

Michael S. Diamond

Curriculum Vitae

Education

- 2018–2020 **Doctor of Philosophy**, *University of Washington*, College of the Environment.
- Department: Atmospheric Sciences
 - Dissertation: On the role of natural laboratories and natural experiments in elucidating cloud-aerosol-climate interactions: A story of ships, smoke, and shutdowns
 - Committee: Robert Wood (Chair), Sarah Doherty (Reader), Paquita Zuidema (Reader), Christopher Bretherton, Shuyi Chen, & LuAnne Thompson (Graduate School Representative)
- 2018–2019 **Graduate Certificate in Climate Science**, *University of Washington*, Program on Climate Change.
- Capstone: Geoengineering as a means of teaching the fundamentals of climate change through problem-based learning
- 2015–2018 **Master of Science**, *University of Washington*, College of the Environment.
- Department: Atmospheric Sciences
 - Thesis: N_d or not N_d ? To what extent are biomass burning aerosols modulating cloud microphysics in the southeast Atlantic?
 - Committee: Robert Wood (Chair), Sarah Doherty, & Lyatt Jaeglé
- 2011–2015 **Bachelor of Arts**, *Vanderbilt University*, College of Arts & Science.
- Major: Earth & Environmental Sciences (Highest Honors)
 - Minor: Mathematics

Research Experience

- 2021–2022 **CIRES Visiting Postdoctoral Fellow**, *Advisor: Graham Feingold*, Chemical Sciences Laboratory, NOAA.
- Investigating cloud adjustments to aerosol perturbations within a southeast Atlantic shipping corridor under different background meteorological conditions using satellite retrievals and high resolution numerical modeling.
- 2015–2020 **Graduate Research Assistant**, *Advisor: Robert Wood*, Department of Atmospheric Sciences, University of Washington.
- Served in ground and assistant flight scientist roles for the 2016, 2017, and 2018 NASA ORACLES aircraft campaign deployments in Namibia and São Tomé e Príncipe.
 - Analyzed aircraft observations, satellite retrievals, and output from regional climate and large eddy simulation models to assess the influence of aerosol emissions from biomass burning and international shipping on clouds over the southeast Atlantic Ocean and the implications for regional and global climate.
- 2014–2015 **Honors Thesis**, *Advisor: Ralf Bennartz*, Department of Earth & Environmental Sciences, Vanderbilt University.
- Conducted research on how differences in sea surface temperature and precipitation anomalies between eastern and central Pacific El Niño events varied among observational datasets.

- 2012–2015 **Undergraduate Research Assistant**, *Advisor: Steven Goodbred*, BanglaPIRE Research Group, Vanderbilt University.
- Evaluated evidence of early Holocene "megaflood" events from the Tsangpo gorge through laboratory and idealized modeling work.
 - Participated in field work in rural Bangladesh studying salt water intrusion and differential subsidence between inhabited areas and the Sundarbans mangrove forest.
- 2012 **Undergraduate Research Assistant**, *Advisor: Daniel Morgan*, Department of Earth & Environmental Sciences, Vanderbilt University.
- Prepared samples of Antarctic granites for use in cosmogenic isotope dating.

