

## Eric P. Salathé Jr.

University of Washington Bothell • School of STEM

### Education

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Ph.D. in Geology and Geophysics, Yale University, 1994. (Dissertation Title: The Interaction of Upper-Tropospheric Water Vapor and the Earth's Radiation Field; Advisor: Prof. Ronald B. Smith)

B.A. with Honors in Physics, Swarthmore College, 1987.

### Positions Held

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Professor, School of Science Technology Engineering and Mathematics, University of Washington, Bothell. September 2023 to present.

Adjunct Professor, Department of Atmospheric Sciences, University of Washington. September 2023 to present.

Principal Scientist, Tsinghua University Innovation Center in Zhuhai. 2019-2021.

Associate Professor, School of Science Technology Engineering and Mathematics, University of Washington, Bothell. September 2014 to August 2023.

Adjunct Associate Professor, Department of Atmospheric Sciences, University of Washington. September 2014 to 2020

University of Washington Director, Northwest Climate Science Center. January 2013 to 2018.

Assistant Professor, School of Science Technology Engineering and Mathematics, University of Washington, Bothell. September 2010 to 2014.

Adjunct Assistant Professor, Department of Atmospheric Sciences, University of Washington. September 2010 to 2014.

Visiting Scientist, Chiang Mai University, Chiang Mai, Thailand. January 2009.

Senior Research Scientist/Research Scientist, JISAO/CSES Climate Impacts Group, University of Washington. August 1999 to August 2010.

Research Associate, Department of Atmospheric Sciences, University of Washington. July 1995 to July 1999.

National Research Council Associate, NASA Goddard Laboratory for Atmospheres. October 1993 to June 1995.

NASA Global Change Research Fellow, Yale University. September 1990 to September 1993.

### Publications

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Student and post-doctoral authors under my supervision are marked with an asterisk (\*).

Web of Science H-index=28; Google Scholar H-index=35

*As Associate Professor, UW Bothell:*

Salathé, E. P., Beggs, A., McJunkin, C., & Sandhu, S. (2023). The Relative Warming Rates of Heat Events and Median Days in the Pacific Northwest from Observations and a Regional Climate Model. *Journal of Climate*, 36(8), 2471–2481. <https://doi.org/10.1175/JCLI-D-22-0313.1>

Results from the summer 2021 UWB physics REU combining contributions from several student researchers.

Mass, CM, EP, Salathé, R Steed, and J Baars, 2022: The Mesoscale Response to Global Warming over the Pacific Northwest Evaluated Using a Regional Climate Model Ensemble. *J Climate*, 35(6), 2035–2053. [10.1175/JCLI-D-21-0061.1](https://doi.org/10.1175/JCLI-D-21-0061.1) [Mass 2022](#)

Major new paper on a new generation of regional climate simulations. Mass and Salathé contributed equally to writing and analysis; Steed and Baars performed model runs, data processing, and visualizations.

Lorente-Plazas\*, R., T. P. Mitchell, G. Mauger, and E. P. Salathé, 2018: Local Enhancement of Extreme Precipitation during Atmospheric Rivers as Simulated in a Regional Climate Model. *J. Hydrometeorol.*, **19**, 1429–1446, <https://doi.org/jhm-d-17-0246.1> [Lorente 2018](#)

Innovative analysis of regional features in the distribution of heavy precipitation around complex terrain. Results from project I lead as PI: Lorente-Plazas a post doc under my supervision performed analysis and primary writing, Mitchell and Mauger were supported on project and contributed to analysis and writing, Salathé provided overall direction and substantial text. **“Paper of Note,” Bulletin of the American Meteorological Society.**

Salathé, EP and GM Mauger, 2017: Climate Change, Heavy Precipitation and Flood Risk in the Western United States. In *Climate Change and its Impacts*, Leal Filho, W., C Murphy, P Gardoni (Eds). *Climate Change Management*, Springer. [http://faculty.washington.edu/salathe/Papers/Salathe\\_2017.pdf](http://faculty.washington.edu/salathe/Papers/Salathe_2017.pdf) [Salathe 2017](#)

Chapter in a book providing a broad interdisciplinary perspective on the impacts of climate change including social science, engineering, legal, indigenous, and philosophical perspectives.

