Katherine (Katie) Dagon (she/her)

National Center for Atmospheric Research P.O. Box 3000, Boulder, CO 80307 kdagon@ucar.edu • https://katiedagon.github.io

EDUCATION

Harvard University	Cambridge, MA
Ph.D., Earth and Planetary Sciences	2017
A.M., Earth and Planetary Sciences	2015
Brown University	Providence, RI
B.S., Mathematics-Physics	2010

PROFESSIONAL APPOINTMENTS

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National Center for Atmospheric Research	Boulder, CO
Project Scientist II, Climate and Global Dynamics	2022-present
Project Scientist I, Climate and Global Dynamics	2019-2022
Advanced Study Program (ASP) Postdoctoral Fellow	2017-2019
Harvard University	Cambridge, MA
Graduate Research Assistant, Department of Earth and Planetary Sciences	2011-2017
State of Connecticut Department of Energy and Environmental Protection	Hartford, CT
Seasonal Resource Assistant	2010-2011
United Technologies	South Windsor, CT
NASA-UTC Internship Program	2010
Brown University	Providence, RI
Undergraduate Research Assistant, Department of Physics	2009-2010

AWARDS & FELLOWSHIPS

NCAR Early Career Scientists Assembly Travel Award	2023
NCAR Accelerated Scientific Discovery Computation Award (Lead: M.J. Molina)	2022-2023
Radiant Earth Foundation Leading Women in ML4EO	2022
NCAR CISL Special Recognition Award for AI4ESS	2020
Andrew Slater Award, NCAR Land Model Working Group Meeting	2019
Earth Educators' Rendezvous Travel Grant	2018
NCAR Advanced Study Program Postdoctoral Fellowship	2017-2019
Presidential Management Fellowship Finalist	2017
NCAR CESM Workshop Travel Grant	2016
Certificate of Teaching Excellence, Bok Center for Teaching & Learning	2014, 2016
Duff Family Endowed Graduate Support Fund, Harvard University	2013-2014
Graduate Consortium Fellowship, Harvard University Center for the Environment	2012-2013
Joseph J. Loferski Award, Brown University Engineering	2010
Brown University Undergraduate Research and Teaching Award	2009

SUBMITTED PUBLICATIONS

Eyring, V., W.D. Collins, P. Gentine, E.A. Barnes, M. Barreiro, T. Beucler, M. Bocquet, C.S. Bretherton, H.M. Christensen, **K. Dagon**, *et al.* (Under Review), Pushing the Frontiers in Climate Modeling and Analysis with Machine Learning.

Zarakas, C.M., D. Kennedy, **K. Dagon**, D.M. Lawrence, A. Liu, G. Bonan, C. Koven, D. Lombardozzi, and A.L.S. Swann (Under Review), Land Processes Can Substantially Impact the Mean Climate State.