Teaching Experience

- Fall 2020 **Organizer**, *ATM S 493/591: Justice and Equity in Academia and Beyond*, Department of Atmospheric Sciences, University of Washington.
- Instructor of record: Cecilia Bitz
 - Helped create and lead seminar series on issues of Justice, Equity, Diversity, and Inclusion in the Atmospheric Sciences and geosciences field more broadly.
 - Led two-week unit on Indigenous history, rights, and knowledge systems.
- Winter & Summer 2020 **Guest Lecturer**, *ATM S 220: Exploring the Atmospheric Sciences*, Department of Atmospheric Sciences, University of Washington.
- Instructors of record: Yue Dong (Winter), Samuel Pennypacker (Summer)
 - Lectured about clouds and climate, focusing on how clouds confound our ability to quantify equilibrium climate sensitivity (because of uncertain cloud feedbacks) and present-day radiative forcing due to human activities (because of uncertain aerosol-cloud interactions).
- Summer 2019 **Instructor of Record**, *ATM S 211: Climate & Climate Change*, Department of Atmospheric Sciences, University of Washington.
- Revamped curriculum to include a new dedicated unit on the carbon cycle, a discussion of the debate over "The Anthropocene" at the end of the paleoclimate units, and non-textbook materials like portions of the Intergovernmental Panel on Climate Change reports and the U.S. National Climate Assessment in all units.
 - Instituted weekly discussion periods where students presented on pre-selected scientific papers and excerpts from climate and ozone assessment reports.
 - Replaced in-class final examination with in-class presentations and final papers on a climate change mitigation or adaptation challenge of the students' choosing.
- 2018–2019 **Guest Lecturer**, *Frontiers of Science & AP Environmental Science*, Sammamish High School, Bellevue, Washington.
- Co-produced teaching materials with teachers Lisa Neshyba and Kristin Larson.
 - Created curriculum for teaching climate change through a problem-based learning module focused on the controversy over geoengineering proposals.
 - Developed interactive, simple planetary energy balance models for Earth or an exoplanet for in-class use during units on Earth's energy balance (Fall climate change unit) and planetary habitability (Spring astrobiology unit).
- Spring 2017 **Teaching Assistant**, *ATM S 211: Climate & Climate Change*, Department of Atmospheric Sciences, University of Washington.
- Instructor of record: Robert Wood
 - Created and graded homework assignments and exams, ran Quiz Sections, & held office hours.
 - Developed new interactive activities using outreach materials and publicly-available online models for use in Quiz Sections.

- Fall 2013 & 2014 **Teaching Assistant**, *EES 201: Global Climate Change*, Department of Earth & Environmental Sciences, Vanderbilt University.
- Instructor of record: Jonathan Gilligan
 - Graded homework assignments, held office hours, & gave one guest lecture on carbon budgets and the potential for a "carbon bubble."

Awards, Fellowships, & Honors

- 2021–2022 **CIRES Postdoctoral Visiting Fellowship**, *NOAA Earth Science Research Laboratory*.
- Competitive fellowship awarded by the Cooperative Institute for Research in Environmental Sciences at the University of Colorado Boulder to work with CIRES Fellows on campus and at the Boulder NOAA laboratories.
- 2020 **Best Student Oral Presentation**, *22nd Conference on Planned and Inadvertent Weather Modification*.
- Award given to the top student oral presentations at the 100th American Meteorological Society (AMS) Annual Meeting in Boston, MA.
- 2019 **NASA Group Achievement Award**, *ObseRvations of Aerosols above CLouds and their intEractionS (ORACLES) Team*.
- Prestigious NASA certificate awarded for an outstanding group accomplishment that has contributed substantially to NASA's mission.
- 2018–2020 **Duck Family Graduate Fellow in Environmental Politics & Governance**, *University of Washington Center for Environmental Politics*.
- Opportunity for a select group of graduate students from various disciplines to participate in colloquia and workshops focused on the study of environmental politics and governance.
- 2018 **Best Student Poster Presentation**, *15th Conference on Atmospheric Radiation*.
- Award given to the top student poster presentations at the 15th AMS Conference on Atmospheric Radiation in Vancouver, BC.
- 2018 **Husky 100 Honoree**, *University of Washington*.
- Recognition given annually to 100 outstanding undergraduate and graduate students who have demonstrated leadership, engaged with diverse communities, and made a difference on campus and in their communities.
- 2017–2020 **NASA Earth & Space Sciences Fellowship**, *Earth Science Division*.
- Competitive fellowship awarded to highly qualified graduate students in the earth sciences.
- 2017 **Best Student Oral Presentation**, *Ninth Symposium on Aerosol-Cloud-Climate Interactions*.
- Award given to the top student oral presentations at the 97th AMS Annual Meeting in Seattle, WA.
- 2016–2017 **PCC Graduate Fellowship**, *University of Washington Program on Climate Change*.
- Competitive fellowship awarded to students who show an interest in research problems related to climate science and a desire to participate in education and public outreach activities.
- 2015–2016 **AMS Graduate Fellowship**, *sponsored by NASA Earth Science*.
- Competitive fellowship awarded by the American Meteorological Society to outstanding prospective graduate students in atmospheric sciences or related fields.
- 2015 **Astrobiology Fellowship**, *University of Washington Astrobiology Program*.
- Opportunity to participate in courses, seminars, workshops, and research endeavors within the interdisciplinary University of Washington Astrobiology Program.
- 2015 **College of Arts & Science Banner Bearer**, *Vanderbilt University graduation*.
- Second highest honor awarded by the College of Arts & Science to a graduating senior.

