Daniel L. Swain

45, doi: 10.1029/2018GL079698, 2018.

Assistant Researcher, Institute of the Environment & Sustainability University of California, Los Angeles, CA Research Fellow, Capacity Center for Climate and Weather Extremes National Center for Atmospheric Research, Boulder, CO California Climate Fellow The Nature Conservancy of California, San Francisco, CA Research interests	Phone: (303) 497-1117 Email: dlswain@ucla.edu ORCID: 0000-0003-4276- Twitter: @Weather_West Blog: www.weatherwest.co Updated: January 21, 2020	om
Dynamics & impacts of regional climate change, hydrological extremes, extr tropical/Arctic teleconnections, natural hazard risk, climate adaptation, scie Education		
Ph.D., Earth System Science, Stanford University Dissertation: "Character and causes of changing North Pacific climate extre Advisor: Dr. Noah Diffenbaugh	mes"	2016
B.S., Atmospheric Science, University of California, Davis (Highest H Publications	Ionors)	2011
Huang, X., Swain, D.L., Walton, D.B., Berg, N., and A. Hall, Simulating an Atmospheric River-Induced Precipitation Extremes along the U.S. Pacific C from 1980-2017 <i>(in press, Journal of Geophysical Research: Atmospheres)</i>	e	2020
Gibson, P.B., Waliser, D.E., Guan, B., DeFlorio, M.J., and D.L. Swain , Ric drought in western and southwestern United States: characteristics, trends a <i>(in press, Journal of Climate)</i>		2019
Gonzales, K.R., Swain, D.L. , Barnes, E.A., K. Nardi, and N.S. Diffenbaug of landfalling atmospheric rivers along the West Coast of the United States, <i>Geophysical Research: Atmospheres</i> , 124, 6810-6826, doi: 10.1029/2018JD02986	Journal of	2019
†Swain, D.L. , 2019. Weather: Is society ready for precipitation whiplash?, I Resilient Global Society: Air, Sea Level, Earthquakes, and Weather," <i>Earth's</i> doi: 10.1029/2019EF001242, 2019.		2019
Thackeray, C.W., A.M. DeAngelis, A. Hall, D.L. Swain , and X. Qu, On the Between Global Hydrologic Sensitivity and Regional Wet Extremes, <i>Geophys.</i> 15 , 10, 1020 (2010) (2010		2018

Touma, D., A. M. Michalak, **D.L. Swain**, and N.S. Diffenbaugh, Characterizing the spatial 2018 characteristics of extreme precipitation over the United States, *Journal of Climate*, 31, 8023-8037, doi: 10.1175/JCLI-D-18-0019.1, 2018.

***Swain, D.L.**, B. Langenbrunner, J.D. Neelin, and A. Hall, Increasing precipitation volatility in 2018 twenty-first-century California, *Nature Climate Change*, 8, 427-433,

doi: 10.1038/s41558-018-0140-y., 2018.

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
*Diffenbaugh, N.S., Singh, D., Mankin, J.S., Charland, A., Horton, D.E., Haugen, M., Swain, D.L., Rajaratnam, B., 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
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
*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
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 observations, <i>Monthly Weather Review</i> , 143, 3556-3569, doi: 10.1175/MWR-D-15-0079.1, 2015.	2015
*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, <i>Nature</i> , 522, 465–469, doi: 10.1038/nature14550, 2015.	2015
*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
†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 Review Letters</i> , doi:10.1002/2015GL066628, 2015.	2015
*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</i> <i>Meteorological Society</i> , 95 (9), S3–S7, 2014.	2014
* = ISI Highly Cited Paper	

† = Perspective or commentary

Publications submitted/in preparation

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>(in revision)</i>	2020
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" (in revision)	2020

Brunner, M.I., Gilleland, E., Wood, A. Swain, D.L., and M. Clark, "Spatial dependence of floods In the United States governed by meteorological and land-surface Processes" (in review)	2020
Swain, D.L., Wing, O., Bates, P., Johnson, K., Christopher, S., Done, J., and D.R. Cameron, "Timescale dependence of increases in extreme precipitation and associated flood risk across the continental United States" (<i>in prep</i>)	2020
Persad, G.G., Swain, D.L., Kouba, C., and J.P.O. Partida, "Strong Model Agreement on Projected Shifts in California Hydroclimate Characteristics Critical to Water Management" (<i>in prep</i>)	2020
Abatzoglou, Kolden, C., Swain, D.L., and C. Smith, "Population exposure to pro-active power outages aimed at averting wildfires in Northern California" (<i>in prep</i>)	2020
Goldenson, N., Thackeray, C.W., Swain, D. L., Hall, A., and N. Berg, "Distinguishing Epistemic Uncertainties in Global Climate Simulations of Extreme Precipitation" (in prep)	2020

