Daniel L. Swain, Ph.D.

<i>Climate Scientist, California Institute for Water Resources</i> University of California Agriculture and Natural Resources	Office Phone: (303) 497-1117 Email: dlswain@ucanr.edu ORCID: 0000-0003-4276-3092
Research Partner, Weather Extremes Across Scales	
NSF National Center for Atmospheric Research, Boulder, CO	Blog: www.weatherwest.com YouTube: @weatherwest Twitter/X: @Weather_West
Updated: May 27, 2025	Bluesky: @weatherwest.bsky.social
Research interests Climate change, extreme weather, regional hydroclimate, wildfire risk attribution, natural hazard & disaster risk, climate adaptation, science	
Climate change, extreme weather, regional hydroclimate, wildfire risk	
Climate change, extreme weather, regional hydroclimate, wildfire risk attribution, natural hazard & disaster risk, climate adaptation, science	e communication and engagement 2016

Professional experience

<u>Scientific Research Appointments</u> Climate Scientist (Associate Researcher) California Institute for Water Resources, University of California Agriculture and Natural Resources (UCANR)	Nov. 1 2024-Present
Climate Scientist (Associate Researcher) Climate Scientist (Assistant Researcher) Institute of Environment & Sustainability, University of California, Los Angeles	Jul. 2024-Present Sep. 2018-Jun. 2024
Research Partner, Weather Extremes Across Scales Research Fellow, Center for Weather & Climate Extremes NSF National Center for Atmospheric Research	May 2025-Present Sep. 2018-May 2025
California Climate Fellow The Nature Conservancy, Sacramento, CA	2018-2024
NatureNet Postdoctoral Fellow Institute of Environment & Sustainability, University of California, Los Angeles	2016-2018
Graduate Research Assistant Climate and Earth System Dynamics Group, Stanford University	2011-2016
<u>Private Sector Engagement</u> Senior Wildfire Advisor Inigo Insurance, London, U.K.	2025-Present

Climate Advisor ReAsk, Sydney, Australia	2022-Present
Climate Advisor Climate Check, San Francisco, CA	2021-Present
Meteorological Advisor Bloomsky, Redwood City, CA	2014-2021

Selected honors and awards

"Future Perfect 50" List, Vox Media	2024
DesignSafe Dataset Award (co-recipient with Xingying Huang), NSF/Univ. of Texas, Austin	2023
Deseret Magazine "Most Important Changemaker in the West"	2022
Vice Magazine "Human of the Year"	2020
National Academy of Sciences Kavli Fellow	2019
NatureNet Postdoctoral Fellowship, The Nature Conservancy/University of California	2016-2018
ARCS Fellowship, Achievement Rewards for College Scientists Foundation	2015-2016
Switzer Environmental Fellowship, Robert and Patricia Switzer Foundation	2015-2016
Graduate Student Award for Scholarly & Research Achievement, Stanford University	2015
Centennial Teaching Assistant Award, School of Earth Sciences, Stanford University	2013
College Medal, College of Agricultural & Environmental Sciences, Univ. of California, Davis	2011
Departmental Citation, Atmospheric Science, University of California, Davis	2011

Grants and external funding

Principal Investigator, Tilia Fund Climate Communication Grant Award total: ~\$275,000	2024-2029
Co-Investigator, Aon Reinsurance Solutions grant, "Future Fire Weather Scenarios," Award total: \$20,000 (UCLA portion)	2023-2025
Co-Principal Investigator, The Nature Conservancy of California grant, "Climate Science and Managing Nature to Minimize the Damage of Extreme Events," Award total: \$450,410	2018-2024
Co-Principal Investigator, National Science Foundation Prediction of and Resilience against Extreme Events (NSF PREEVENTS) Program, Track 2: "COEXIST: COnnected EXtremes In Space and Time," Award ID: 1854761, Award total: \$345,446 (UCLA portion)	2019-2024
Principal Investigator, California Department of Water Resources grant: "Developing plausible extreme storm and flood scenarios for disaster resilience planning and emergency response exercises in California," Award total: \$140,000	2021-2023
Principal Investigator, Yuba Water Agency grant: "Developing California Megastorm Scenarios for ARkStorm 2.0," Award total: \$60,000	2021-2022

Publications

41. Camponuri, S.K., Heaney, A.K., Cooksey, G.S., Vugia, D.J., Jain, S., Swain, D.L. Balmes, J., Remais, J.V., and Head, J.R. Recent and Forecasted Increases in Coccidioidomycosis Incidence Linked to Hydroclimatic Swings, California, USA, <i>Emerging Infectious Diseases</i> , 31(5):1028-1032, doi: 10.3201/eid3105.241338, 2025.	2025
40. Lee, P.S., Swain, D. L., and Johnson, R. Climate Change and Coccidioidomycosis. <i>Journal of the American Medical Association</i> . doi: 10.1001/jama.2024.27274, 2025.	2025
39. †Swain, D. L., Abatzoglou, J. T., Albano, C. M., Brunner, M., Diffenbaugh, N. S., Kolden, C., Prein, A.F., Singh, D., Skinner, C.B., Swetnam, T.W., and Touma, D. Increasing hydroclimatic whiplash can amplify wildfire risk in a warming climate. <i>Global Change Biology</i> , 31: e70075. doi: 10.1111/gcb.70075, 2025.	2025
38. Swain, D. L., Prein, A. F., Abatzoglou, J. T., Albano, C. M., Brunner, M., Diffenbaugh, N. S., Singh, D., Skinner, C.B., and Touma, D. Hydroclimate volatility on a warming Earth. <i>Nature Reviews Earth & Environment</i> , 6(1), 35-50. doi:10.1038/s43017-024-00624-z, 2025. <i>[Selected as featured article in Nature Portfolio Collection on Holocene Hydroclimate]</i>	2025
37. †Swain, D.L. On the Job: Daniel Swain, Climate Scientist. <i>Weatherwise</i> , 77 :1, 53-55, doi: 10.1080/00431672.2024.2284612, 2024.	2024
36. †Swain, D.L. Support climate scientists in engaging the public. <i>Nature</i> , 624 , 9, doi: 10.1038/d41586-023-03436-1, 2023.	2023
35. Swain, D.L. , J.T. Abatzoglou, C. Kolden, K. Shive, D. A. Kalashnikov, D. Singh, and E. Smith. "Climate change is narrowing and shifting prescribed fire windows in western United States." <i>Communications Earth and Environment</i> , 4 , 340, doi: 10.1038/s43247-023-00993-1, 2023.	2023
34. Gonzales, K.R., Swain, D.L. , Roop, H.A., and N.S. Diffenbaugh. Quantifying the Relationship Between Atmospheric River Origin Conditions and Landfall Temperature. <i>Geophysical Research Letters</i> , 127, e2022JD037284, doi: 10.1029/2022JD037284, 2022.	2022
33. * ++Huang, X.Y. and D.L. Swain . Climate change is increasing the risk of a California Megaflood. <i>Science Advances</i> , 8, 32, doi: 10.1126/sciadv.abq0995, 2022. <i>(Equal Contributions / Co-first authors)</i>	2022
32. Kalashnikov, D.A., Abatzoglou, J.T., Nauslar, N.J., Swain, D.L. , Touma, D., & D. Singh. Meteorological factors and elevation dependence of dry lightning in central and northern California. <i>Environmental Research: Climate</i> , 1, 025001, doi: 10.1088/2752-5295/ac84a0, 2022.	2022
31. *Touma, D., Stevenson, S., Swain, D.L. , Singh, D., Kalashnikov, D., and X.Y. Huang. Climate change increases risk of extreme rainfall following wildfire in the western United States. <i>Science Advances</i> , 8, eabm0320, doi: 10.1126/sciadv.abm0320, 2022.	2022
30. Fish, M.A., Done, J., Swain, D.L. , Wilson, A.M., Michaelis, A.C., Gibson, P.B., and F. Martin Ralph. Large-scale environments of successive atmospheric river events leading to compound precipitation extremes in California. <i>Journal of Climate</i> , 35, 1515–1536, doi: 10.1175/JCLI-D-21-0168.1, 2022.	2022