PEER-REVIEWED PUBLICATIONS

- Molina, M.J., T.A. O'Brien, G. Anderson, M. Ashfaq, K.E. Bennett, W.D. Collins, **K. Dagon**, J.M. Restrepo, and P.A. Ullrich (2023), A review of recent and emerging machine learning applications for climate variability and weather phenomena, *Artificial Intelligence for the Earth Systems*, 2, 220086, https://doi.org/10.1175/AIES-D-22-0086.1.
- Touma, D., J.W. Hurrell, M. Tye, and **K. Dagon** (2023), The impact of stratospheric aerosol injection on extreme fire weather risk, *Earth's Future*, 11, e2023EF003626, https://doi.org/10.1029/2023EF003626.
- Molina, M.J., J.H. Richter, A.A. Glanville, K. Dagon, J. Berner, A. Hu, and G.A. Meehl (2023), Subseasonal representation and predictability of North American weather regimes using cluster analysis, *Artificial Intelligence for the Earth Systems*, 2, e220051, https://doi.org/10.1175/AIES-D-22-0051.1.
- Cheng, Y., K. Musselman, S. Swenson, D. Lawrence, J. Hamman, **K. Dagon**, D. Kennedy, and A.J. Newman (2023), Moving land models towards more actionable science: A novel application of the Community Terrestrial Systems Model across Alaska and the Yukon River Basin, *Water Resources Research*, 59, e2022WR032204, https://doi.org/10.1029/2022WR032204.
- **Dagon, K.**, J. Truesdale, J.C. Biard, K.E. Kunkel, G.A. Meehl, and M.J. Molina (2022), Machine learning-based detection of weather fronts and associated extreme precipitation in historical and future climates, *Journal of Geophysical Research: Atmospheres*, 127, e2022JD037038, https://doi.org/10.1029/2022JD037038.
- Tye, M.R., **K. Dagon**, M.J. Molina, J.H. Richter, D. Visioni, B. Kravitz, and S. Tilmes (2022), Indices of Extremes: Geographic patterns of change in extremes and associated vegetation impacts under climate intervention, *Earth System Dynamics*, 13, 1233-1257, https://doi.org/10.5194/esd-13-1233-2022.
- Ali, A.A., Y. Fan, M.D. Corre, M.M. Kotowska, E. Preuss-Hassler, A.N. Cahyo, F.E. Moyano, C. Stiegler, A. Röll, A. Meijide, A. Olchev, A. Ringeler, C. Leuschner, R. Ariani, T. June, S. Tarigan, H. Kreft, D. Hölscher, C. Xu, C.D. Koven, **K. Dagon**, R.A. Fisher, E. Veldkamp, and A. Knohl (2022), Implementing a new rubber plant functional type in the Community Land Model (CLM5) improves accuracy of carbon and water flux estimation, *Land*, 11, 183, https://doi.org/10.3390/land11020183.
- Prabhat, K. Kashinath, M. Mudigonda, S. Kim, L. Kapp-Schwoerer, A. Graubner, E. Karaismailoglu, L. von Kleist, T. Kurth, A. Greiner, K. Yang, C. Lewis, J. Chen, A. Lou, S. Chandran, B. Toms, W. Chapman, **K. Dagon**, C.A. Shields, T. O'Brien, M. Wehner, and W. Collins (2021), ClimateNet: an expert-labelled open dataset and Deep Learning architecture for enabling high-precision analyses of extreme weather, *Geoscientific Model Development*, 14, 107-124, https://doi.org/10.5194/gmd-14-107-2021.
- **Dagon, K.**, B.M. Sanderson, R.A. Fisher, D.M. Lawrence (2020), A machine learning approach to emulation and biophysical parameter estimation with the Community Land Model, version 5, *Advances in Statistical Climatology, Meteorology and Oceanography*, 6, 223-244, https://doi.org/10.5194/ascmo-6-223-2020.
- Xu, Y., L. Lin, S. Tilmes, **K. Dagon**, L. Xia, C. Diao, W. Cheng, Z. Wang, I. Simpson, and L. Burnell (2020), Climate engineering to mitigate the projected 21st-century terrestrial drying of the Americas: a direct comparison of carbon capture and sulfur injection, *Earth System Dynamics*, 11, 673-695, https://doi.org/10.5194/esd-11-673-2020.
- Cheng, W., D.G. MacMartin, **K. Dagon**, B. Kravitz, S. Tilmes, J.H. Richter, M.J. Mills, and I.R. Simpson (2019), Soil moisture and other hydrological changes in a stratospheric aerosol geoengineering large ensemble, *Journal of Geophysical Research: Atmospheres*, 124, 12773-12793, https://doi.org/10.1029/2018JD030237.
- Kravitz, B., D.G. MacMartin, S. Tilmes, J.H. Richter, M.J. Mills, W. Cheng, **K. Dagon**, A.S. Glanville, J.-F. Lamarque, I.R. Simpson, J.J. Tribbia, and F. Vitt (2019), Comparing surface and stratospheric