Published reports

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 Institute of California, 2018.	2018

Selected honors and awards

National Academy of Sciences Kavli Fellow	2019
Finalist, AAAS Early Career Award for Public Engagement with Science	2018
NatureNet Postdoctoral Fellowship, 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
"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
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
Winner, Prized Writing Competition, Scientific & Technical Writing, Univ. of California, Davis	2010, 2008
Guillermo Salazar Rodriguez Undergraduate Scholarship, American Meteorological Society	2010
Regents Scholarship, University of California, Davis	2009-2011
American Meteorological Society Undergraduate Scholar	2007-2009

Henry A. Jastro Recruitment Scholarship, University of California, Davis	2007-2009
NASA Ames/AIAA Galileo Memorial Scholarship	2007

Grants

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)

Science communication and science writing

<i>Author & founder, Weather West blog (www.weatherwest.com)</i> 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
<i>Climate science engagement via social media</i> Weather, climate, Earth science, and public policy discussion and outreach via Twitter as @Weather_West (>10 million views each year). Direct engagement with public, scientists, wildland firefighters, water managers, local & regional government, members of U.S. Congress	2014-Present
<i>Atmospheric and climate science media liaison</i> Frequent, sustained engagement with local, national, and international news media on weather & climate-related issues. Over 400 interviews with a wide range of outlets, including:	2013-present
<u>Newspaper:</u> New York Times, Washington Post, USA Today, Wall Street Journal, Bloomberg, Los Angeles Times, San Francisco Chronicle, Sacramento Bee & local outlets	
Long-form/magazine: Time, The Economist, Newsweek, The Atlantic, Wired, Scientific American, Popular Science, National Geographic, Vogue, Outside Magazine, Sunset Magazine, Bay Nature Magazine, Mother Jones	
Radio: NPR/Science Friday (and numerous local affiliates), BBC World Service ABC & CBS national radio (and local affiliates), various local and university stations	
<u>Television:</u> CNN, ABC, NBC, PBS, Democracy Now, Al Jazeera, Global National Canada, HBO, German and Danish public television, numerous local news affiliates	
Web outlets: Vox, Slate Magazine, Vice Magazine, Buzzfeed, Mashable, The Verge	
Climate/weather-focused: Climate Central, Climate Nexus, InsideClimate News, Generation Anthropocene podcast, The Weather Channel, Wunderground, The Weather Network	
<i>Science writing for broad audiences</i> Occasional contributor of invited popular science/current event-related perspective pieces in print and online media, including selected publications below.	2010-present
Swain, D.L., Kolden, C., and J. Abatzoglou, "The era of megafires: the crisis facing California and what will happen next," article in <i>The Guardian</i> , 08 August 2018	2018

4

Swain, D.L. and V. Carranza, "The science behind 'An Inconvenient Sequel," article for UCLA Institute of the Environment & Sustainability blog, 08 August 2017.	2017
Swain, D.L., Outside Magazine contributor, various articles	2015-2016
Swain, D.L., KQED Public Media contributor, various articles	2015-2016
Swain, D.L., and N.S. Diffenbaugh, "Viewpoints: Climate change is increasing the chances of drought," <i>Sacramento Bee</i> Op-Ed, 30 September 2014.	2014
Swain, D.L., 2010, "Of Ice and Men: How changes in Arctic sea ice affect our climate, our weather, and our ways of life," <i>Prized Writing 2009-2010</i> , P. Demory, Ed., Univ. of California, Davis, 210-217.	2010
Invited scientific presentations	
"Regional downscaling of large ensemble simulations as a tool for understanding changing hydroclimatic extremes in a warming climate," CLIVAR Large Ensembles Workshop, 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. (<i>invited speaker</i>)	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," International Atmospheric Rivers Conference, 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 <i>(invited lecturer)</i>	Nov. 2017
"Causes and impacts of climate change—a California perspective," Climate and Law Policy Seminar, UCLA School of Law, Los Angeles, CA <i>(invited lecturer)</i>	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 (<i>invited speaker</i>)	Dec. 2015
"Drought causes," American Geophysical Union Chapman Conf. on California Drought: Causes, Impacts, & Policy, Univ. of California, Irvine (invited panelist)	Apr. 2015
"The extraordinary 2012-2015 drought in California and its context in a warming world," Water Scarcity in the West: Past, Present, Future Conference, 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
Professional experience	
Scientific research appointments Climate Scientist Inst. of Environment & Sustainability, University of California, Los Angeles Lead research on dynamics & impacts of regional climate change and serve as primary media point of contact on weather/climate-related topics.	2018-Present
California Climate Fellow The Nature Conservancy Lead interdisciplinary research aimed at understanding of dynamics of future climate changes (including extreme events) and implications for human infrastructure and ecosystems; evaluate risk-reduction interventions & co-benefits to society & natural systems.	2018-Present
Capacity Center for Weather & Climate Extremes Fellow National Center for Atmospheric Research Lead research into atmospheric/Earth system dynamics of hydrologic cycle extremes.	2018-Present
Postdoctoral Fellow Inst. of Environment & Sustainability, University of California, Los Angeles Investigate the character and causes of changes in hydrological cycle extremes in California.	2016-2018
Graduate Research Assistant Climate and Earth System Dynamics Group, Stanford University Develop and conduct scientific investigations of climate variability and change in the North Pacific/western North America region, with a focus on extreme meteorological events and persistent circulation patterns.	2011-2016
Intern NASA/National Center for Suborbital Research, University of California, Irvine Obtain "ground truth" measurements for comparison to NASA overflights with hyperspectral imager as part of agricultural evapotranspiration study.	2010
Teaching	