29. Kalashnikov, D., Schnell, J.L., Abatzoglou, J.T., Swain, D.L. and D. Singh. Increasing co-occurrence of fine particulate matter and ground-level ozone extremes in the western United States. <i>Science Advances</i> , 8, eabi9386, doi: 10.1126/sciadv.abi9386, 2022.	2022
28. Brunner, M.I., Swain, D.L. , Wood, R.R., Willkofer, F., Done, J.M., Gilleland, E., and R. Ludwig. An extremeness threshold determines the regional response of floods to changes in rainfall extremes. <i>Communications Earth and Environment</i> , 2 , doi: 10.1038/s43247-021-00248-x, 2021.	2021
27. Goldenson, N., Thackeray, C.W., Hall, A., Swain, D.L., and N. Berg. Using large ensembles to identify regions of systematic biases in moderate to heavy daily precipitation. <i>Geophysical Research Letters</i> , 48, e2020GL092026, doi: 10.1029/2020GL092026, 2021.	2021
26. †Swain, D.L. A shorter, sharper rainy season amplifies California wildfire risk. <i>Geophysical Research Letters</i> , 48, e2021GL092843, doi: 10.1029/2021GL092843, 2021.	2021
25. Brunner, M.I., Swain, D.L. , Gilleland, E., and A. Wood. Increasing importance of temperature as a driver of streamflow drought spatial extent. <i>Environmental Research Letters</i> , 16, 024038, doi: 10.1088/1748-9326/abd2f0, 2021.	2021
24. Gonzales, K.R., Swain, D.L., Barnes, E.A., and N.S. Diffenbaugh. Moisture vs. Wind-Dominated Flavors of Atmospheric Rivers. <i>Geophysical Research Letters</i> , 47, e2020GL090042, doi: 10.1029/2020GL090042, 2020.	2020
23. Swain, D.L. , Wing, O.E.J., Bates, P.D., Done, J.M., Johnson, K.A., and D.R. Cameron. Increased flood exposure due to climate change and population growth in the United States. <i>Earth's Future</i> , 8, e2020EF00177, doi: 10.1029/2020EF001778, 2020.	2020
22. Persad, G.G., Swain, D.L. , Kouba, C., and J.P.O. Partida. Inter-Model Agreement on Projected Shifts in California Hydroclimate Characteristics Critical to Water Management. <i>Climatic Change</i> , 162, 1493–1513, doi: 10.1007/s10584-020-02882-4, 2020.	2020
21. Abatzoglou, J., Smith, C., Swain, D.L. , Ptak, T., and C. Kolden. Population exposure to pre-emptive de-energization aimed at averting wildfires in Northern California. <i>Environmental Research Letters</i> , 15, 094046, doi: 10.1088/1748-9326/aba135, 2020.	2020
20. *Goss, M., Swain, D.L. , Sarhadi, A., Kolden, C.A., Abatzoglou, J.T., Williams, A.P., and N.S. Diffenbaugh. Climate change is increasing the risk of extreme autumn wildfire conditions across California. <i>Environmental Research Letters</i> , 15 (9), 094016, doi: 10.1088/1748-9326/ab83a7, 2020.	2020
[Named "Best Article of 2020" by Environmental Research Letters Editorial Board (2020); IOP Publishing Top Cited Paper Award (2023)]	
19. Huang, X., Swain, D.L. , and A. Hall. Large ensemble downscaling of extreme atmospheric River storms in California reveals large increase in fine-scale precipitation. <i>Science Advances</i> , 6, eaba1323, doi: 10.1126/sciadv.aba1323, 2020.	2020
18. Brunner, M.I., Gilleland, E., Wood, A., Swain, D.L. , and M. Clark. Spatial dependence of floods shaped by spatiotemporal variations in meteorological and land-surface processes. <i>Geophysical Research Letters</i> , 47, e2020GL088000, doi: 10.1029/2020GL088000, 2020.	2020
17. †Swain, D.L., Singh, D., Touma, D., and N.S. Diffenbaugh. Attributing extreme events to climate change: A new frontier in a warming world. <i>One Earth</i> , 2, 522-527, doi: 10.1016/j.oneear.2020.05.011, 2020.	2020