Castro, C. L., H.-I. Chang, Q. Ding, R. Arritt, and E. Salathé, 2016: Toward a new paradigm of convective-permitting modeling in subseasonal-to-seasonal forecasting of warm season precipitation extremes. *US CLIVAR Variations*, Vol. 14, No. 4, US CLIVAR Project Office. <https://indd.adobe.com/view/9a7ca311-0948-449d-8a79-678aeb1d22ec> [Castro 2016](#)

Review paper outlining new directions in regional climate modelling.

Gonzalez-Abraham, R, J. Avise, S. H. Chung, B. Lamb, E. P. Salathé, Jr, C. G. Nolte, D. Loughlin, A. Guenther, C. Wiedinmyer, T. Duhl, Y. Zhang\*, D. G. Streets, 2015: The Effects of Global Change upon United States Air Quality. *Atmospheric Chemistry and Physics*, 15, 12645-12665, 2015. <https://doi.org/10.5194/acp-15-12645-2015> [Gonzalez-Abraham 2015](#)

Results of a large interdisciplinary study of climate change and air quality. I contributed new climate model projections, climate analysis, and contributed to writing.

Yasutake\*, B, N Simonson\*, J Woodring, N Duncan, W Pfeffer, HU Asuncion, M Fukuda, EP Salathé, 2015: Supporting Provenance in Climate Science Research, Proceedings of Seventh International Conference on Information, Process, and Knowledge Management (eKNOW). Best Paper Award. [Yasutake 2015](#)

Computer science student research project I co-advised at UW Bothell. Lead authors were MS students in CSS. Note that conference proceedings are the norm for reporting research results in computer science.

Moore, S.K., JA Johnstone\*, NS Banas, EP Salathé Jr., 2015: Present-day and future climate pathways affecting the harmful algal blooms species *Alexandrium catenella* in Puget Sound, WA, USA. *Harmful Algae*, **10**, 1-11. <https://doi.org/10.1016/j.hal.2015.06.008> [Moore 2015](#)

Results of a large interdisciplinary, multi-institution project coupling atmosphere, ocean, and ecological modelling. I was lead PI, provided new atmosphere-ocean simulations, and contributed to writing.

Warner\*, M. D., C. F. Mass, and E. P. Salathé Jr., 2015: Changes in Winter Atmospheric Rivers along the North American West Coast in CMIP5 Climate Models. *J. Hydrometeorol*, 16, 118–128.  
<https://doi.org/10.1175/JHM-D-14-0080.1> Warner 2012

Results from PhD project I co-advised and major paper on the primary mechanism of heavy precipitation on the West Coast.

Mauger GS, Y Bauman, TD Nennich, and EP Salathé: 2015 Impacts of Climate Change on Milk Production in the United States. *American Geographer*, 67, 121-131.  
<https://doi.org/10.1080/00330124.2014.921017> Mauger 2014

Results of multidisciplinary study I helped design combining economics, dairy cow physiology, and climate. Lead author was a Climate Impacts Group Post Doc I supervised.

Salathé, EP, AF Hamlet, CF Mass M Stumbaugh, S-Y Lee, R Steed, 2014: Estimates of 21st Century Flood Risk in the Pacific Northwest Based on Regional Scale Climate Model Simulations. *J. Hydrometeorology*. 15, 1881–1899. <https://doi.org/10.1175/JHM-D-13-0137.1> Salathe 2014

Major new paper on using regional climate model simulations to enable projections of future flood risk in Pacific Northwest rivers.

Liu, M., K. Rajagopalan, S. H. Chung, X. Jiang, J. Harrison, T. Nergui, A. Guenther, C. Miller, J. Reyes, C. Tague, J. Choate, E.P. Salathé, C.O. Stöckle, J. C. Adam, 2014: What is the importance of climate model bias when projecting the impacts of climate change on land surface processes? *Biogeosciences*, 11, 2601-2622. <https://doi.org/10.5194/bg-11-2601-2014>

Large multidisciplinary study examining best practices for using regional climate model simulations for agricultural and land-surface studies. I provided climate model simulations and analyses that were the basis of the study.