Teaching Assistant, Department of Earth System Science, Stanford University2013Course: "Atmosphere, Ocean & Climate Dynamics: The Atmospheric Circulation." Give guest2014lectures, develop and implement practical laboratory sessions, hold office hours, and evaluate2013student performance.2013

Courses: Climate Law and Policy; The Blue Planet: Introduction to Oceanography

2013-2016

Public and community outreach

Climate Feedback expert reviewer, assessing national/international media coverage on climate change and extreme weather as member of accredited fact-checking organization	Sep. 2016-present
Member, Public Policy Institute of California Water Policy Research Network	Apr. 2018-present
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	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 Expert, "Extremes in a warming climate: Knowns, unknowns, and emerging evidence," Science briefing for United States Senator Sheldon Whitehouse, National Center for Atmospheric Research, Boulder, CO	Oct. 2019
Invited Speaker, "Wetter, drier, or both? Increasing hydroclimatic variability in 21st 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 Rive Operations Work Group meeting, Folsom, CA*	er 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 an Sustainability & The Nature Conservancy, Los Angeles, CA	d 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 o Los Angeles, Los Angeles, CA	Oct. 2017 f
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

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 attendance via teleconference software or telephone	

Other awards and recognitions

"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
"Research as Art" competition winner, School of Earth Sciences, Stanford University	2015, 2012
ThinkSwiss Award, Swiss National Science Foundation, "NCCR Climate Summer School," Grindelwald, Switzerland	2013
Invitee, NCAR Undergraduate Leadership Workshop, Boulder, CO	2010
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

	2010
"Will It Ever Rain Again? The Models Say Whoa,"" <i>Bay Nature Magazine,</i> https://baynature.org/2018/11/01/will-it-ever-rain-again-the-models-say-whoa	2018
"Writing About Weather In The West: Interview with Daniel Swain, Climate Scientist & Blogger," <i>COMPASS Science Communication</i> , https://www.compassscicomm.org/post/writing-about-weather in-the-west-interview-with-daniel-swain-climate-scientist-blogger	
"This is What It's Like To Be a Young Climate Scientist," <i>Climate Central</i> , https://www.climatecentral.org/news/young-climate-scientists-interviews-20799	2016
"Young leaders changing the American West," <i>High Country News</i> , https://www.hcn.org/articles/ten-people-under-30-changing-the-west	2015
"A young climate scientist: Daniel Swain," Yale Climate Connections, https://www.yaleclimateconnections.org/2015/11/a-young-climate-scientist-daniel-swain	2015
"Watching the weather with Daniel Swain," <i>Bay Nature Magazine,</i> https://baynature.org/article/watching-the-weather-with-daniel-swain	2015
Other scientific presentations	
Oral presentations "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," Dec. 2013 American Geophysical Union Fall Meeting, San Francisco, CA

"Mid-Latitude Precipitation Extremes: Latitudinal Linkages and Climate Change," Swiss National Center for Competence in Research (NCCR Climate), Grindelwald, Switzerland	Sep. 2013
"High-resolution seasonal simulations of Northeast Pacific atmospheric rivers and comparison to in-situ observations," <i>American Geophysical Union Fall Meeting</i> , San Francisco, CA	Dec. 2012

Professional affiliations and service activities

AGU Outstanding Student Presentation Award Judge	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
Journal Manuscript Referee (Nature, Nature Climate Change, Proceedings of the National Academy Of Sciences, Climatic Change, Geophysical Research Letters, Journal of Climate, Bulletin of the American Meteorological Society, Science Advances, Scientific Reports, Advances in Water Resources, Journal of Geophysical Research: Atmospheres)	2013-present
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
President, American Meteorological Society Student Chapter, UC Davis	2009-2011
AGU Fall Meeting session co-convener: "Bridging the Gap from Climate to Extreme Weather: Observations, Theory and Modeling" (2019), "Tropical Cyclones in the Global Climate System" (2010)	2019, 2010