

Marysa M. Laguë, PhD

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PRONOUNS: she/her

Research Interests

Land-atmosphere interactions. Terrestrial surface energy budget. Climate dynamics. Earth system modeling & idealized modeling. Land use impacts on the climate system. Atmospheric feedbacks. Vegetation impacts on the hydrologic cycle.

Current Position

MAR. 2021-PRESENT **James S. McDonnell Foundation Postdoctoral Fellow in Dynamic and Multiscale Systems**
Coldwater Lab
University of Saskatchewan Center for Hydrology
Canmore, Alberta, Canada
Host: Dr. Martyn Clark

Previous Positions

DEC. 2020-FEB. 2021 **Visiting Research Fellow**
Coldwater Lab
University of Saskatchewan Center for Hydrology
Canmore, Alberta, Canada
Host: Dr. Martyn Clark

OCT. 2019-DEC. 2020 **James S. McDonnell Foundation Postdoctoral Fellow in Dynamic and Multiscale Systems**
University of California, Berkeley
Department of Earth & Planetary Science
Berkeley, CA, USA
Host: Dr. William Boos

Education

- 2019 PhD, Atmospheric Sciences
University of Washington
Seattle, WA, USA
Department of Atmospheric Sciences
Advisor: Dr. Abigail Swann
Supervisory committee: Abigail Swann, Gordon Bonan, Cecilia Bitz, David Battisti,
Dargan Frierson, Gerard Roe
Dissertation: *Quantifying the role of individual surface properties on atmospheric feedbacks and land-atmosphere interactions*
- 2018 MSc, Applied Mathematics
University of Washington
Seattle, WA, USA
- 2016 MSc, Atmospheric Sciences
University of Washington
Seattle, WA, USA
Thesis: *Progressive Mid-latitude Afforestation: Local and Remote Climate Impacts in the Framework of Two Coupled Earth System Models*
- 2013 BSc, Honours Mathematics
University of British Columbia
Vancouver, BC, Canada

Publications

- M. M. Laguë**, M. Pietschnig, S. Ragen, T. Smith, D. S. Battisti. Terrestrial evaporation and global climate: lessons from Northland, a planet with a hemispheric continent. *Journal of Climate*, 34(6), 2253–2276, 2021. EarthArXiv Preprint. DOI: 10.1175/JCLI-D-20-0452.1.
- F. Tromboni, J. Liu, E. Ziaco, D. Breshears, K. Thompson, W. Dodds, K. Dahlin, E. La Rue, J. Thorp, Andrés Viña, **M. M. Laguë**, A. Maasri, H. Yang, S. Chandra, S. Fei. Macrosystems as metacoupled human and natural systems. *Frontiers in Ecology and the Environment*, 20-29, 2021. DOI: 10.1002/fee.2289
- A. J. Rushby, A. L. Shields, E. T. Wolf, **M. M. Laguë**, A. Burgasser. The Effect of Land-Albedo Feedback on the Climate of Land-Dominated Planets in the TRAPPIST-1 System. *The Astrophysical Journal*, 2020. ArXiv Preprint. DOI:10.3847/1538-4357/abbe04.
- L. Boysen, V. Brovkin, J. Pongratz, D. Lawrence, P. Lawrence, N. Vuichard, P. Peylin, S. Liddicoat, T. Hajima, Y. Zhang, M. Rocher, C. Delire, R. Stéférián, V. Arora, L. Nieradzic, P. Anthoni, W. Thiery, **M. M. Laguë**, D. Lawrence, M. Lo. Global climate response to idealized deforestation in CMIP6 models. *Bio-geosciences*, 2020. DOI: 10.5194/bg-2020-229.
- C. M. Zarakas*, A. L. S. Swann, **M. M. Laguë**, K. C. Armour, J. T. Randerson. Plant Physiology Increases the Magnitude and Spread of the Transient Climate Response in CMIP6 Earth System Models. *Journal of Climate*, 33(19), 8561-8578, 2020. DOI: 10.1175/JCLI-D-20-0078.1; EarthArXiv Preprint EMGXB.
***Graduate student co-advised by M. M. Laguë & A. L. S. Swann**
- J. Kim*, **M. M. Laguë**, S. Pennypacker, E. Dawson*, A. L. S. Swann. Evaporative Resistance is of Equal Importance as Surface Albedo in High Latitude Surface Temperatures Due to Cloud Feedbacks. *Geophysical Research Letters*, 47(4). e2019GL085663 DOI: 10.1029/2019GL085663; EarthArXiv Preprint S5M4U.
***Undergraduate student co-advised by M. M. Laguë & A. L. S. Swann**
- M. M. Laguë** Quantifying the role of individual surface properties in atmospheric feedbacks and land-