16. Huang, X., Swain, D.L. , Walton, D.B., Berg, N., Stevenson, S., and A. Hall, Simulating and Evaluating Atmospheric River-Induced Precipitation Extremes along the U.S. Pacific Coast: Case Studies from 1980-2017. <i>Journal of Geophysical Research: Atmospheres</i> , 125, e2019JD031554, doi: 10.1029/2019JD031554, 2020.	2020
15. Gibson, P.B., Waliser, D.E., Guan, B., DeFlorio, M.J., and D.L. Swain . Ridging associated with drought in western and southwestern United States: characteristics, trends and predictability. <i>Journal of Climate</i> , 33, 2485-2408, doi: 10.1175/JCLI-D-19-0439.1, 2020.	2020
14. Gonzales, K.R., Swain, D.L., Barnes, E.A., K. Nardi, and N.S. Diffenbaugh. Recent warming of landfalling atmospheric rivers along the West Coast of the United States. <i>Journal of Geophysical Research: Atmospheres</i> , 124, 6810-6826, doi: 10.1029/2018JD029860, 2019.	2019
13. †Swain, D.L. , 2019. Is society ready for precipitation whiplash?, In: "Toward a Resilient Global Society: Air, Sea Level, Earthquakes, and Weather." <i>Earth's Future</i> , 7, 854-864, doi: 10.1029/2019EF001242, 2019.	2019
12. Thackeray, C.W., A.M. DeAngelis, A. Hall, D.L. Swain , and X. Qu. On the Connection Between Global Hydrologic Sensitivity and Regional Wet Extremes. <i>Geophysical Review Letters</i> , 45, doi: 10.1029/2018GL079698, 2018.	2018
11. Touma, D., A. M. Michalak, D.L. Swain , and N.S. Diffenbaugh. Characterizing the spatial characteristics of extreme precipitation over the United States. <i>Journal of Climate</i> , 31, 8023-8037, doi: 10.1175/JCLI-D-18-0019.1, 2018.	2018
10. *Swain, D.L. , B. Langenbrunner, J.D. Neelin, and A. Hall. Increasing precipitation volatility in twenty-first-century California. <i>Nature Climate Change</i> , 8, 427-433, doi: 10.1038/s41558-018-0140-y., 2018.	2018
9. Swain, D.L. , D. Singh, D.E. Horton, J.S. Mankin, T. Ballard, and N.S. Diffenbaugh. Remote linkages to anomalous winter atmospheric ridging over the northeastern Pacific. <i>Journal of Geophysical Research: Atmospheres</i> , 122, 12,194-12,209, doi: 10.1002/2017JD026575, 2017.	2017
8. *Diffenbaugh, N.S., Singh, D., Mankin, J.S., Charland, A., Horton, D.E., Haugen, M., Swain, D.L., Rajaratnam, B., and Touma, D. Quantifying the influence of global warming on unprecedented extreme climate events. <i>Proceedings of the National Academy of Sciences</i> , 114, 4881-4886, doi: 10.1073/pnas.1618082114, 2017.	2017
7. Singh, D., D. L. Swain, J.S. Mankin, D.E. Horton, L.N. Thomas, B. Rajaratnam, and N.S. Diffenbaugh. Recent amplification of the North American winter temperature dipole. <i>Journal of Geophysical Research: Atmospheres</i> , 121, 9911-9928, doi: 10.1002/2016JD025116, 2016.	2016
6. Swain, D. L., Horton, D.E., Singh, D., and N.S. Diffenbaugh. Trends in atmospheric patterns conducive to seasonal precipitation and temperature extremes in California. <i>Science Advances</i> , 2, e1501344, doi: 10.1126/sciadv.1501344, 2016.	2016
5. Swain, D.L., Lebassi-Habtezion, B., and N.S. Diffenbaugh. Evaluation of non-hydrostatic simulations of Northeast Pacific atmospheric rivers and comparison to in-situ observation. <i>Monthly Weather Review</i> , 143, 3556-3569, doi: 10.1175/MWR-D-15-0079.1, 2015.	2015
4. *Horton, D.E., N.C. Johnson, D. Singh, D.L. Swain , B. Rajaratnam and N.S. Diffenbaugh. Contribution of changes in atmospheric circulation patterns to extreme temperature trends.	2015

Nature, 522, 465-469, doi: 10.1038/nature14550, 2015.

3. *Diffenbaugh, N.S., D.L. Swain and D. Touma. Anthropogenic warming has increased drought risk in California. 112, 3931-3936, <i>Proceedings of the National Academy of Sciences</i> , doi: 10.1073/pnas.1422385112, 2015.	2015
2. †Swain, D.L. A tale of two California droughts: Lessons amidst record warmth and dryness in a region of complex physical and human geography. <i>Geophysical Research Letters</i> , doi:10.1002/2015GL066628, 2015.	2015
1. *Swain, D.L. , M. Tsiang, M. Haugen, D. Singh, A. Charland, B. Rajaratnam and N.S. Diffenbaugh. The extraordinary California drought of 2013-2014: character, context, and the role of climate change [in "Explaining Extremes of 2013 from a Climate Perspective"]. <i>Bulletin of the American Meteorological Society</i> , 95 (9), S3–S7, 2014.	2014

- * = Essential Science Indicators (ISI) Highly Cited Paper
- ++ = Equal contributions/co-first authorship
- † = Perspective, commentary, opinion piece, or subject matter primer

Publications in progress

Camponuri, S.K., A.K. Heaney, G.S. Cooksey, D.J. Vugia, **D.L. Swain**, J. Balmes, J.V. Remais, and J.R Head. "Recent and forecasted increases in coccidioidomycosis incidence in California linked to swings in precipitation extremes" *(in review)*

Muñoz-Castro, E., Anderson, B.J., Astagneau, P.C., **Swain, D.L.**, Mendoza, P.A., and Brunner, M.I. "How well do hydrological models simulate streamflow extremes and drought-to-flood transitions?" *(in review)*

Science communication and public-facing science engagement

Author & founder. Weather West blog (www.weatherwest.com) Write regular articles focusing on a wide range of California/western North America weather and climate topics; answer questions from public, decision-makers, and scientists regarding meteorology/climatology/general science/science policy. Strong emphasis on making scientific and technical topics accessible to a broad audience (>1 million visitors each year).	2006-Present
<u>Climate, weather, wildfire, and Earth science engagement via social media</u> . Weather, climate, Earth science, and public policy discussion and outreach via Twitter as @Weather_West (>10 million views each year) and on YouTube (@WeatherWest) as well as Bluesky, Threads, & Mastodon. Daily direct engagement with public, scientists, wildland firefighters, water managers, local & regional government, and local to international policymaker	2014-Present s.
<u>Weather, climate, wildfire, and Earth science media liaison</u> Frequent, sustained engagement with local, national, and international news media on weather & climate-related issues. >250 interviews each year (>1,500 news media interviews cumulatively since 2018) with a wide range of outlets:	2013-present

<u>Newspaper:</u> New York Times, Washington Post, USA Today, Wall Street Journal, Bloomberg, Los Angeles Times, San Francisco Chronicle, Sacramento Bee

& dozens of local/regional papers

Long-form/magazine: Time, The Economist, Newsweek, The Atlantic, Wired, Scientific American, Popular Science, National Geographic, Rolling Stone, Vogue, Outside Magazine, Sunset Magazine, Bay Nature Magazine, Mother Jones, among many others