- impacts of geoengineering with different SO₂ injection strategies, *Journal of Geophysical Research: Atmospheres*, 124, 7900-7918, http://dx.doi.org/10.1029/2019JD030329.
- **Dagon, K.**, and D.P. Schrag (2019), Quantifying the effects of solar geoengineering on vegetation, *Climatic Change*, 153, 235-251, http://dx.doi.org/10.1007/s10584-019-02387-9.
- **Dagon, K.**, and D.P. Schrag (2017), Regional climate variability under model simulations of solar geoengineering, *Journal of Geophysical Research: Atmospheres*, 122, 12106-12121, http://dx.doi.org/10.1002/2017JD027110.
- **Dagon, K.**, and D.P. Schrag (2016), Exploring the effects of solar radiation management on water cycling in a coupled land-atmosphere model, *Journal of Climate*, 29, 2635-2650, http://dx.doi.org/10.1175/JCLI-D-15-0472.1.
- Tobias, S.M., **K. Dagon**, and J.B. Marston (2011), Astrophysical fluid dynamics via direct statistical simulation, *The Astrophysical Journal*, 727, 127, http://dx.doi.org/10.1088/0004-637X/727/2/127.

NON PEER-REVIEWED PUBLICATIONS

- Mayer, K.J., **K. Dagon**, and M.J. Molina (2023), Identifying Tropical State-Dependent Bias Relevant to Midlatitude Subseasonal Predictability with Explainable Neural Networks, *Subseasonal-to-Seasonal Prediction Project Newsletter*, No. 23,
 - http://s2sprediction.net/file/newsletter/Newsletter%2023 Aug%202023.pdf.
- Molina, M.J., T.A. O'Brien, G. Anderson, M. Ashfaq, K.E. Bennett, W. Collins, S. Collis, **K. Dagon**, S. Klein, J.M. Restrepo, and P.A. Ullrich (2022), Climate Variability and Extremes, in Hickmon, N.L., C. Varadharajan, F.M. Hoffman, S. Collis, and H.M. Wainwright (Eds.), *Artificial Intelligence for Earth System Predictability (AI4ESP) Workshop Report*, https://doi.org/10.2172/1888810.
- **Dagon, K.**, M.J. Molina, *et al.* (2021), Machine learning to extend and understand the sources and limits of water cycle predictability on subseasonal-to-decadal timescales in the Earth system, DOE EESSD White Paper on AI4ESP, https://doi.org/10.2172/1769744.

INVITED TALKS & SEMINARS

- CU Boulder Earth Lab Earth Data Science Seminar, Boulder, CO, December 2023
- Univ. of Wyoming Department of Atmospheric Science Seminar, Laramie, WY, November 2023
- Univ. of Washington Department of Atmospheric Sciences Colloquium, Seattle, WA, November 2023
- ARC Centre of Excellence for Climate Extremes Attribution and Risk Webinar, virtual, April 2023
- Colorado School of Mines Women Earth Data Scientists Day Keynote, Golden, CO, April 2023
- NCAR CGD Seminar Series [joint with D. Kennedy], Boulder, CO, February 2023
- DOE Rubisco SFA Biogeochemistry Science Friday Webinar, virtual, November 2021
- Lewis University Department of Physics Weisenthal Colloquium Series, virtual, February 2021
- Lawrence Berkeley National Laboratory NERSC Seminar, Berkeley, CA, November 2019
- Penn State Dept. of Meteorology and Atmos. Sci. Colloquium, State College, PA, February 2019
- American University Department of Environmental Science, Washington, DC, February 2019
- Indiana Univ. Dept. of Earth and Atmospheric Sciences Colloquium, Bloomington, IN, January 2019
- Pennsylvania State University Department of Geography Seminar, State College, PA, January 2019
- Univ. of Washington Department of Atmospheric Sciences Seminar, Seattle, WA, July 2018

SELECTED CONFERENCE & WORKSHOP PRESENTATIONS (*invited)

- Systematic Parameter Calibration with Machine Learning-Based Emulation of a Global Land Model, *SIAM Conference on Uncertainty Quantification*, Trieste, Italy, February 2024 (*talk).
- Building an Inclusive Earth System Data Science Community at NCAR/UCAR, *American Geophysical Union Fall Meeting*, San Francisco, CA, December 2023 (poster).
- Al and Machine Learning for Climate Science and Modeling, *NSF Research Infrastructure Workshop*, virtual, June 2023 (*talk & panel).

