on Mortality. *Science for Decision-Making in a Warmer World: 10 Years of the NPCC*, New York, NY. *POSTER*.
- Baldwin, J.**, C. Beneke, R. Keisler, H. Zhou, C. Kontgis, and K. A. Mckinnon, Jan 2019: Automated Early Detection of Wildfires Using GOES-16 Satellite Imagery. *American Meteorological Society 99th Annual Meeting, Ninth Symposium on Lidar Atmospheric Applications*, Phoenix, AZ. *POSTER*.
- J. Tralie*, G. Vecchi, **Baldwin, J.**, Dec 2018: Tehuantepec Gap Induced Cyclogenesis Examined with a High Resolution Global Climate Model. *American Geophysical Union Fall Meeting*, Washington, D.C. *POSTER*.
- Baldwin, J.**, G. Vecchi, and S. Bordoni, Jul 2018: The Ocean-Mediated Influence of Asian Orography on Tropical Precipitation and Cyclones. *WCRP Grand Challenge on Clouds, Circulation and Climate Sensitivity: 2nd Meeting on Monsoons and Tropical Rain Belts*, Trieste, Italy. *ORAL*.

Baldwin, J. and G. Vecchi, May 2018: Climate Models for Historical Applications: A General Introduction. *Climate, Archaeology and History in the Eurasian Middle Ages*, Institute for Advanced Study, Princeton, NJ. *INVITED ORAL*.

Baldwin, J., Feb 2018: Temporal Compounding of Heat Waves in the Present and Projected Future. *Conversations about Environment, Responsible Energy and Life (CEREAL)*, Princeton University, Princeton, NJ. *INVITED ORAL*.

Baldwin, J., G. Vecchi, and S. Bordoni, Jan 2018: The Ocean-Mediated Influence of Asian Orography on Tropical Precipitation and Cyclones. *American Meteorological Society 98th Annual Meeting, Peter J. Webster Symposium*, Austin, TX. *POSTER*.

Baldwin, J., J. Dessy*, G. Vecchi, and M. Oppenheimer, Dec 2017: Temporal Compounding of Heat Waves in the Present and Projected Future. *American Geophysical Union Fall Meeting*, New Orleans, LA. *ORAL*.

Baldwin, J., J. Dessy*, G. Vecchi, and M. Oppenheimer, Sep 2017: Heat Wave Temporal Structure, and its Implications for Heat Stress Vulnerability with Global Warming. *21st International Congress of Biometeorology*, Durham, U.K. *ORAL*.

Baldwin, J., G. Vecchi, and S. Bordoni, Jun 2017: The Ocean-Mediated Influence of Asian Orography on Tropical Precipitation and Cyclones. *8th Northeast Tropical Meteorology Workshop*, Rensselaerville, NY. *ORAL*.

Baldwin, J., G. Garner, J. Dessy*, G. Vecchi, and M. Oppenheimer, May 2017: Assessing Heat Wave Temporal Structure and its Projected Change with Global Warming. *Princeton Environmental Institute Discovery Day*, Princeton University. *POSTER*.

Baldwin, J., G. Garner, J. Dessy*, G. Vecchi, and M. Oppenheimer, May 2017: Assessing Heat Wave Temporal Structure and its Projected Change with Global Warming. *ExxonMobil Longer Range Research Meeting*, Princeton University. *POSTER*.

Baldwin, J., G. Garner, J. Dessy*, G. Vecchi, and M. Oppenheimer, Apr 2017: Quantifying the Risk of Compound Heat Wave Events. *STEP-PEI PhD Seminar*, Princeton University. *ORAL*.

Baldwin, J., J. Dessy*, M. Oppenheimer, and G. Vecchi, Jan 2017: Quantifying the Risk of Compound Heat Wave Events. *American Meteorological Society 97th Annual Meeting, Eighth Conference on Environment and Health*, Seattle, WA. *ORAL*.

Baldwin, J. and G. Vecchi, Dec 2016: The Tibetan Plateau's Impact on Tropical Cyclones and Implications for the Asian Monsoons. *American Geophysical Union Fall Meeting*, San Francisco, CA. *ORAL*.

Baldwin, J. and G. Vecchi, Oct 2016: Crushing Mountains in Global Climate Models. *Princeton Institute for Computational Science & Engineering Research Computing Day*, Princeton University. *ORAL*.

Baldwin, J. and G. Vecchi, Jul 2016: Influence of the Tian Shan Mountains on Arid Extropical Asia. *Asia-Oceania Geosciences Society Meeting*, Beijing, China. *ORAL*.