- 2014 **Udall Scholarship**, *Morris K. Udall and Stewart L. Udall Foundation*.
 ○ Highly competitive federal scholarship awarded to students who display promise in careers related to the environment or tribal public policy.
- 2014 **Phi Beta Kappa**, *Alpha Chapter of Tennessee*.
- 2011–2015 **Cornelius Vanderbilt Scholarship**, *Vanderbilt University*.
 ○ Full tuition merit-based scholarship to attend Vanderbilt University in Nashville, TN.

Peer-Reviewed Publications

- 9 Redemann, Jens, and others including **M. Diamond** (2021). An overview of the ORACLE (ObseRvations of Aerosols above CLouds and their intERactionS) project: aerosol-cloud-radiation interactions in the Southeast Atlantic basin. *Atmospheric Chemistry and Physics*, 21, 1-56, doi:10.5194/acp-21-1-2021.
- 8 **Diamond, Michael**, & R. Wood (2020). Limited Regional Aerosol and Cloud Microphysical Changes Despite Unprecedented Decline in Nitrogen Oxide Pollution During the February 2020 COVID-19 Shutdown in China. *Geophysical Research Letters*, 47(17), e2020GL088913. doi:10.1029/2020GL088913
 ○ News coverage in outlets such as Forbes and the South China Morning Post
- 7 **Diamond, Michael**, H. Director, R. Eastman, A. Possner, & R. Wood (2020). Substantial Cloud Brightening from Shipping in Subtropical Low Clouds. *AGU Advances*, 1(1), e2019AV000111. doi:10.1029/2019AV000111
 ○ Editor's Highlight
 ○ News coverage in outlets such as Eos, Mongabay, Mel Magazine, and Wired
- 6 Pennypacker, Samuel, **M. Diamond**, & R. Wood (2020). Ultra-clean and smoky marine boundary layers frequently occur in the same season over the southeast Atlantic. *Atmospheric Chemistry and Physics*, 20, 2341-2351. doi:10.5194/acp-2019-628
 ○ Editor's Highlight
- 5 LeBlanc, Samuel, and others including **M. Diamond** (2020). Above Cloud Aerosol Optical Depth from airborne observations in the South-East Atlantic. *Atmospheric Chemistry and Physics*, 20, 1565-1590. doi:10.5194/acp-2019-43
- 4 **Diamond, Michael**, A. Dobracki, S. Freitag, J. Griswold, A. Heikkila, S. Howell, M. Kacarab, J. Podolske, P. Saide, & R. Wood (2018). Time-Dependent Entrainment of Smoke Presents an Observational Challenge for Assessing Aerosol-Cloud Interactions over the Southeast Atlantic Ocean. *Atmospheric Chemistry and Physics*, 18(19), 14623-14636, doi:10.5194/acp-18-14623-2018
- 3 Pickering, Jennifer, **M. Diamond**, S. Goodbred, C. Grall, J. Martin, L. Palamenghi, C. Paola, T. Schwenk, R. Sincavage, & V. Spieß (2018). Impact of glacial-lake paleofloods on valley development since glacial termination II: A conundrum of hydrology and scale for the lowstand Brahmaputra-Jamuna paleovalley system. *The Geological Society of America Bulletin*, 131(1-2), 58-70, doi:10.1130/B31941.1
- 2 Grosvenor, Daniel, and others including **M. Diamond** (2018). Remote sensing of droplet number concentration in warm clouds: A review of the current state of knowledge and perspectives. *Reviews of Geophysics*, 56, 409-453, doi:10.1029/2017RG000593
 ○ Editor's Highlight