- Objective Calibration of Land Models, *American Meteorological Society Annual Meeting*, Denver, CO, January 2023 (*talk).
- Machine Learning-Based Detection of Weather Fronts and Associated Extreme Precipitation in Historical and Future Climates, *American Geophysical Union Fall Meeting*, Chicago, IL, December 2022 (talk).
- Changes in Extremes and Associated Vegetation Impacts under Climate Intervention, *Gordon Research Conference on Climate Engineering*, Newry, ME, June 2022 (poster).
- Objective Calibration of Land Models, Aspen Global Change Institute Workshop on Exploring the Frontiers in Earth System Modeling with Machine Learning and Big Data, Aspen, CO, June 2022 (*talk).
- NCAR Earth System Data Science, *NASEM Machine Learning and Artificial Intelligence to Advance Earth System Science Workshop*, virtual, February 2022 (*talk & panel), https://doi.org/10.5281/zenodo.6048010.
- Machine Learning-Based Feature Detection to Associate Precipitation Extremes with Synoptic Weather Events, *American Geophysical Union Fall Meeting*, virtual, December 2021 (*talk).
- Grand Challenges in AI4ESP: A Climate Modeling Perspective, *DOE Artificial Intelligence for Earth System Predictability (AI4ESP) Workshop*, virtual, November 2021 (*plenary).
- Machine Learning and Earth System Modeling: From Parameter Calibration to Feature Detection, *Kavli Institute for Theoretical Physics Machine Learning for Climate Conference*, Santa Barbara, CA, November 2021 (*talk), https://doi.org/10.26081/K6334B.
- Machine Learning-Based Feature Detection to Associate Precipitation Extremes with Synoptic Weather Events, *2nd Workshop on Knowledge Guided Machine Learning*, virtual, August 2021 (*talk).
- Applying Machine Learning to Associate Precipitation Extremes with Synoptic-Scale Weather Events, American Geophysical Union Fall Meeting, virtual, December 2020 (talk).
- Bayesian Calibration with Neural Network-Based Emulation of a Land Model, *American Geophysical Union Fall Meeting*, virtual, oral presentation, December 2020 (*talk).
- A Machine Learning Approach to Quantify Land Model Parameter Uncertainty, *American Geophysical Union Fall Meeting*, San Francisco, CA, December 2019 (talk).
- Machine Learning for Parameter Estimation in CLM5, *CESM Land Model Working Group Meeting*, Boulder, CO, February 2019 (talk).
- Reducing Uncertainty in Land Surface Models, *American Geophysical Union Fall Meeting*, Washington, DC, December 2018 (talk).
- Moving Towards a Global Biogeophysical Parameter Optimization for CLM5, *Community Earth System Model Workshop*, Boulder, CO, June 2018 (talk).
- Effects of Solar Geoengineering on Vegetation: Implications for Biodiversity and Conservation, *American Geophysical Union Fall Meeting*, New Orleans, LA, December 2017 (talk).
- Regional Climate Variability under Model Simulations of Solar Geoengineering, *Gordon Research Conference on Climate Engineering*, Newry, ME, July 2017 (poster).
- Soil Moisture-Climate Coupling under Model Simulations of Solar Geoengineering, *Community Earth System Model Workshop*, Breckenridge, CO, June 2016 (talk).
- Exploring the Effects of Solar Radiation Management on Water Cycling in a Coupled Land-Atmosphere Model, *Graduate Climate Conference*, Woods Hole, MA, November 2015 (talk).