<u>Radio:</u> NPR/Science Friday (and numerous local affiliates), BBC World Service, ABC & CBS national radio (and local affiliates), plus hundreds of local stations

<u>Television:</u> CNN, ABC, NBC, PBS, BBC, CBC, Al Jazeera, HBO, public television in 15+ countries, Democracy Now, numerous documentaries, plus over 100 different local stations

Web outlets: Vox, Axios, Slate Magazine, Vice Magazine, Buzzfeed, Mashable, The Verge, & many others

<u>Climate/weather-focused:</u> The Weather Channel, Climate Central, Climate Nexus, InsideClimate News, Covering Climate Now, Wunderground, The Weather Network, Fox Weather

Podcasts: American Adapts (Doug Parsons), Science+Story (Bob Lalasz), Factually (Adam Conover, 3x), Water Talk, The Flakes (OpenSnow), Growing the Valley (UC Extension), What Next TBD (Slate Magazine, 4x), Nova (PBS), Climate Crisis (Yahoo News, 2x), What Is California? (Stu VanAirsdale), Abwaan Chronicles, Fifth and Mission (SF Chronicle, 3x), The Lookout (Zeke Lunder), Capital Considerations (Wilmington Trust, 2x), The Weather Geeks (The Weather Channel, x2) The Civil Engineering Podcast, In the Bubble (Andy Slavitt), Against the Odds (Wondery), NPR (Short Wave), ClimateBreak (UC Berkeley), GeoTrek (Hal Needham), Across the Sky, TILclimate Podcast (MIT), The Assignment (CNN/Audie Cornish), Union of Concerned Scientists Podcast (Jess Phoenix), The Everything Story (Jillian Goodman), SnowBrains (Miles Clark), A Song Called Life (Osi Atikpoh), WebMD Health Discovered Podcast, EarthSky (Dave Adalian), Climate Chat (Dan Miller), Star Talk (Neil deGrasse Tyson), California Sun (Jeff Schechtman), Who What Why (Jeff Schechtman), Living on Earth (NPR), The Climate Dispatch (Sierra Club), Last Born (Patrick Farnsworth), The Fire Break (Steve Wolf), Rebuilding LA (LA Times), Risky Science/Risk Market News (Christopher Westfall), Garden Basics with Farmer Fred (Fred Hoffman)

Science writing and film production for broad audiences

Scientific and Technical Advisor, "Climate Extremes: At The Abyss?" Documentary film; release date 10/25/2024.	2024
Swain, D.L. Extreme Weather Page-A-Day Calendar 2025: A Year of Fire Tornadoes, Atmospheric Rivers, and Other Wild Weather Events. Workman Publishing Company, ISBN-9781523525317, 6 August 2024.	2024
Swain, D.L. Extreme Weather Page-A-Day Calendar 2024: A Year of Fire Tornadoes, Atmospheric Rivers, and Other Wild Weather Events. Workman Publishing Company, ISBN-9781523520886, 8 August 2023.	2023
Swain, D.L. "The Deadly Dynamics of Colorado's Marshall Fire," <i>Outside Magazine</i> , 11 January 2022.	Jan. 2022
Swain, D.L., Kolden, C., and J. Abatzoglou, "The era of megafires: the crisis facing California and what will happen next," perspective in <i>The Guardian</i> , 08 August 2018.	Aug. 2018
Swain, D.L., Outside Magazine & KQED Public Media contributor, various articles	2015-2016

Public policy engagement

Peer-reviewed works cited 425 times across 328 policy documents (per Sage PolicyProfiles)	2014-present
Member, Scientific Advisory Committee for the Delta Stewardship Council's Delta Science Program	2021-present
Member, Public Policy Institute of California Water Policy Research Network	2018-present
Invited Presentation, Firescope Predictive Services Committee, State of California	Apr. 2025
Invited Seminar, National Park Service Climate Change Response Program	Feb. 2025
Invited Presentation, White House Office of Science and Technology Policy (OSTP) & U.S. Global Change Research Program delivered to U.S. Subcommittee on Global Change Research (SGCR) and the U.S. Subcommittee on Climate Services	Jan. 2025
Expert Testimony, Public Hearing on Climate Action, City of Hayward/Climate Protection and Restoration Initiative Public, Hayward, CA*.	Aug. 2024
Invited Panelist, White House Council of Economic Advisers Roundtable on Climate Risk Modeling, The White House, Washington, D.C.	Sep. 2023
Expert Testimony, Hearing on California's Preparedness for and Response to Extreme Atmospheric River Incidents, California Assembly Joint Hearing by Committee on Emergency, Committee on Utilities and Energy, & Committee on Water, Parks, and Wildlife	Feb. 2023
Invited Panelist, California Governor's Office of Planning and Research (OPR) Roundtable On Water Management and California's 5th Climate Change Assessment	Sep. 2022
Invited Expert, science briefing on extreme heat and climate change, office staff of U.S. Senator Alex Padilla	Sep. 2022
Invited Panelist, California Senate Democratic Caucus panel on climate change	Mar. 2022
Invited Panelist, Climate Change Town Hall meeting hosted by California State Senator Mike McGuire	Oct. 2021
Invited Expert, science briefing on extreme atmospheric rivers, climate change, and flood risk in California, United States Representative Terrance John Cox	Jul. 2020
Invited Expert, science briefing on weather extremes and climate change, United States Senator Sheldon Whitehouse	Oct. 2019
Invited scientific/professional presentations	
"Climate communication in an era of epistemic upheaval," Ecology and Evolutionary Biology Seminar, University of California, Santa Cruz, Santa Cruz, CA (invited speaker)	May 2025
"Shifts in seasonality and increases in hydroclimate whiplash are increasing California wildfire risk," <i>California Fire Science Seminar Series</i> , California Fire Science	Feb. 2025

Consortium/UC Berkeley* (invited speaker)