Baldwin, J., Jul 2016. *AOS Program Student Seminar*, Princeton University. *ORAL*.

Baldwin, J., C. Chou, J. Jhaveri, W. Peng, and R. Socolow, May 2016: Discussion on the Fusion Energy Distillate. *Andlinger Center for Energy and the Environment Opening Symposium*, Princeton University. *INVITED PANEL*.

Baldwin, J., Nov 2015. *Princeton Energy and Climate Scholars Seminar*, Princeton University. *ORAL*.

Baldwin, J. and G. Vecchi, Dec 2014: The Influence of the Tianshan Mountains on Arid Central Asia. *American Geophysical Union Fall Meeting*, San Francisco, CA. *POSTER*.

Baldwin, J. and P. Huybers, Oct 2013: Tropical Mountain Glacier Change Since the Last Glacial Maximum. *Graduate Climate Conference*, Woods Hole, MA. *POSTER*.

Baldwin, J. and P. Huybers, Sep 2013: Interactions Between Precipitation and Temperature in Determining the Equilibrium of Glaciers. *NCCR Climate Summer School*, Grindelwald, Switzerland. *POSTER*.

MEDIA APPEARANCES “How might climate change harm human health? U.S. studies face funding challenges” – *Science* (Aug 2024)

“Does humidity make heat more deadly? Scientists are divided” – *Science* (Jul 2024)

“Heat is testing the limits of human survivability. Heres how it kills” – *CNN* (Jul 2024)

“How sticky is it outside?” – *Eos* (Jul 2024)

“Visualized: the parts of the US where summer heat has risen the most” – *The Guardian* (Jun 2024)

“Spring came early: February likely warmest on record amid climate change” – *Reuters* (Feb 2024)

“Deadly humid heat could hit billions, spread as far as US Midwest, study says” – *Reuters* (Oct 2023)

“Will sweat help us survive climate change?” – *Grist* (Sep 2023)

“What put Hurricane Hilary on a collision course with California?” – *Los Angeles Times* (Aug 2023)

“This strange hurricane season may take a turn for the worse” – *Vox* (Aug 2023)

“How heat waves form, and how climate change makes them worse” – *Vox* (Jul 2023)

“The world needs a new way to talk about heat” – *The Washington Post* (Jul 2023)

“Heat waves in U.S., Europe ‘virtually impossible’ without climate change, study finds” – *The Washington Post* (Jul 2023)

“Scientists raise their own temperatures with debate over effects of humidity” – *Jefferson Public Radio* (radio interview) (Jun 2023)

“Heat Wave and Blackout Would Send Half of Phoenix to E.R., Study Says” – *The New York Times* (May 2023)

“Jane Baldwin on Modeling Climate Change Hazards” – *Carry the Two* (podcast interview) (May 2023)

“Solving for climate: Do go chasing hurricanes” – *AGU’s Third Pod from the Sun* (podcast interview) (May 2023)

“China Extreme Heatwave” – *CNA* (Singapore’s public news television station) (Aug 2022)

“Climate change-fuelled heat waves forecast a new global weather reality” – *The Globe and Mail* (Jul 2022)

“India Isn’t Ready for a Deadly Combination of Heat and Humidity” – *Wired* (Jun 2022)

“Episode 5: Jane Baldwin” – *Deep Convection* (podcast interview by Adam Sobel) (Jun 2022)

“More Heat Waves Coming, Scientists Say. But The Health Impacts Are Largely Preventable” – *KQED California Public Radio* (Jul 2021)

“July Warming & Extremes” – *Climate Central* (Jun 2021)

Featured as one of two recommended “National Experts” for reporters to contact on this topic.

“Scientists warn of climate change intensifying heat waves” – *The Hill* (Jun 2021)

“Summer Forecast: Dangerous Heat, Fire, and an Active Hurricane Season” – *Columbia Climate School News* (Jun 2021)

“Why This Drought Scientist Has Packed Her Runaway Bag” – *The Daily Beast* (Jun 2021)

“How a heat dome is pushing extreme temperatures to new heights in the West” – *Washington Post* (Jun 2021)

“Tropical storms can sometimes supercharge the storms that follow” – *National Geographic* (Oct 2020)

“The 10 new Physical Sciences faculty” – *UCI Physical Sciences Communications* (Aug 2020)

“A Rude Awakening” [discussing heat wave risk]– *KPFA 94.1* (Jun 2020)