atmosphere interactions. University of Washington. 2019. ProQuest PhD Dissertation.

M. M. Laguë, G. B. Bonan, and A. L. S. Swann. Separating the impact of individual land surface properties on the terrestrial surface energy budget in both the coupled and un-coupled land-atmosphere system. *Journal of Climate*, 32, 5725-5744, 2019. DOI: 10.1175/JCLI-D-18-0812.1.

A. L. S. Swann, M. M. Laguë, E. S. Garcia, J. P. Field, D. D. Breshears, D. J. P. Moore, S. R. Saleska, S. C. Stark, J. C. Villegas, D. J. Law, and D. M. Minor. Continental-scale consequences of tree die-offs in North America: identifying where forest loss matters most. *Environmental Research Letters*, 13(5): 55014, 2018. DOI: 10.1088/1748-9326/aaba0f.

M. M. Laguë and A. L. S. Swann. Progressive Mid-latitude Afforestation: Impacts on Clouds, Global Energy Transport, and Precipitation. *Journal of Climate*, 29(15):5561-5573, 2016. DOI: 10.1175/JCLI-D-15-0748.1.

M. Laguë, N. Tania, J. Heath, and L. Edelstein-Keshet. The effects of facilitation and competition on group foraging in patches. *Journal of Theoretical Biology*, 310:88-96, 2012. ISSN 00225193. DOI: 10.1016/j.jtbi.2012.06.024.

Publications Submitted/In Revision

M. M. Laguë, A. L. S. Swann, William R. Boos. Feedbacks on zonal mean tropical precipitation shifts induced by land surface change. *Accepted with Minor Revisions, Journal of Climate, 2021*. EarthArXiv Preprint.

Honours and Awards

Bold entries indicate awards from National or International competitions.

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|--------------|---|
| 2019 | Community Earth System Model 2019 Graduate Student Award, <i>National Center for Atmospheric Research</i>. http://www.cesm.ucar.edu/about/awards/2019.html |
| 2018-present | James S. McDonnell Foundation Postdoctoral Fellowship in Understanding Dynamic and Multi-scale Systems (Active Fellow from Fall 2019 - present) |
| 2016-2019 | National Science and Engineering Research Council of Canada Postgraduate Studies Doctoral Fellowship |
| 2018 | Andrew Slater Award for best student or postdoc presentation (Land Model Working Group Meeting), <i>National Center for Atmospheric Research</i> |
| 2017 | Husky 100 Award, <i>University of Washington</i> |
| 2017 | 3 rd Place, Peter B. Wagner Memorial Award for Women in Atmospheric Sciences |
| 2016 | Advanced Studies Program (ASP) Visiting Graduate Student Award, <i>National Center for Atmospheric Research</i> |
| 2013-2014 | National Science and Engineering Research Council of Canada Alexander Graham Bell Canadian Graduate Studies Fellowship/Postgraduate Studies Fellowship |
| 2013 | Rotary Youth Leadership Award, <i>Rotary International, District 5080</i> |
| 2011 | Undergraduate Student Research Award (Dept. of Mathematics), <i>University of British Columbia</i> |
| 2009-2012 | Chancellor's Scholarship, <i>University of British Columbia</i> |
| 2010 | Trek Excellence Scholarship, <i>University of British Columbia</i> |