OPEN DATA & CODE

Dagon, K. (2023), Machine learning-based detection of weather fronts with DL-FRONT in CESM1.3, Zenodo, https://doi.org/10.5281/zenodo.8306870.

- Tye, M.R., and **K. Dagon**, (2023), Data from: Indices of Extremes: Geographic patterns of change in extreme temperature and precipitation under climate intervention, Zenodo, https://doi.org/10.5281/zenodo.7552538.
- **Dagon, K.**, and M.J. Molina, (2022), katiedagon/ML-extremes: Publication release (v1.0), Zenodo, https://doi.org/10.5281/zenodo.7126839.
- **Dagon, K.**, J. Truesdale, N. Rosenbloom, and S. Bates, (2022), Machine learning-based detection of weather fronts and associated extreme precipitation in CESM1.3, Version 2.0, UCAR/NCAR GDEX, https://doi.org/10.5065/q6t7-ta06.
- **Dagon, K.** (2020), katiedagon/CLM5_ParameterUncertainty: Publication release (v1.0), Zenodo, https://doi.org/10.5281/zenodo.4302690.
- **Dagon, K.** (2020), CLM5 Perturbed Parameter Ensembles, Version 1.0, UCAR/NCAR GDEX, https://doi.org/10.5065/9bcc-4a87.

TEACHING

Tutorials and Workshops

- Community Earth System Model Tutorial, virtual, August 2021
- AGU Tutorial on Machine Learning and Deep Learning, virtual, December 2020
- Artificial Intelligence for Earth System Science (AI4ESS) Summer School, virtual, June 2020
- Community Terrestrial Systems Model Tutorial, Boulder, CO, February 2019

Guest Lectures

- "Climate Modeling Research at NCAR," Undergraduate/Graduate Environmental Journalism course, University of Colorado Boulder, Boulder, CO, April 2023
- "Modeling Land-Atmosphere Interactions in a Changing Climate," Masters of the Environment Graduate Program, University of Colorado Boulder, virtual, May 2021
- "Research on Climate Science and Modeling," Undergraduate Groundwater Hydrology course, Oglala Lakota Tribal College, virtual, April 2020

Teaching Assistantships

- The Consequences of Energy Systems (graduate), Department of Earth and Planetary Sciences, Harvard University, Fall 2015 and 2016
- The Climate-Energy Challenge (undergraduate), Department of Earth and Planetary Sciences, Harvard University, Fall 2014, 2015, and 2016
- The Fluid Earth (undergraduate), Department of Earth and Planetary Sciences, Harvard University, Spring 2013
- Introductory Calculus (undergraduate), Department of Mathematics, Brown University, Fall 2009

MENTORING

Students/Postdocs

- Kachinga Silwimba, PhD student, Boise State University, NCAR ASP GVP Co-Host, Spring 2024
- Hossein Kaviani, PhD student, University of Virginia, PhD Plus Research Mentor and Dissertation Committee Member, 2023 -
- Mark Irby-Gill, Undergraduate, Red Rocks Community College, UCAR SOARS/LEAP REU Research Mentor, Summer 2023
- Rebecca Porter, Undergraduate, University of Saint Mary, UCAR SOARS/LEAP REU Research Mentor, Summer 2023
- Jhayron Steven Pérez-Carrasquilla, PhD student, University of Maryland, Dissertation Committee Member, 2023 -
- Linnia Hawkins, Postdoctoral Fellow, NCAR/Columbia, Research Mentor, 2022 -
- Kirsten Mayer, Postdoctoral Fellow, NCAR, Research Mentor, 2022
- John Landy, PhD student, Stony Brook University, Dissertation Committee Member, 2022 -