"Increasing hydroclimate whiplash in California: Implications for California's grasslands and shrublands," Rustici Rangeland Science Symposium, University of California, Davis, Davis, CA* (invited speaker)	Jan. 2025
"Increasing Hydroclimate Whiplash on a Warming Earth," DAES/ASRC Joint Colloquium Series, State University of New York, Albany (SUNY Albany) (invited speaker)	Oct. 2024
"An overview of ARkStorm 2.0 and its implications: California flood risk looms large in a warming climate," 2024 California Extreme Precipitation Symposium (CEPSYM), University of California, Davis, Davis, CA (invited speaker)	Jul. 2024
"Hydroclimate volatility on a warming Earth," <i>Earth Day Speaker Series</i> , National Science Foundation, Arlington, VA* (invited speaker)	Apr. 2024
"Increasing whiplash due to climate change: Perspectives on volatility in the hydrologic cycle (and beyond) in a warming world," <i>NASA Global Modeling and Assimilation Office (GMAO) Seminar Series on Earth System Science</i> , NASA Goddard Space Flight Center, Greenbelt, MD (invited speaker)	Mar. 2024
"Will increasing 'hydroclimate whiplash' in a warming climate amplify co-seismic hazards in California (and beyond)?" USGS Northern California Earthquake Hazards Workshop, Moffett Field, CA* (invited keynote speaker)	Jan. 2024
"ARkStorm 2.0: An extreme multi-week winter storm and flood scenario for California reimagined for the climate change era," <i>California Floodhub Discussion</i> , University of California Berkeley Center for Catastrophic Risk Management & California Department of Water Resources, Berkeley, CA* (invited speaker)	Nov. 2023
"Worse droughts, but also more severe floods: Increasing hydroclimate volatility in a warming California," <i>California Islands Climate Change Workshop, California Islands Symposium</i> , Ventura, CA* (invited speaker)	Nov. 2023
"Thinking (critically) about the most "extreme extremes" in a warming climate," Sci Foo Camp 2023, Googleplex, Mountain View, CA (invited speaker and participant)	Jul. 2023
"Increasing hydroclimate whiplash in a warming climate: Implications for the future of California water," UC Davis Institute of the Environment Seminar, University of California, Davis (invited speaker)	Apr. 2023
"Understanding extremes in a warming climate: On acknowledging uncertainty, embracing complexity, and asking societally relevant questions," <i>American Physical Society Annual Meeting</i> , Chicago, IL* (invited speaker)	Mar. 2022
"Rising California flood risk from stronger, wetter atmospheric rivers in a warming climate," California Extreme Precipitation Symposium, University of California, Davis* (invited speaker)	June 2021
"A worsening wildfire crisis in California and the broader West: The role of climate change," Cat Risk Management 2021 Conference, Reinsurance Association of America* (invited speaker)	Mar. 2021
"Sharpening seasonality and shifting hydrology: implications for wildfire and flood risk in a warming California," Geological and Planetary Sciences Division Seminar, California Institute	Mar. 2021

of Technology, Pasadena, CA* (invited speaker)

"Climate communication in the Twitter era: Challenges, opportunities, and some personal reflection," <i>American Geophysical Union Fall Meeting</i> , San Francisco, CA* (invited speaker)	Dec. 2020
"Regional downscaling of large ensemble simulations as a tool for understanding changing hydroclimatic extremes in a warming climate," <i>CLIVAR Large Ensembles Workshop</i> , Boulder, CO (invited speaker)	Jul. 2019
"Hydroclimatic intensification in a warming world: is society ready for increasing precipitation whiplash?" <i>American Geophysical Union Fall Meeting</i> , Washington, D.C. (invited speaker)	Dec. 2018
"Thinking about climate risk in an era of extremes: California's increasingly wide swings between drought and flood," <i>Department of Geography Seminar</i> , University of California, Berkeley (invited lecturer)	Oct. 2018
"Atmospheric rivers as a scientific (and conversational) bridge between weather and climate," <i>International Atmospheric Rivers Conference</i> , Scripps Institute of Oceanography, La Jolla, CA (invited speaker)	Jun. 2018
"California's increasingly extreme climate future," Rusch Honors Colloquium, Viterbi School of Engineering, Univ. of Southern California, Los Angeles, CA (invited lecturer)	Nov. 2017
"Causes and impacts of climate change—a California perspective," Climate and Law Policy Seminar, UCLA School of Law, Los Angeles, CA (invited lecturer)	Sep. 2017
"Teleconnections and regional impacts under anthropogenic forcing" & "Global warming influence on extreme events," US Climate Variability and Predictability Program (CLIVAR) Summit, Baltimore, MD (invited speaker and panelist)	Aug. 2017
"Trends in persistent seasonal-scale atmospheric circulation patterns responsible for precipitation and temperatures extremes in California," <i>American Geophysical Union Fall Meeting</i> , San Francisco, CA (invited speaker)	Dec. 2015
"Drought causes," American Geophysical Union Chapman Conf. on California Drought: Causes, Impacts, & Policy, Univ. of California, Irvine (invited speaker)	Apr. 2015
"The extraordinary 2012-2015 drought in California and its context in a warming world," <i>Water Scarcity in the West: Past, Present, Future Conference</i> , Univ. of California, Davis (invited speaker and panelist)	Apr. 2015
"Persistent atmospheric patterns and the ongoing California drought: the role of the Ridiculously Resilient Ridge," NASA Earth Science Seminar, NASA Ames, Mountain View, CA (invited speaker)	Mar. 2015
"The extraordinary California drought of 2012-2015: Historical context and the role of climate change," PACLIM <i>Pacific Climate Workshop 2015</i> , Pacific Grove, CA (invited speaker)	Mar. 2015
"The extraordinary California drought of 2012-2015: Historical context and the role of climate change," <i>Atmosphere and Energy Departmental Seminar</i> , Stanford University, Stanford, CA (invited speaker)	Mar. 2015

Academic service activities and professional affiliations

Journal Manuscript Referee: Geophysical Research Letters (29 reviews), Journal of Climate (14 reviews), Journal of Geophysical Research—Atmospheres (7 reviews), Environmental Research Letters (5 reviews), Science Advances (4 reviews), Proceedings of the National Academy of Sciences (6 reviews), Bulletin of the Ameri Meteorological Society, (3 reviews), Climatic Change (2 reviews), International Journal of Climatology (2 reviews), Scientific Reports (2 reviews), Communications Earth and Environment (4 reviews), Advances in Water Resources (1 review), Earth's Future (2 review), Nature (1 review), Nature Climate Change (1 review), Nature Communications (1 review), PNAS Nexus (1 review), Global Change Biology (1 review)	
Ad Hoc Reviewer, NSF Climate and Large-scale Dynamics (CLD) Program	2024
Expert External Reviewer, Corporation for Public Broadcasting, proposed PBSKIDS digital and broadcast content pertaining to weather/climate	2024
External Reviewer, University of California personnel advancement dossiers	2022
Associate Editor, Frontiers in Climate, Climate, Ecology, and People section	2021-2022
Ad Hoc Reviewer, NSF Paleo Perspectives on Climate Change (P2C2) Program	2021
Ad Hoc Reviewer, NSF Industry-University Research Partnerships	2021
AGU Outstanding Student Presentation Award Judge, AGU Fall Meeting	2024, 2019
Expert Reviewer, United Nations International Strategy for Disaster Reduction (UNISDR) Global Assessment Report on Disaster Risk Reduction (GAR) 2019	2019
Expert Reviewer, California's Fourth Climate Change Assessment	2018
President, American Meteorological Society Student Chapter, UC Davis	2009-2011
AGU Fall Meeting session co-convener: "Hydroclimate and Extremes in the Western United States in a Changing Climate," "Bridging the Gap from Climate to Extreme Weather: Observations, Theory and Modeling" (2019), "Tropical Cyclones in the Global Climate System" (2010)	2024, 2019, 2010
Member, American Association for the Advancement of Science (AAAS)	2017-present
Member, American Geophysical Union (AGU)	2010-present
Member, American Meteorological Society (AMS)	2007-present
Broader community engagement (including invited talks & events)	
Invited Speaker, "The Weather and Climate Livestream: 100 Hours to Save America's Forecasts," broadcast live via YouTube*	May 2025
Invited Sneaker "Wildfire & Climate Change in California: Lessons From Los Angeles	May 2025