2009	President's Scholarship, <i>University of British Columbia</i>
2009	Columbia Power Corporation Scholarship
2009	Chevron Canada/Molnar Bursary
2008	Premier's Excellence Award, Government of British Columbia (for the top graduating high school students in the province)
2008	BC Innovation Council / BC Science Teachers' Association Award
2008	Cranbrook Lion's Club Scholarship
2008	Tembec University Studies Scholarship
2008	Dogwood District/Authority Award
2008	Scholastic Distinction Scholarship (College of the Rockies)
2008	Joanne McWhirter/Helton Scholarship for Physics
2008	British Columbia Provincial Scholarship Award
2008	Top Academic Graduate Award, Mount Baker Senior Secondary

Presentations

<i>Invited Talk</i>	Land-Atmosphere Seminar Series, University of New South Wales, Australia <i>Virtual / Sydney, Australia</i>	2021
<i>Invited Talk</i>	Yale Earth System Science Seminar <i>Virtual / Yale, USA</i>	2021
<i>Invited Talk</i>	Scripps Institution of Oceanography Climate Journal Club, University of California San Diego, <i>Virtual / San Diego, CA, USA</i>	2021
<i>Invited Talk</i>	Physics of Oceans and Atmospheres Seminar, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University, <i>Virtual / Corvallis, OR, USA</i>	2021
<i>Talk</i>	Land Model Working Group Meeting, National Center for Atmospheric Research, <i>Virtual / Boulder, CO, USA</i>	2021
<i>Invited Talk</i>	Center for Hydrology, University of Saskatchewan, <i>Virtual / Coldwater Lab, Canmore, Alberta, Canada</i>	2020
<i>Invited Talk</i>	American Geophysical Union Fall Meeting, <i>Virtual / San Francisco, CA, USA</i>	2020
<i>Poster</i>	American Geophysical Union Fall Meeting, <i>Virtual / San Francisco, CA, USA</i>	2020
<i>Invited Talk</i>	Department of Atmospheric Sciences Seminar, University of Illinois at Urbana-Champaign, <i>Virtual / Champaign, IL, USA</i>	2020
<i>Invited Talk</i>	Stanford University CLimate, Atmosphere and Ocean Dynamics (CLAOD) Seminar, Stanford University, <i>Virtual / Stanford, CA, USA</i>	2020
<i>Talk</i>	Land Model Working Group Meeting, National Center for Atmospheric Research, <i>Boulder, CO, USA</i>	2020
<i>Poster</i>	Berkeley Atmospheric Sciences Center (BASC) Symposium, University of California, Berkeley <i>Berkeley, CA, USA</i>	2020
<i>Poster</i>	American Geophysical Union Fall Meeting, <i>San Francisco, CA, USA</i>	2019
<i>Invited Talk</i>	Department of Earth & Climate Science Distinguished Speaker Series, San Francisco State University, <i>San Francisco, CA, USA</i>	2019
<i>Invited Instructor</i>	Advanced Climate Dynamics Courses (ACDC, 2 lectures), <i>Yosemite, CA, USA</i>	2019
<i>Invited Talk</i>	Aspen Global Change Institute Land Use Meeting, <i>Snowmass, CO, USA</i>	2019
<i>Invited Talk</i>	24th Annual Community Earth System Model Workshop, National Center for Atmospheric Research, <i>Boulder, CO, USA</i>	2019
<i>Talk</i>	University of Washington Department of Atmospheric Sciences Colloquium (PhD Defence), <i>Seattle, WA, USA</i>	2019
<i>Invited Talk</i>	Seminar, Max Planck Institute for Meteorology, <i>Hamburg, Germany</i>	2019