- Tariq Walker, Undergraduate, Kennesaw State University, UCAR SOARS Writing Mentor, Summer 2021
- Gavin Blair, Kingston High School, Science Research Mentor, 2020-2021
- Lilly Jones, PhD student, South Dakota School of Mines & Technology, UCAR Next Generation Fellowship Research Mentor, 2019-2020
- William Meyers, Carmel High School, Science Research Mentor, 2019
- Sung Min Kim, Undergraduate, Cornell University, UCAR SOARS Community Mentor, Summer 2018
- Catarina Do, Undergraduate, Harvard College, WISTEM Mentor, 2016-2017
- Victoria Garito, Briarcliff High School, Intel Science Research Program Mentor, 2014-2015

Mentoring Programs

- Harvard Earth and Planetary Sciences Graduate Peer Mentoring, 2011-2015
- Harvard Graduate Women in Science and Engineering Mentoring Program, 2011-2013
- Brown University Women's Launch Pad Mentoring Program, 2009-2010

ACADEMIC SERVICE & LEADERSHIP

- Discussion Leader, Gordon Research Conference on Climate Engineering, 2024
- Session Convener, Perturbed Parameter Ensembles for Understanding Processes and Quantifying Uncertainty in Earth System Models, AGU Fall Meeting, 2023
- Leadership Committee, NCAR Earth System Data Science (ESDS) Initiative, 2020 -
- Session Organizer, Parameter Estimation Cross Working Group, CESM Workshop, 2023
- Co-Chair, Gordon Research Seminar on Climate Engineering, 2022
- Session Co-Lead, Climate Variability and Extremes, DOE Al4ESP Workshop, 2021
- Session Organizer, Machine Learning Cross Working Group, CESM Workshop, 2021
- Panelist, ASP Postdocs Writing a Research Statement Workshop, 2021
- Coordinator, NCAR Climate and Global Dynamics Seminar Series, 2020-2021
- Executive Committee, Topical Group on Physics of Climate, American Physical Society, 2019-2021
- Postdoctoral Fellows Networking Committee, National Center for Atmospheric Research, 2017-2019
- Program Committee, Topical Group on Physics of Climate, American Physical Society, 2017-2018
- Organizer, Plants and Climate Seminar Series, Harvard University, 2015-2016
- Organizing Committee, Fourth Interdisciplinary Summer School on Geoengineering, Harvard University, 2013
- Journal Reviewer: Artificial Intelligence for the Earth Systems, Atmospheric Chemistry and Physics, Biogeosciences, Earth's Future, Earth System Dynamics, Environmental Data Science, Geophysical Research Letters, Geoscientific Model Development, Journal of Advances in Modeling Earth Systems, Journal of Hydrometeorology, Scientific Data
- Proposal Reviewer: The Degrees Initiative DECIMALS Fund, NSF Climate and Large-Scale Dynamics Program

PUBLIC ENGAGEMENT

- CU Boulder Investigate Careers in the Environment talk, Boulder, CO, 2022
- American Physical Society Congressional Visits Day, virtual, 2021
- Watershed High School Guest Scientist, virtual, 2020
- WOW Children's Museum Girls in Science Night, Lafayette, CO, 2020
- NCAR Traveling Climate Exhibit Scientific Team, Boulder, CO, 2019
- USA Science and Engineering Festival, Washington, DC, 2018
- Project Bridge Colorado Science Day at the State Capitol, Denver, CO, 2018
- Twin Peaks Charter Academy Guest Scientist, Longmont, CO, 2017
- NCAR Super Science Saturday, Boulder, CO, 2017-2019
- There's a Scientist in My Classroom! Guest Lecturer, Danvers, MA, 2014
- Science in the News Event Organizer and Lecturer, Boston, MA, 2013-2016