Invited Speaker, "Wildfire & Climate Change in California: Lessons From Los AngelesMay 2025& Other Recent Disasters," Los Altos Hills County Fire District Wildfire CommunityPreparedness Day, Los Altos Hills, CA*

Invited Keynote Speaker: "Drier and Wetter in 21st Century California? Managing Increasing Hydroclimate Whiplash in a Warming World," Irvine Company Landscape Symposium, Irvine, CA	Apr. 2025
Invited Keynote Speaker: "Wildfire and climate change in California: Lessons from Los Angeles and other recent disasters," Special community event hosted by CA Wildfire and Forest Resilience Task Force, Climate and Wildfire Institute, and Marin Wildfire Prevention Authority, San Rafael, CA	Mar. 2025
Invited speaker: "What we know (and what we don't) about climate change in California," <i>Language of the Land Webinar</i> , Sonoma Land Trust*	Feb. 2025
Invited Speaker, "Climate change in California: Hotter with increasing hydroclimate whiplash," Alameda County Beekeepers Association Meeting, Alameda, CA*	Feb. 2025
Invited Keynote Speaker, "Drier <i>and</i> wetter in 21st century California? Managing increasing hydroclimate whiplash in a warming world," California Irrigation Institute Annual Conference, Sacramento, CA	Jan. 2025
Invited Keynote Speaker , "Drier <i>and</i> wetter in 21 st century California? Managing increasing hydroclimate whiplash in a warming world," California Irrigation Institute Annual Conference (Water: What's Your Next Move?), Sacramento, CA	Jan. 2025
Invited Opening Speaker, "The Science of Climate Change in California and beyond," Climate Health and Action Webinar Series, San Bernardino County Medical Society/ California Medical Association*	Sep. 2024
Invited Speaker , "Atmospheric Rivers, Heat Domes, and Hydroclimate Whiplash (Oh My!): How is it Playing Out Today?", Ursus Environmental Symposium, University of California, Los Angeles College of Social Sciences/Department of Geography *	Sep. 2024
Invited Guest and Speaker, "Recharging California - In Conversation with Dr. Daniel Swain," Public webinar hosted by Sustainable Conservation*	Sep. 2024
Invited Speaker, "Wildfires and climate change in Northern California." Marin Wildfire Prevention Authority Ecologically Sound Practices Partnership (ESP) Meeting, San Rafael, CA	Jul. 2024
Invited Speaker, "Climate change in California: What we know, what we don't know, and what it all means for the Golden State." Stanford Alumni for Climate Action*	Apr. 2024
Invited Keynote Speaker, "Hydroclimate whiplash on a warming Earth." Operation Sierra Storm Conference 2024, South Lake Tahoe, CA	Jan. 2024
Invited Speaker, "Twister in 35mm: A post-screening conversation." Beware the Elements: Natural Disasters on Film series, Academy Museum of Motion Pictures, Los Angeles, CA	Jan. 2024

Invited Speaker, "Revisiting the ARkStorm 2.0 scenario in the context of an evolving El Niño event," FEMA Region 9 Climate Adaptation Seminar*	Sep. 2023
Invited Panelist, "Extreme weather events and their impact on urban, rural, working, and natural lands," TOGETHER Bay Area 2023 Spring Conference, Richmond, CA	May 2023
Invited Keynote Speaker, "California flood risk looms large as atmospheric rivers intensify in a warming climate," California Central Valley Flood Control Association Flood Forum 2023, Sacramento, CA	Apr. 2023
Invited Speaker , "The future of precipitation in California: A tale of water scarcity (but also overabundance) amid a warming climate," The Nature Conservancy Board Meeting, Santa Barbara, CA	Feb. 2023
Invited Speaker, "Weather extremes in a warming climate: Thoughts from a meteorologist-turned-climate scientist," Steamboat Weather Summit, Steamboat Springs, CO	Jan. 2023
Climate Feedback expert reviewer, assessing national/international media coverage on climate change and extreme weather as member of accredited fact-checking organization	2016-2022
Invited Speaker, "ARkStorm 2.0: A new and improved extreme storm and flood scenario for California in the climate change era," Federal Emergency Management Agency (FEMA) Region 9 Briefing*	Oct. 2022
Invited Keynote Speaker, "In a warming climate, California flood risk looms large despite long-term aridification and worsening drought," California Department of Water Resources "Drought to Flood" Climate Change Symposium, Sacramento, CA*	Oct. 2022
Invited Community Speaker , "California weather in the climate change era: A tale of increasing hydroclimate whiplash," Chan Zuckerberg Biohub Community Speaker Series, San Francisco, CA	Sep. 2022
Invited Speaker, "California Weather, Climate & Its Extremes," Sustainable Silicon Valley Water & Sustainable Life (WET) Talk*	July 2022
Invited Panelist, West Coast Climate Crisis Symposium, University of California, Los Angeles*	June 2022
Invited Speaker, "California Wildfire in the Climate Change Era," Marin Wildfire Prevention Authority*	May 2022
Invited Speaker, "Drought, flood, and precipitation whiplash in a warming California," The Metropolitan Water District of Southern California Water Dialogue*	Mar. 2022
Invited Panelist , "California Dystopia: Understanding Climate Change and Social Collapse through Science Fiction," USC Visions and Voices: The Arts and Humanities Initiative, University of Southern California, Los Angeles, CA	Mar. 2022