“Summer’s heat waves could get more dangerous in the coming decades, study warns” – *CNN* (Feb 2020)

“Climate and change: As temperatures rise, expect public health problems to soar” – *Montgomery Advertiser* (Sep 2019)

Interview with PBS’s *Peril and Promise* on heat wave risks and emergency management (Jul 2019)

“Repetitive Heat Waves” – interview with *Radio Ecoshock* (Jun 2019)

“More Back-to-Back Heat Waves Will Come With Climate Change” – *HealthDay* (May 2019)

“Get ready for more back-to-back heat waves, study says” – *Grist* (May 2019)

“Heatwave Warning: Soaring temperatures and extremely hot weather to rise in frequency” – *Express* (May 2019)

“Global warming to raise frequency of heat waves: Study” – *DownToEarth* (May 2019)

“Occurrence of back-to-back heat waves likely to accelerate with climate change” – UN Office of Disaster Risk Reduction *PreventionWeb* via Princeton University press release (May 2019)

“A Precarious Puzzle of Expanding Deserts: How arid Asia has varied over time and the confusion over recent desertification” – authored blog post on *Highwire Earth* (Feb 2016)

FIELD EXPERIENCE The Organization of Tropical East Pacific Convection (OTREC) experiment, Sep 2019, Costa Rica. Tasks: Prepared and launched radiosondes, presented weather briefings, flew in two research flights.

SELECT WORKSHOPS ATTENDED “Leveraging Earth System Science and Modeling to Inform Civil Engineering Design”, 2022, *Joint workshop between NOAA and the American Society of Civil Engineering (ASCE)*, Virtual.
• Link to resulting Technical Memorandum.

“Evolution of the Monsoon, Biosphere and Mountain Building in Cenozoic Asia”, Jan 2020, *AGU Chapman Conference*, Washington, D.C.

“NOAA CPO Earth System Science and Modeling community workshop: Climate Research to Enhance Resilience to Extreme Heat”, Nov 2019, Silver Spring, MD.

“Usable Climate Science and the Uses of History”, Nov 2019, Yale University, New Haven, CT.

“Workshop on Correlated Extreme Events”, May 2019, Columbia University, New York, NY.

“Destiny Studies for a Small Planet: A Symposium for Robert Socolow”, Apr 2019, Princeton, NJ.

“Science for Decision-Making in a Warmer World: 10 Years of the New York Panel on Climate Change”, Mar 2019, New York, NY.

“Understanding and Modeling the Earth’s Climate: A symposium in honor of Isaac Held”, Oct 2018, Princeton University, Princeton, NJ.

“Climate, Archaeology and History in the Eurasian Middle Ages”, May 2018, Institute for Advanced Study, Princeton, NJ.

“The Dynamics of the Seasonal Cycle”, Sep 2017, *Advanced Climate Dynamics Course*, Rondvassbu, Norway.

“Land-atmosphere interactions: coupling between the energy, water and carbon cycles”, Jun 2015, *XXIII Alpine Summer School*, Valsavarenche, Italy.

“Evolution of the Asian Monsoon and its Impact on Landscape, Environment and Society: Using the Past as the Key to the Future”, Jun 2015, *AGU Chapman Conference*, Chinese University of Hong Kong.

“From Climate Reconstructions to Climate Predictions”, Sep 2013, *12th International NCCR Climate Summer School*, Grindelwald, Switzerland.

“Five Controversies in Climate Science: A symposium celebrating the contributions of S. George Philander”, Sep 2012, Princeton University, Princeton, NJ.

OTHER WORK EXPERIENCE **Fashion Model**, International 2010 – 2011
Contracts in Athens, Milan, Tokyo, and New York doing editorial photo shoots, runway, and TV commercials.

SKILLS AND LANGUAGES **Computers:** Python (experienced esp. with numpy, matplotlib, xarray, cartopy, basemap, cdo, netCDF4, shapely), Matlab (experienced), Ferret (experienced), R (proficient), Fortran (beginner); \LaTeX ; Unix, Windows, and Mac operating systems; Microsoft Word, Powerpoint, and Excel.

Mandarin Chinese: Proficient reading, writing, and speaking. 7 years of study, including abroad in Beijing and Inner Mongolia.

Dance: Extensive training in ballet and modern dance. Performed with and directed the Harvard-Radcliffe Modern Dance Company and performed with the Harvard Ballet Company.

Winter Sports: Grew up training as a freestyle skier and taught ski school for a winter in Stratton Mountain, Vermont.