- 1 **Diamond, Michael**, & R. Bennartz (2015). Occurrence and trends of eastern and central Pacific El Niño in different reconstructed SST data sets. *Geophysical Research Letters*, 42(23), 10,375-10,381, doi:10.1002/2015gl066469

Publications in Preparation/Under Review

Bates, Amanda, and others including **M. Diamond** (In review). Immediate Effects of the Anthropause on Nature and Conservation. *Science*.

Chang, Ian, S. Burton, H. Chen, **M. Diamond**, R. Ferrare, C. Flynn, L. Gao, M. Kacenelenbogen, S. LeBlanc, K. Meyer, K. Pistone, S. Schmidt, M. Segal-Rosenhaimer, Y. Shinozuka, J. Redemann, R. Wood, P. Zuidema, & S. Christopher (In review). Spatiotemporal heterogeneity of aerosol and cloud properties over the southeast Atlantic: An observational analysis. *Geophysical Research Letters*.

Chang, Ian, and others including **M. Diamond** (In prep.). Evaluating model grid-level aerosol optical depths from the NASA ORACLES aircraft measurements. *Atmospheric Chemistry and Physics Discussions*.

Christensen, Matthew, A. Gettelman, and others including **M. Diamond** (In prep.). Opportunistic Experiments for Aerosol Forcing *TBD*.

Pistone, Kristina, J. Redemann, R. Wood, P. Zuidema, **M. Diamond**, C. Flynn, S. LeBlanc, D. Noone, L. Pfister, J. Podolske, M. Segal-Rosenhaimer, & Y. Shinozuka (In review). Exploring the elevated water vapor signal associated with biomass burning aerosol over the southeast Atlantic Ocean. *Atmospheric Chemistry and Physics Discussions*.

Oral Presentations

Diamond, Michael, (October 2020). Natural laboratories and experiments in aerosol-cloud-climate interactions: A story of ships, smoke, and shutdowns. *PhD Defense during UW Department of Atmospheric Sciences Colloquium*. Seattle, WA.

Diamond, Michael, P. Blossey, R. Wood, M. Wyant, P. Saide, C. Howes, A. Fridlind, A. Ackerman, G. Feingold, J. Kazil, T. Yamaguchi, P. Zuidema, & J. Zhang (June 2020). SE Atlantic Sc-Cu Transition with Aerosol-Radiation-Rain Interactions. *DOE Atmospheric Radiation Measurement/Atmospheric System Research Principal Investigators Meeting*. Remote.

Diamond, Michael, P. Blossey, R. Wood, M. Wyant, P. Saide, C. Howes, A. Fridlind, A. Ackerman, P. Zuidema, G. Feingold, J. Kazil, & T. Yamaguchi (May 2020). Lagrangian view of the stratocumulus-to-cumulus transition in the presence of smoke and smoke-circulation interactions. *International Southeast Atlantic Workshop/ORACLES Science Team Meeting*. Miami, Florida (Remote).

Diamond, Michael (May 2020). What can (and can't) we learn about air quality & climate from COVID-19 impacts? *Program on Climate Change Spring Symposium Series*. Seattle, Washington (Remote).