<i>Invited Talk</i>	Seminar, Department of Earth & Planetary Science, University of California, Berkeley, <i>Berkeley, CA, USA</i>	2019
<i>Invited Talk</i>	Seminar, Department of Earth System Science, University of California, Irvine, <i>Irvine, CA, USA</i>	2019
<i>Invited Talk</i>	Climate & Global Dynamics Seminar, National Center for Atmospheric Research, <i>Boulder, CO, USA</i>	2019
<i>Invited Talk</i>	American Geophysical Union Fall Meeting, <i>Washington, D.C., USA</i>	2018
<i>Talk</i>	Advanced Climate Dynamics Courses Summer School, <i>Finse, Norway</i>	2018
<i>Talk</i>	23rd Community Earth System Model Workshop, National Center for Atmospheric Research, <i>Boulder, CO, USA</i>	2018
<i>Talk</i>	UW Program on Climate Change Spring Symposium, University of Washington, <i>Seattle, WA, USA</i>	2018
<i>Talk</i>	Land Model Working Group Meeting, National Center for Atmospheric Research, <i>Boulder, CO, USA</i>	2018
<i>Poster</i>	National Science Foundation Macrosystems Biology PI Meeting, <i>Washington, DC, USA</i>	2018
<i>Talk</i>	American Geophysical Union Fall Meeting, <i>New Orleans, LA, USA</i>	2017
<i>Invited Talk</i>	Ecological Society of America Annual Meeting, <i>Portland, OR, USA</i>	2017
<i>Talk</i>	Atmospheric Climate and Dynamics Seminar, UW Dept. of Atmospheric Sciences, <i>Seattle, WA, USA</i>	2017
<i>2 Talks</i>	22nd Community Earth System Model Workshop, National Center for Atmospheric Research, <i>Boulder, CO, USA</i>	2017
<i>Talk</i>	UW Program on Climate Change Spring Symposium, University of Washington, <i>Seattle, WA, USA</i>	2017
<i>Talk</i>	Land Model Working Group Meeting, National Center for Atmospheric Research, <i>Boulder, CO, USA</i>	2017
<i>Poster</i>	10th Annual Graduate Climate Conference, <i>Pack Forest, WA, USA</i>	2016
<i>Invited Talk</i>	National Oceanographic and Atmospheric Administration (NOAA), <i>Boulder, CO, USA</i>	2016
<i>Talk</i>	21st Community Earth System Model Workshop, National Center for Atmospheric Research, <i>Breckenridge, CO, USA</i>	2016
<i>Talk</i>	Land Model Working Group Meeting, National Center for Atmospheric Research, <i>Boulder, CO, USA</i>	2016
<i>Talk</i>	American Geophysical Union Fall Meeting, <i>San Francisco, CA, USA</i>	2015
<i>Talk</i>	University of Washington Department of Atmospheric Sciences Dynamics Seminar (Master's Defence), <i>Seattle, WA, USA</i>	2015
<i>Poster</i>	9th Annual Graduate Climate Conference, <i>Woods Hole, MA, USA</i>	2015
<i>Talk</i>	Graduate Student Seminar, Program on Climate Change, University of Washington, <i>Seattle, WA, USA</i>	2015
<i>Talk</i>	Land Model Working Group Meeting, National Center for Atmospheric Research, <i>Boulder, CO, USA</i>	2015
<i>Talk</i>	8th Annual Graduate Climate Conference, <i>Pack Forest, WA, USA</i>	2014
<i>Talk</i>	Undergraduate Student Research Award Seminar, University of British Columbia, <i>Vancouver, BC, Canada</i>	2012
<i>Poster</i>	Applied Mathematics Perspectives Mathematical Biology Workshop, University of Victoria, <i>Victoria, BC, Canada</i>	2012