SCIENCE WRITING

- Analyzing and visualizing CAM-SE output in Python, *NCAR ESDS Blog*, 15 August 2023, https://ncar.github.io/esds/posts/2023/cam-se-analysis.
- Sparse arrays and the CESM land model component, *NCAR ESDS Blog*, 24 February 2022, https://ncar.github.io/esds/posts/2022/sparse-PFT-gridding.
- Engineering the Earth to Fight Climate Change, *Science in the News Blog*, 25 October 2016, http://sitn.hms.harvard.edu/flash/2016/engineering-earth-fight-climate-change.
- Climate Change 2016: Make America Hot Again, *Science in the News Blog*, 9 August 2016, http://sitn.hms.harvard.edu/flash/2016/climate-change-2016-make-america-hot.
- Science by the Pint, *The Plainspoken Scientist*, Student Blog Series, 18 July 2016, http://blogs.agu.org/sciencecommunication/2016/07/18/science-by-the-pint.
- Pausing to Talk About Climate Change, *Science in the News Blog*, Special Edition on Climate Change, 30 June 2014, http://sitn.hms.harvard.edu/flash/2014/pausing-to-talk-about-climate-change.

MEDIA

- "Understanding the Dynamic Climate System," Interviewee, *APS News*, May 2020, https://www.aps.org/publications/apsnews/202005/climate.cfm.
- "Space Mirrors and Other Weird Ways to Fight Climate Change," Scientific Consultant, ACS Reactions and PBS Digital Studios, 25 September 2019, https://www.youtube.com/watch?v=9agoVDFJs8A.
- "Ice Drove Past Indo-Pacific Climate Variance," Interviewee, *AGU EOS*, 2 April 2019, https://doi.org/10.1029/2019EO119709.
- "A Disappointing New Problem With Geo-Engineering," Interviewee, *The Atlantic*, 8 August 2018, https://www.theatlantic.com/science/archive/2018/08/solar-geo-engineering-cant-save-the-worlds-crops/567017.
- "Cow Burps are Warming the Planet," Scientific Consultant, *ACS Reactions and PBS Digital Studios*, 20 March 2018, https://www.youtube.com/watch?v=MnRFUSGz_ZM.
- "Big Solutions for Big Problems," Interviewee, *Building a Greener Idaho Radio Show*, 31 August 2017, https://bgidaho.wordpress.com/2017/08/31/big-solutions-for-big-problems.

PROFESSIONAL DEVELOPMENT

- NCAR Early Career Leadership Program, Boulder, CO, 2023
- NVIDIA/NCAR GPU Hackathon, Boulder, CO, 2023
- Diversity, Equity, Inclusion & Belonging Foundational Training, Strata RMK, virtual, 2022
- UCAR/NCAR Equity and Inclusion (UNEION) 201 Training Series, virtual, 2020-2021
- Earth Science Women's Network Leadership Workshop, Boulder, CO, 2019
- Rising Voices 7 Workshop: Building relationships and practices for intercultural science, NCAR, Boulder, CO, 2019
- UCAR/NCAR Equity and Inclusion (UNEION) 101 Training Series, Boulder, CO, 2018
- Earth Educators' Rendezvous Preparing for an Academic Career Workshop, University of Kansas, Lawrence, KS, 2018
- Low Environmental Impact Solar Radiation Management Experiments Workshop, Institute for Advanced Sustainability Studies, Potsdam, Germany, 2016
- Active Learning in the Sciences Teaching Seminar, Derek Bok Center for Teaching and Learning, Cambridge, MA, 2015
- Community Land Model (CLM) Tutorial, NCAR, Boulder, CO, February 2014
- ComSciCon-local Communicating Science Workshop, Harvard University, Cambridge, MA, 2014
- Harvard Graduate Consortium on Energy and Environment, Cambridge, MA, 2012-2015
- Global Climate Coalition at UNFCCC COP15, University of Copenhagen, Copenhagen, Denmark, 2009

PROFESSIONAL AFFILIATIONS

American Geophysical Union, Earth Science Women's Network, 500 Women Scientists

TECHNICAL SKILLS

Languages: Bash, Fortran, HTML, LaTeX

Modeling Tools: NetCDF, HPC, Machine Learning, NCAR CESM/CLM

Development Tools: Git/GitHub, Conda, Jupyter Notebooks

Scientific Visualization & Analysis: Python, NCL/NCO, R, Keras, TensorFlow, PyTorch