Diamond, Michael, P. Blossey, R. Wood, M. Wyant, P. Saide, C. Howes, A. Fridlind, A. Ackerman, P. Zuidema, G. Feingold, J. Kazil, & T. Yamaguchi (April 2020). Modeling the Stratocumulus-to-Cumulus Transition in the Presence of Smoke: A case study from the 2017 ORACLES and CLARIFY campaigns. *Aerosols, Clouds, Precipitation and Climate (ACPC) Workshop*. Houston, Texas (Remote).

Diamond, Michael, H. Director, R. Eastman, A. Possner, & R. Wood (January 2020). Substantial cloud brightening from shipping in subtropical stratocumulus clouds. *100th Annual Meeting of the American Meteorological Society*. Boston, Massachusetts.

Diamond, Michael (December 2019). What can the inadvertent cloud modifications from global shipping tell us about the prospects for deliberate Marine Cloud Brightening? *Marine Cloud Brightening Scientific and Technical Research Meeting*. San Francisco, California. (Invited.)

Diamond, Michael, H. Director, R. Eastman, A. Possner, & R. Wood (December 2019). Substantial cloud brightening from shipping in subtropical stratocumulus clouds. *American Geophysical Union Centennial Fall Meeting*. San Francisco, California.

Diamond, Michael, P. Blossey, R. Wood, M. Wyant, A. Ackerman, A. Fridlind, H. Lee, P. Saide, H. Gordon, G. Feingold, J. Kazil, & T. Yamaguchi (June 2019). From fires in Africa to cloud transitions in the southeast Atlantic: Biomass burning aerosol effects on the stratocumulus-to-cumulus transition. *Goddard Institute for Space Studies Special Seminar*. NASA GISS, New York. (Invited.)

Diamond, Michael, H. Director, A. Possner, & R. Wood (June 2019). International shipping in the southeast Atlantic: A 'natural' experiment in Marine Cloud Brightening. *UW Center for Environmental Politics' Annual Duck Family Graduate Student Retreat*. Whidbey Island, Washington.

Diamond, Michael, H. Director, A. Possner, & R. Wood (May 2019). Substantial cloud brightening from shipping observed in south Atlantic stratocumulus using a universal kriging method. *ATM S 523 Seminar in Atmospheric Physics and Chemistry*. Seattle, Washington.

Diamond, Michael, H. Director, A. Possner, & R. Wood (May 2019). Substantial cloud brightening from shipping observed in south Atlantic stratocumulus using a universal kriging method. *Stanford University Climate Dynamics Seminar*. Remote lecture at Stanford University. (Invited.)

Diamond, Michael, P. Blossey, R. Wood, M. Wyant, P. Saide, H. Gordon, A. Ackerman, A. Fridlind, & J. Kazil (May 2019). Large eddy simulation of the stratocumulus to cumulus transition preceding the August 18, 2017, ORACLES-CLARIFY joint flight. *ORACLES Science Team Meeting 2019*. Miami, Florida.

Diamond, Michael, H. Director, A. Possner, & R. Wood (April 2019). Substantial cloud brightening from shipping observed in south Atlantic stratocumulus using a universal kriging method. *Aerosols, Clouds, Precipitation and Climate (ACPC) Workshop*. Nanjing, China.

Diamond, Michael (April 2019). The "mixing"/"mixed" mix-up and its implications for studying aerosol-cloud interactions in the southeast Atlantic. *AEROCLOSA/CLARIFY/LASIC/ORACLES Joint Meeting*. Paris, France.

Diamond, Michael, R. Wood, P. Saide, & the ORACLES Team (June 2018). Importance of accounting for entrainment history in quantifying aerosol-cloud interactions. *ORACLES Science Team Meeting 2018*. NASA Ames, California.

Diamond, Michael, S. Freitag, A. Heikkila, S. Howell, J. Griswold, P. Saide, & R. Wood (April 2018). Impact of cloud-top entrainment timescale on smoke-cloud interaction over the southeast Atlantic. *European Geosciences Union General Assembly 2018*. Vienna, Austria.