Select Co-authored Presentations

- Talk* American Geophysical Union Fall Meeting: “Modeling Boreal Forest Expansion as a Driver of Accelerated Warming and Deglaciation following the Last Glacial Maximum ” by G. Shum, A. L. S. Swann, **M. M. Laguë**. *Virtual / San Francisco, CA, USA* 2020
- Poster* American Geophysical Union Fall Meeting: “How Much Does Plants’ Response to Elevated CO₂ Influence the Transient Climate Response? ” by C. Zarakas, **M. M. Laguë**, J. T. Randerson, K. Armour, A. L. S. Swann. *San Francisco, CA, USA* 2019
- Talk* American Geophysical Union Fall Meeting: “Can land management alter ecoclimate teleconnections across North America in the face of forest die-off? ” by X. Feng, Abigail L. S. Swann, D. D. Breshears, **M. M. Laguë**, J. P. Field, D. Law, A. Lien, T. Huang, J. Debridge, E. Baldwin, J. R. Soto, L. Lopez-Hoffman. *San Francisco, CA, USA* 2019
- Talk* American Geophysical Union Fall Meeting: “Can land management alter ecoclimate teleconnections across North America in the face of forest die-off? ” by X. Feng, Abigail L. S. Swann, D. D. Breshears, **M. M. Laguë**, J. P. Field, D. Law, A. Lien, T. Huang, J. Debridge, E. Baldwin, J. R. Soto, L. Lopez-Hoffman. *San Francisco, CA, USA* 2019
- Talk* The Future of Earth System Modeling: Biosphere and Land Surfaces (Caltech) “Flexible Complexity as a Tool for Understanding the Role of Land in the Earth System” by Abigail L. S. Swann, **M. M. Laguë**, G. B. Bonan. *Pasadena, CA, USA* 2018
- Talk* American Geophysical Union Fall Meeting: “Continental-scale consequences of tree die-offs in North America” by Abigail L. S. Swann, **M. M. Laguë**, E. S. Garcia, J. P. Field, D. D. Breshears, D. J. P. Moore, S. R. Saleska, S. C. Stark, J. C. Villegas, D. Law, D. Minor. *Washington, DC, USA* 2018
- Talk* American Geophysical Union Fall Meeting: “Quantifying the role that terrestrial ecosystems play in Earth’s climate” by Abigail L. S. Swann, **M. M. Laguë**, M. Kovenock. *Washington, DC, USA* 2018
- Poster* American Geophysical Union Fall Meeting: “Evaporative Resistance Equally Important as Albedo in High Latitudes Due to Cloud Feedbacks” by J. Kim, **M. M. Laguë**, E. J. Dawson, A. L. S. Swann. *Washington, DC, USA* 2018
- Poster* NSF Macrosystems Biology PI Meeting: “Ecoclimate Teleconnections” by A. L. S. Swann, **M. M. Laguë***, E. S. Garcia, D. D. Breshears*, J. P. Field, D. J. P. Moore, S. R. Saleska, S. C. Stark, J. C. Villeas, D. J. Law, D. M. Minor. *Washington, DC, USA*
*Presenting Authors. Note: this entry is co-listed in “Presentations” 2018
- Talk* American Geophysical Union Fall Meeting: “Does climate care about land?” by E. J. Dawson, **M. M. Laguë**, A. L. S. Swann. *New Orleans, LA, USA* 2017
- Talk* American Geophysical Union Fall Meeting: “Predicting Tree Mortality Die-off Events Associated with Hotter Drought and Assessing Their Global Consequences via Ecoclimate Teleconnections” by D. D. Breshears, C. D. Allen, N. G. McDowell, H. D. Adams, M. Barnes, G. Barron-Gafford, J. B. Bradford, N. Cobb, J. P. Field, R. Froend, J. B. Fontaine, E. S. Garcia, G. E. St. J. Hardy, T. E. Huxman, J. Kala, **M. M. Laguë**, A. Martinez-Yrizar, G. Matusick, D. M. Minor, D. J. P. Moore, M. Ng, K. X. Ruthrof, S. R. Saleska, S. C. Stark, A. L. S. Swann, J. C. Villegas, A. P. Williams, C. Zou. *New Orleans, LA, USA* 2017

Diversity, Equity, & Inclusion Activities

- 2014-2019 *Girls in Science instructor, Burke Museum of Natural History, Seattle, WA.* Helped lead 1-3 sessions per year of hands-on lab activities for middle-school aged girls in a women-only environment.