Invited Speaker and Panelist, "Hanging Ourselves Out to Dry or The Beginning of a New Beginning?" California Foundation on the Environment and the Economy Conference on California Water*	Dec. 2021
Invited Speaker, California Water Action Collaboration Risk Discussion Session*	Dec. 2021
Invited Keynote Speaker, "California water in an era of increasing climate complexity," California Water Policy Conference*	Nov. 2021
Invited Speaker and Panelist, "Climate extremes and prediction in a warming California," Drought and Climate Forecasting Panel, California Legislative Staff Education Institute Virtual Meeting*	Nov. 2021
Invited Panelist, "Making our water infrastructure climate-ready," California Water Policy Conference, Public Policy Institute of California*	Nov. 2021
Invited Speaker and Panelist, "Climate extremes in a warming California," California Climate Safe Policy Summit*	Aug. 2021
Invited Speaker, "Warmer and wilder: Increasing water resource variability in a changing California," California Water Efficiency Partnership Annual Conference*	Jun. 2021
Invited Plenary Speaker, "Hotter, drier, and longer: Shifting seasonality and fire season in California," The Nature Conservancy of California Leadership Meeting*	Jun. 2021
Invited Speaker, "Wildfire, flood, and drought risk in a warming California," Bay Area Climate Adaptation Network Meeting*	May 2021
Invited Speaker, "Climate change in California: A drier or wetter future—orboth?" 2021 Thelma Hansen Virtual Symposium, University of California Cooperative Extension*	Apr. 2021
Invited Speaker, "Climate Change Issues Affecting Water Supply, Storage and Flood Control, and Endangered Species," California Water Law and Policy Conference 2021*	Apr. 2021
Invited Speaker, "Increasing hydroclimate whiplash in California: Challenges (and opportunities) for wildfire and flood management," ARCS Foundation webinar*	Apr. 2021
Invited Speaker, "Climate Change and Extreme Events in California," Northern California Science Writers Association virtual meeting*	Mar. 2021
Invited Panelist, "Climate change in California and Nevada: Challenges and opportunities in an era of increasing variability," Operation Sierra Storm Broadcast Meteorology Virtual Conference*	Jan. 2021
Invited Panelist , "A Meteorologist, a Seismologist, a Volcanologist, and a Decision-maker Walk into a Bar: Improving our own risk and impact communication by examining experiences from outside the weather, water, and climate enterprise," American Meteorological Society Annual Virtual Meeting*	Jan. 2021

Invited Keynote Speaker, "Water woes in a warming California: Management challenges Dec. 2020

and opportunities in an era of increasing variability," Association of California Water Agencies (ACWA) Virtual Fall Meeting *	
Invited Speaker, "Fanning the Flames: The Reality of Climate Change and Wildfires in California," Nature Conservancy of California Webinar*	Nov. 2020
Invited Keynote Speaker, "Climate Change in California: A Tale of Shifting Baselines, Sharpening Seasonality, and Increasing Precipitation Whiplash," Interagency Ecological Program Annual Workshop, Folsom, CA*	Oct. 2020
Invited Panelist, "Early Career Leadership Academy Panel," American Meteorological Society*	Oct. 2020
Invited Speaker, "Climate Change in California: Wetter wets, drier drys, and shifting seasonality," San Bernardino Valley Municipal Water District Board Engineering Workshop*	Aug. 2020
Invited Panelist, "The Future of Wildfire, Climate Change, and Water in the West," California Grantmakers Association*	July 2020
Invited Speaker, "Role of the scientist-communicator in an era of social media and climate change," The Nature Conservancy of California Webinar *	Mar. 2020
Invited Speaker, "Climate change in California: A tale of fire and flood," Water Education Foundation "Water Leaders" Orientation, Sacramento, CA*	Jan. 2020
Invited Speaker, "Wetter, drier, or both? Increasing hydroclimatic variability in 21 st century California," University of California Agriculture & Natural Resources Water Strategic Initiative meeting, Davis, CA*	May 2019
Invited Speaker, "Is California ready for increasing precipitation whiplash?," American River Operations Work Group meeting, Folsom, CA*	May 2019
Invited Speaker, "Forces of Nature: H2-Uh-Oh," First Fridays event at Natural History Museum of Los Angeles, Los Angeles, CA	May 2019
Invited Speaker, "The Wild West of Online Science Communication," University of Washington Program on Climate Change, Seattle, WA*	Apr. 2019
Invited Panelist, "LA's New Abnormal: Megafires," UCLA Institute of the Environment and Sustainability & The Nature Conservancy, Los Angeles, CA	Feb. 2019
Invited Speaker, "Fire & Water from the 30,000-Foot Level," Water Education Foundation "Water Leaders" Orientation, Sacramento, CA*	Jan. 2019
Invited Keynote Speaker , "Drought, flood, and wildfire amidst increasing climate whiplash: the challenging road ahead for water management in the West," Water Education Foundation Water Summit, Sacramento, CA	Sep. 2018
Invited Interactive Speaker, "Climate Change Cliff Notes," A Climate Series for the Ages, hosted by UCLA Institute of Environment and Sustainability & Natural History Museum of Los Angeles, Los Angeles, CA	Oct. 2017
Invited Speaker, "Change in a land of extremes: what we know (and don't know) about California's climate future," Krotona Institute/Ojai Valley Conservancy, Ojai, California	May 2017

15

Featured Speaker, Stanford Connects 2016: "The Rise of the Ridiculously Resilient Ridge and the Future of California Drought," Stanford University, Stanford, CA	May 2016
Project Mentor, Stanford University course: "International Climate Negotiations (COP 21)"	Dec. 2015
Invited Speaker, "Flood in a time of drought? Effects of a powerful El Niño in the midst of California's record dry spell," Association of Bay Area Governments, Oakland, CA	Sep. 2015
Invited Speaker , "Climate Change in a Land of Extremes: Drought and Flood in California's Past, Present, and Future," U.S. National Park Service Parsons Memorial Lodge Lecture Series, Yosemite National Park, CA	Aug. 2015
Invited Speaker and Panelist, "California Drought Panel," Water in the West/Woods Institute for the Environment, Stanford University, Stanford, CA	Mar. 2015
Invited Panelist, "Earth Matters/A Matter of Degrees," Stanford Continuing Studies Program, Stanford University, Stanford, CA	Feb. 2015
Invited Science Speaker, "Stanford to the Sea" Science Hike, "The Ridiculously Resilient Ridge in Context: Climate Variability of California's Past, Present, and Future," Bill Lane Center for the American West, Stanford University, Stanford, CA	May 2014
Invited Speaker and Panelist, "Current Drought: Causes, how bad is it, and will we see more?" University of California Drought Summit, California State Capitol, Sacramento, CA	Apr. 2014
Invited Speaker and Panelist, "The California Drought: Causes, Context, and Response," Bill Lane Center for the American West/Woods Institute for the Environment, Stanford University, Stanford, CA	Feb. 2014
Founder and leader, Aggie Forecasting Team at University of California, Davis	2008-2011
Co-leader, Atmospheric Profiling & Stratospheric Photography Project, Univ. of Calif., Davis	2009-2011
*Denotes remote participation via teleconference	