Diamond, Michael, R. Wood & the ORACLES Team (January 2018). N_d or not N_d ? To what extent are biomass burning aerosols modulating cloud microphysics in the southeast Atlantic? *Presentation to the UW Department of Atmospheric Sciences Committee on Graduate Studies*. Seattle, Washington.

Diamond, Michael, R. Wood, P. Saide, & the ORACLES Team (June 2017). Sensitivity of aerosol indirect effects to gap distance. *ORACLES Science Team Meeting 2017*. NASA Ames, California.

Diamond, Michael, R. Wood, & the ORACLES Team (January 2017). Entrainment and mixing of biomass burning aerosol into the Namibian stratocumulus cloud deck. *97th Annual Meeting of the American Meteorological Society*. Seattle, Washington.

Diamond, Michael, R. Wood, & S. LeBlanc (July 2016). Biomass burning aerosol detection in near real-time: How can MODIS and SEVIRI be used to aid mission planning in the field? *XVII International Conference on Clouds and Precipitation*. Manchester, United Kingdom.

Selected Poster Presentations

Diamond, Michael, & R. Wood (August 2020). Limited Regional Aerosol and Cloud Microphysical Changes Despite Unprecedented Decline in Nitrogen Oxide Pollution During the February 2020 COVID-19 Shutdown in China. *World Meteorological Organization Symposium on Climatological, Meteorological and Environmental Factors in the COVID-19 Pandemic*. Remote.

Diamond, Michael, & R. Wood (May 2020). Limited Regional Aerosol and Cloud Microphysical Changes Despite Unprecedented Decline in Nitrogen Oxide Pollution During the February 2020 COVID-19 Shutdown in China. *Japanese Geoscience Union-American Geophysical Union Joint Meeting*. Remote.

Diamond, Michael, & R. Wood (May 2020). Limited Regional Aerosol and Cloud Microphysical Changes Despite Unprecedented Decline in Nitrogen Oxide Pollution During the February 2020 COVID-19 Shutdown in China. *Japanese Geoscience Union-American Geophysical Union Joint Meeting*. Remote.

Diamond, Michael (September 2019). Did Eunice Newton Foote discover the greenhouse effect? *Program on Climate Change Summer Institute*. Friday Harbor Laboratories, San Juan Island, Washington.

Diamond, Michael, R. Wood, & P. Saide (December 2018). What's past is prologue? Can smoke circulation patterns in the days prior to an observation help us assess aerosol-cloud interactions in the southeast Atlantic? *American Geophysical Union Fall Meeting*. Washington, District of Columbia.

Diamond, Michael S. (November 2018). What drives the intraseasonal cycle of low cloud microphysics over the southeast Atlantic during the southern African biomass burning season? *12th Annual Graduate Climate Conference*. Pack Forest, Washington.

Diamond, Michael, & R. Wood (July 2018). Extratropical influence on the extent of biomass burning aerosol-cloud interactions in the southeast Atlantic. *American Meeting Society's 15th Conference on Atmospheric Radiation*. Vancouver, British Columbia.

Diamond, Michael, A. Dzambo, A. Douglas, R. Wood, T. L'Ecuyer, S. Durden, O. Sy, S. Tanelli, S. Freitag, S. Howell, N. Smirnow, J. Griswold, A. Heikkila, P. Saide & the ORACLES Team (December 2017). Precipitation and Entrainment Affect Smoke-Cloud Interactions in the Southeast Atlantic: Results from ORACLES-2016. *American Geophysical Union Fall Meeting*. New Orleans, Louisiana.

Diamond, Michael, R. Wood, & the ORACLES Team (November 2017). "Hot" off the presses: Initial results and impressions from the first and second seasons of a fire-smoke-cloud study in southern Africa. *11th Annual Graduate Climate Conference*. Woods Hole, Massachusetts.