- 2014-2019 *University of Washington Department of Atmospheric Sciences Outreach Group.* Visited schools to give atmospheric science demos and short talks on weather/climate; led visiting school groups on tours of the UW Atmospheric Sciences Department rooftop observatory.
- 2016-2019 *Diversity and Inclusion Group at the Department of Atmospheric Sciences, University of Washington.* Founding member of a graduate-student led group (involving students, staff, and faculty) focussed on tackling projects relating to diversity, equity, and inclusion within our department; my particular focus was on arranging for counsellors to the department to give presentations and facilitate discussions relating to depression, anxiety, and mental health in graduate school.

Teaching Experience

- 2020 WESTERN WASHINGTON UNIVERSITY
Guest Lecturer: Forest loss and climate change for a “Global Change” graduate course.
- 2019 ADVANCED CLIMATE DYNAMICS COURSES (ACDC) SUMMER SCHOOL, YOSEMITE, CA
Invited Lecturer: Summer school theme: “The Anthropocene”. *Lectured on land-atmosphere interactions, climate controls on vegetation distributions, vegetation impacts on atmospheric processes, historical vegetation change, projections of future vegetation change, and how vegetation may interact differently with the climate under higher CO₂; discussed vegetation-atmosphere-climate interactions in the field.*
- 2017-2019 UNIVERSITY OF WASHINGTON, SEATTLE, WA
Guest Lecturer: *Advanced Physical Climatology* (graduate); *Ecological Climatology* (undergraduate/graduate); *Exploring the Atmospheric Sciences* (undergraduate)
- 2016 NATIONAL CENTER FOR ATMOSPHERIC RESEARCH, BOULDER, CO
Instructor: *CLM Tutorial - “Modifying the code in CLM” lecture; practical sessions.*
- 2014 UNIVERSITY OF WASHINGTON, SEATTLE, WA
Teaching Assistant: *Global Warming: Understanding the Issues* (undergraduate)
- 2012 UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER, BC
Teaching Assistant: *Differential Calculus* (undergraduate)

Grant Reviewer for:

National Science Foundation (Climate and Large-Scale Dynamics; Hydrologic Sciences) 2019, 2020

Journal Reviewer for:

Science	Journal of Climate
Nature	Journal of Geophysical Research - Atmospheres
Nature Climate Change	Geophysical Research Letters
Nature Geophysics	Geoscientific Model Development
Nature Communications	Global Planetary Change
Environmental Research Letters*†	Journal of Hydrometeorology
Current Climate Change Reports	Earth System Dynamics

* IOP Trusted Reviewer based on peer review quality

† Some of my reviews for ERL have been used in their new peer-reviewer online training course

Service & Outreach

- 2019 Instructor for the Advanced Climate Dynamics Courses summer school, *Yosemite, CA*
- 2014-2019 Girls in Science outreach program, Burke Museum of Natural History, *Seattle, WA*
- 2017-2019 Mentoring undergraduate & early graduate students in Atmospheric Science, *Seattle, WA*
- 2014-2019 Outreach activities with the UW Department of Atmospheric Sciences, *Seattle, WA*
- 2016-2019 Diversity and Inclusion Group, Department of Atmospheric Sciences, University of Washington, *Seattle, WA*
- 2016-2018 Founding member of the Program on Climate Change Graduate Student Steering Committee, University of Washington, *Seattle, WA*
- 2016 Chair of the 10th Annual Graduate Climate Conference (GCC10) Organizing Committee, *Seattle, WA*
- 2016 Community Land Model (CLM) 2016 Tutorial instructor, *Boulder, CO*
- 2010-2012 Undergraduate Mathematics Volunteer Tutoring, *Vancouver, BC, Canada*
- 2012 East Kootenay Regional Science Fair Judge, *Cranbrook, BC, Canada*