Additional awards and recognitions

IOP Publishing Top Cited Paper Award (Goss et al. 2020)	2023
Environmental Research Letters Editorial Board "Best Article of 2020" (Goss et al. 2020)	2021
Finalist, AAAS Early Career Award for Public Engagement with Science	2018
"Must Follow" Social Media Meteorologist/Climatologist, Forbes Magazine	2016
Best Talk Award, Environmental Science, SES Research Review, Stanford University	2016
Oakland Museum of California "Agent of Change"	2015
"Ten under 30: Young leaders changing the American West," High Country News	2015
Fellow, Rising Environmental Leaders Program, Stanford Woods Inst. for the Environment	2013
"Research as Art" competition winner, School of Earth Sciences, Stanford University	2015, 2012
ThinkSwiss Award, Swiss National Science Foundation, "NCCR Climate Summer School,"	2013

Grindelwald, Switzerland

Winner, Prized Writing Competition, Scientific & Technical Writing, Univ. of California, Davis	2010, 2008
Guillermo Salazar Rodriguez Undergraduate Scholarship, American Meteorological Society	2010
Invitee, NCAR Undergraduate Leadership Workshop, Boulder, CO	2010
Regents Scholarship, University of California, Davis	2009-2011
UC Davis Integrated Studies Honors Program International Education Award	2008
UC Davis International Relations Study Abroad Award	2008
Edward Kraft Prize, University of California, Davis	2008
American Meteorological Society Undergraduate Scholarship	2007-2009
Henry A. Jastro Recruitment Scholarship, University of California, Davis	2007-2009
NASA Ames/AIAA Galileo Memorial Scholarship	2007

Additional professional experience

<u>Teaching</u> Teaching Assistant, Department of Earth System Science, Stanford University Course: "Atmosphere, Ocean & Climate Dynamics: The Atmospheric Circulation."	2013
Invited Guest Lecturer University of California, Los Angeles Courses: Advanced Topics in Environment and Sustainability; Climate Law and Policy; The Blue Planet: Introduction to Oceanography	2016-2020
Stanford University Courses: Atmosphere, Ocean & Climate Dynamics I & II (ESS 246A & ESS 246B); Forecasting for Innovators (ME297); Stanford Pre-Collegiate Institutes	2013-2023
Academic Advisees Eduardo Muñoz-Castro, Doctoral Student, Swiss Institute for Snow and Avalanche Research /ETH Zurich (Co-advised with Drs. Manuela Brunner & Bailey Anderson, ETH Zurich)	2024-Present
Dr. Jennifer Bukowski, Postdoctoral Researcher, Inst. Of Environ. & Sustainability, UCLA (Co-advised with Dr. James Done, NSF National Center for Atmospheric Research)	2021-2023
Additional publications	
Non-peer reviewed reports Persad, G.G., Partida, J.P.O., and Swain, D.L., "Troubled Waters: Preparing for Climate Threats to California's Water System," Union of Concerned Scientists, 2020.	2020
Mount, J., Swain, D.L., and P. Ullrich, "Just the Facts: Climate Change and California's Water," <i>Public Policy Institute of California</i> , 2019.	2019
Hanak, E. et al., "California's Water," Public Policy Institute of California, 2018.	2018
Mount, J. et al., "Managing Drought in a Changing Climate: Four Essential Reforms," Public Policy	2018

Additional scientific presentations

<u>Oral presentations</u> "Clausius-Clapeyron as a potential framework for quantifying and attributing an increasingly broad range of extremes amid uncertainty in a warming climate," <i>American Geophysical Union Fall</i> <i>Meeting, Washington, D.C.</i>	Dec. 2024
"Hydroclimate Volatility on a Warming Earth," American Geophysical Union Fall Meeting, San Francisco, CA	Dec. 2023
"Climate change is narrowing and shifting windows favorable for prescribed fire in western United States," American Geophysical Union Fall Meeting, Chicago, IL*	Dec. 2022
"ARkStorm 2.0: Developing a new extreme atmospheric river storm scenario for 21st century California," International Atmospheric Rivers Conference (virtual meeting)*	Oct. 2020
"Dynamics of and precursors to California megafloods, present and future," <i>American Meteorological Society Annual Meeting</i> , Phoenix, AZ	Jan. 2019
"Increasing climate whiplash in 21st century California," <i>American Geophysical Union Fall Meeting</i> , New Orleans, LA	Dec. 2017
"California precipitation extremes in a warming world," Sustainable LA Water Research Grand Challenge Research Symposium, Los Angeles, CA	Nov. 2017
Poster presentations "Is society ready for increasing climate whiplash?" 2019 Israeli-American Kavli Frontiers of Science Symposium, Jerusalem, Israel	Sep. 2019
"Connections between the tropical Pacific Ocean, Arctic sea ice, and anomalous northeastern Pacific ridging," <i>American Geophysical Union Fall Meeting</i> , San Francisco, CA	Dec. 2016
"Character and causes of changing Pacific climate extremes: Special focus on the extraordinary 2012-2015 California drought," Young Environmental Scholars Conference, Stanford, CA	Dec. 2015
"The Extraordinary California Drought of 2013-2014: Character, Context, and the Role of Climate Change," <i>American Geophysical Union Fall Meeting</i> , San Francisco, CA	Dec. 2014
"The Extraordinary California Drought of 2013-2014: Character, Context, and the Role of Climate Change," Graduate Climate Conference, Seattle, WA	Nov. 2014
"The Extraordinary California Drought of 2013-2014: Character, Context, and the Role of Climate Change," <i>Fourth Workshop on understanding Climate Change from Data</i> , National Center for Atmospheric Research, Boulder, CO	Jun. 2014
"Evaluation of high-resolution simulations of Northeast Pacific atmospheric rivers," American Geophysical Union Fall Meeting, San Francisco, CA	Dec. 2013
"Mid-Latitude Precipitation Extremes: Latitudinal Linkages and Climate Change,"	Sep. 2013

Swiss National Center for Competence in Research (NCCR Climate), Grindelwald, Switzerland

"High-resolution seasonal simulations of Northeast Pacific atmospheric rivers and comparison Dec. 2012 to in-situ observations," *American Geophysical Union Fall Meeting*, San Francisco, CA