Diamond, Michael, R. Wood, & the ORACLES Team (July 2017). N_d or not N_d ? How smoke transport pathways influence aerosol-cloud interactions in the southeast Atlantic. *Gordon Research Conference & Seminar*. Lewiston, Maine.

Diamond, Michael S., R. Wood, & the ORACLES Team (December 2016). Entrainment and mixing of biomass burning aerosol into the Namibian stratocumulus cloud deck. *American Geophysical Union Fall Meeting*. San Francisco, California.

Diamond, Michael S., R. Wood, & the ORACLES Team (October 2016). "Helter skelter" smoke transport and the mixing of biomass burning aerosol into the Namibian stratocumulus cloud deck. *10th Annual Graduate Climate Conference*. Pack Forest, Washington.

Leadership & Service Activities

- 2021 **Lead Convener**, *AMS Annual Meeting*.
- Lead convener and chair of the "Results from New Observations and Modeling Studies of Smoke-Cloud-Radiation-Climate Interactions in the Southeast Atlantic" oral and poster sessions within the 13th Symposium on Aerosol-Cloud-Climate Interactions.
- 2020 **Lead Convener**, *AGU Fall Meeting*.
- Lead convener and chair of the "Boundary Layer Clouds and Climate Change" oral, poster, and e-Lightning sessions.
- 2020 **Chair**, *Intersectional Sustainability Seed Grant Committee*.
- Led process to repurpose \$25,000 in UW Campus Sustainability Fund grants that went unused due to the COVID-19 pandemic to provide seed funding for projects at the intersection of racial and environmental justice.
- 2019–2020 **Graduate Student Member of Faculty Hiring Committee**, *UW Department of Atmospheric Sciences*.
- Read applications and helped develop rubric for scoring research, teaching, and diversity statements.
 - Organized graduate student meetings and interviews with faculty candidates and surveyed the graduate student body after each visit for feedback.
- 2018–2020 **Committee Member**, *UW Campus Sustainability Fund*.
- Stewarded a budget of over \$500,000 for student-led proposals to improve the environmental and social sustainability of the University of Washington's Seattle campus.
- 2018–2020 **Executive Senator**, *UW Graduate and Professional Student Senate*.
- Represented senator interests and provided budgetary and operational oversight on the Executive Committee of the Graduate and Professional Student Senate.

- 2018 **Co-Chair, Graduate Climate Conference (GCC).**
- Organized international climate conference run and attended solely by graduate students.
 - Expanded conference size from 90 to 120 students to accommodate growing interest.
 - Implemented proposal to include a remote organizer from MIT to better integrate the UW/MIT organizing communities (GCC switches between UW and MIT every other year).
 - Created Code of Conduct based on the American Geophysical Union's Scientific Integrity and Professional Ethics policy to ensure a meaningful and comfortable conference experience for all participants.
- 2017–2019 **Graduate Student Representative, UW Program on Climate Change (PCC).**
- Represented the interests of the graduate student community to the PCC Board.
- 2016–2020 **Senator for Atmospheric Sciences, UW Graduate and Professional Student Senate.**
- Authored resolutions relating to establishing a campus Sustainability Plan by 2020, ensuring international students are consulted on new fees, creating a senate seat for a representative of the Residential Community Student Association, and supporting new forms of progressive taxation to fund higher education.
 - As part of the Science & Policy Committee, organized a communications training for graduate students with professional facilitators from the Pacific Science Center.
 - As part of the Legislative Advisory Board, included increasing state support and funding for co-production of knowledge related to mitigating and adapting to climate change as part of the official legislative agenda.
 - As part of the Elections Committee, wrote an amendment to the bylaws that clarified procedures in the event of a tie vote in officer elections.
 - Served as a liaison to the College of the Environment Student Advisory Council.
- 2016–2020 **Diversity & Inclusion Group, UW Department of Atmospheric Sciences.**
- Participated in a working group that overhauled the application questions for graduate student admissions to be more inclusive (e.g., asking about resilience and drive in ways that could relate either to past research or other academic or personal endeavors).
 - Helped craft applications for participation in the AGU Bridge Program to increase the representation of African Americans, Hispanic Americans, and Native Americans in the Earth and planetary sciences.
 - Participated in the undergraduate mentoring program for three years.
- 2016–2020 **Climate Justice Speakers Bureau member, UAW 4121 Academic Employees Union.**
- Hold trainings to educate the labor community about climate change impacts and how proposed policy and technology changes may impact working people.
 - Organized public panel discussion including community leaders, labor organizers, adaptation specialists, clean energy and green technology leaders, and academics to discuss climate policy in Washington state.
 - Consulted on the science content of a resolution supporting labor-friendly climate policy adopted by the King County Labor Council and eventually the national AFL-CIO.
- 2016 **Communications Chair, Graduate Climate Conference.**
- Crafted the advertising emails and communications to conference-goers.
- 2016–2019 **PCC Graduate Student Steering Committee member, UW Program on Climate Change.**
- Hosted Graduate Student Seminars by and for graduate students to share work from different climate-related fields in a manner accessible to other climate scientists.
 - Organized a training with the Union of Concerned Scientists on how scientists and other experts can build relationships with local legislators, culminating in student meetings with five of the six University District state representatives and senators.