Programming Languages

- PYTHON (primary)
- FORTRAN 90, MATLAB, MAPLE, TCSH, BASH, NCL, NCO

Conferences & Workshops

- 2021 CESM Land Model Working Group Winter Meeting, National Center for Atmospheric Research
- 2020 Surface Atmosphere Integrated Field Laboratory (SAIL) Virtual Workshop.
- 2020 Grant Getting, Santa Fe Institute
- 2020 CESM Land Model Working Group Winter Meeting, National Center for Atmospheric Research, *Boulder, CO*
- 2020 Pathways to Scientific Teaching Workshop, University of California, Berkeley *Berkeley, CA*
- 2020 Berkeley Atmospheric Sciences Colloquium (BASC) Symposium, *Berkeley, CA*
- 2019 American Geophysical Union (AGU) Fall Meeting, *San Francisco, CA*
- 2019 Workshop on Entrenchment: "The Point of No Return", Santa Fe Institute, *Santa Fe, NM*
- 2019 "The Anthropocene", Instructor at the Advanced Climate Dynamics Courses (ACDC) Summer School, *Yosemite, CA*
- 2019 Impacts of Land Use and Land Management on Earth System Evolution, Biogeochemical Cycles, Extremes and Inter-Sectoral Dynamics, Aspen Global Change Institute, *Aspen, CO*
- 2019 Postdocs in Complexity Conference VI, Santa Fe Institute, *Santa Fe, NM*
- 2019 24th Community Earth System Model Workshop, National Center for Atmospheric Research, *Boulder, CO*
- 2019 Postdocs in Complexity Conference V, Santa Fe Institute, *Santa Fe, NM*
- 2019 CESM Land Model Working Group Winter Meeting, National Center for Atmospheric Research, *Boulder, CO*
- 2018 American Geophysical Union (AGU) Fall Meeting, *Washington, DC*
- 2018 Advanced Climate Dynamics Courses (ACDC) Summer School, *Finse, Norway*
- 2018 23rd Community Earth System Model Workshop, National Center for Atmospheric Research, *Boulder, CO*
- 2018 UW Program on Climate Change Spring Symposium, University of Washington, *Seattle, WA*

- 2018 CESM Land Model Working Group Winter Meeting, National Center for Atmospheric Research, *Boulder, CO*
- 2018 National Science Foundation Macrosystems Biology PI Meeting, *Washington, DC*
- 2017 American Geophysical Union (AGU) Fall Meeting, *New Orleans, LA*
- 2017 Stand Up for Science: Graduate Student Advocacy Training (Union of Concerned Scientists Workshop), *Seattle, WA*
- 2017 Ecological Society of America Annual Meeting, *Portland, OR*
- 2017 22nd Community Earth System Model Workshop, National Center for Atmospheric Research, *Boulder, CO*
- 2017 UW Program on Climate Change Spring Symposium, University of Washington, *Seattle, WA*
- 2017 CESM Land Model Working Group Winter Meeting, *Boulder, CO*
- 2017 American Meteorological Society Annual Meeting, *Seattle, WA*
- 2016 10th Annual Graduate Climate Conference, *Pack Forest, WA*
- 2016 21st Community Earth System Model Workshop, National Center for Atmospheric Research, *Boulder, CO*
- 2016 Ecosystem Demographics in the Earth System Workshop, National Center for Atmospheric Research, *Boulder, CO*
- 2016 Land Model Working Group Winter Meeting & Joint CESM Winter Meeting, National Center for Atmospheric Research, *Boulder, CO*
- 2015 American Geophysical Union (AGU) Fall Meeting, *San Francisco, CA*
- 2015 9th Annual Graduate Climate Conference, *Woods Hole, MA*
- 2015 Aosta Alpine Summer School, Course XXIII: Land-Atmosphere Interactions, Institute of Atmospheric Sciences and Climate (ISAC) – CRN (Turin, Italy) & the Centre national de la recherche scientifique (CNRS) – (France), *Valsavarenche, Aosta Valley, Italy*
- 2015 CESM Land Model Working Group Winter Meeting, National Center for Atmospheric Research, *Boulder, CO*
- 2014 8th Annual Graduate Climate Conference, *Pack Forest, WA*
- 2014 Community Land Model (CLM) Tutorial, National Center for Atmospheric Research, *Boulder, CO*
- 2011 Pacific Institute for the Mathematical Sciences - Applied Mathematics Perspectives Mathematical Biology Workshop, University of Victoria, *Victoria, BC, Canada*