2015–2017 **Graduate Student Distinguished Visiting Lecturer coordinator**, *UW Department of Atmospheric Sciences*.

- Organized public and departmental lectures from a distinguished scientist selected by graduate student vote.
- Implemented a new careers-focused breakfast to increase the number of graduate students that could interact with the speaker beyond those that take individual meetings or join small-group meals.

Public-facing Writing

Diamond, Michael (July 2019). How do you solve a problem like (teaching) climate change? Through problem-based learning! *Program on Climate Change News & Blog*. <https://pcc.uw.edu/blog/2019/07/15/geoengineering-problem-based-learning/>

Diamond, Michael (October 2018). Chasing clouds and smoke over the southeast Atlantic. *NASA Earth Expeditions Blog*. <https://blogs.nasa.gov/earthexpeditions/2018/10/18/chasing-clouds-and-smoke-over-the-southeast-atlantic/>

Diamond, Michael (October 2018). Fires in Africa affect clouds and climate over the Atlantic Ocean. *Program on Climate Change Research Highlights*. <https://pcc.uw.edu/blog/research/fires-in-africa-affect-clouds-and-climate-over-the-atlantic-ocean/>

Diamond, Michael (March 2018). Drizzle drives seasonal aerosol changes in the northeast Pacific. *Program on Climate Change Research Highlights*. <https://pcc.uw.edu/blog/research/drizzle-drives-seasonal-aerosol-changes-in-the-northeast-pacific/>

Black, Taryn, **Michael Diamond**, & Emma Kahle (March 2018). Building Relationships to Promote Science-Based Decision Making. *Union of Concerned Scientists "The Equation" Blog*. <https://blog.ucsusa.org/science-blogger/building-relationships-to-promote-science-based-decision-making>

Diamond, Michael (December 2017). Experiencing the Antarctic through art: PCC grads go on a field trip. *Program on Climate Change News & Blog*. <https://pcc.uw.edu/blog/2017/12/01/experiencing-the-antarctic-through-art-pcc-grads-go-on-a-field-trip/>

Diamond, Michael (September 2017). Up in Smoke (and Clouds) over the Southeast Atlantic. *NASA Earth Expeditions Blog*. <https://blogs.nasa.gov/earthexpeditions/2017/09/13/up-in-smoke-and-clouds-over-the-southeast-atlantic/>

Diamond, Michael (September 2016). ORACLES in Flight. *NASA Earth Observatory Notes from the Field Blog*. <https://earthobservatory.nasa.gov/blogs/fromthefield/2016/09/07/oracles-in-flight/>