As Assistant Professor, UW Bothell:

Dulière\*, V, Y Zhang\*, EP Salathé, 2013: Changes in 20<sup>th</sup> century extreme temperature and precipitation over the western United States from regional climate model simulations and observations. *J Climate*, 26, 8556-8575. [Duliere 2013](#)

Chotamonsak\*, C, EP Salathé, J Kreasuwan, and S Chantara, 2012: Evaluation of Precipitation Simulations over Southeast Asia using a WRF Regional Climate Model. *Chiang Mai Journal of Science*, 34, 623-638. [Chotamonsak 2012](#)

Harvey, C. J., P. E. Moriarty, and E. P. Salathé Jr, 2012: Modeling climate change impacts on overwintering bald eagles. *Ecology and Evolution*, 2, 501-514.  
[Harvey 2012](#)

Avise, J., and Coauthors, 2012: Evaluating the effects of climate change on summertime ozone using a relative response factor approach for policymakers. *Journal of the Air & Waste Management Association*, 62, 1061-1074.  
[Avise 2012](#)

Warner\*, M. D., C. F. Mass, and E. P. Salathe, 2012: Wintertime Extreme Precipitation Events along the Pacific Northwest Coast: Climatology and Synoptic Evolution. *Monthly Weather Review*, 140, 2021-2043.  
[Warner 2012](#)

Gao, Y. H., L. R. Leung, E. P. Salathe, F. Dominguez, B. Nijssen, and D. P. Lettenmaier, 2012: Moisture flux convergence in regional and global climate models: Implications for droughts in the southwestern United States under climate change. *Geophys. Res. Lett.*, **39**.

[Gao 2012](#)

Zhang\*, Y. X., Y. Qian, V. Duliere\*, E. P. Salathe, and L. R. Leung, 2012: ENSO anomalies over the Western United States: present and future patterns in regional climate simulations. *Climatic Change*, **110**, 315-346.

[Zhang 2012](#)

Moore, S. K., N. J. Mantua, and E. P. Salathe, Jr., 2011: Past trends and future scenarios for environmental conditions favoring the accumulation of paralytic shellfish toxins in Puget Sound shellfish. *Harmful Algae*, **10**, 521-529.

[Moore 2011](#)

Duliere\*, V., Y. X. Zhang\*, and E. P. Salathe, 2011: Extreme Precipitation and Temperature over the U.S. Pacific Northwest: A Comparison between Observations, Reanalysis Data, and Regional Models. *J Climate*, **24**, 1950-1964.

[Duliere 2011](#)

Chotamonsak\*, C., E. P. Salathe, J. Kreasuwan, S. Chantara, and K. Siriwitayakorn, 2011: Projected climate change over Southeast Asia simulated using a WRF regional climate model. *Atmospheric Science Letters*, **12**, 213-219.

[Chotamonsak 2011](#)

*Prior to UW Bothell:*

Salathé, E. P., Y. Zhang\*, L. R. Leung, and Y. Qian, 2010: Regional Climate Model Projections for the State of Washington. *Climatic Change* **102**(1-2): 51-75, doi: 10.1007/s10584-010-9849-y.

[Salathe 2010](#)

Mote, P. and E.P. Salathé, 2010: Future climate in the Pacific Northwest. *Climatic Change* 102(1-2): 29-50, doi: 10.1007/s10584-010-9848-z.

[Mote Salathe 2010](#)

Chen, J., J. Avise, A. Guenther, C. Wiedinmyer, E. Salathe, R. B. Jackson, and B. Lamb, 2009: Future land use and land cover influences on regional biogenic emissions and air quality in the United States. *Atmospheric Environment*, **43**, 5771-5780.

[Chen 2009b](#)

Weaver, C. P., *et al.*, 2009: A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. *Bulletin of the American Meteorological Society*, **90**, 1843-1863.

[Weaver 2009](#)

Zhang\*, Y, V Dulière\*, P Mote, E.P. Salathé Jr., 2009: Evaluation of WRF and HadRM Mesoscale Climate Simulations over the United States Pacific Northwest. *J. Climate*, **22**, 5511-5526.

[Zhang 2009](#)

Avise, J., J. Chen, B. Lamb, C. Wiedinmyer, A. Guenther, E. Salathé, and C. Mass, 2009: Attribution of projected changes in US ozone and PM2.5 concentrations to global changes. *Atmos. Chem. Phys.*, **9**, 1111-1124.

[Avise 2012](#)

- Chen, J., J. Avise, B. Lamb, E. Salathé, C. Mass, A. Guenther, C. Wiedinmyer, J.-F. Lamarque, S. O'Neill, D. McKenzie, and N. Larkin, 2009: The effects of global changes upon regional ozone pollution in the United States. *Atmos. Chem. Phys.*, **9**, 1125–1141.  
[Chen 2009a](#)
- Salathé Jr, E. P., P. Zahn\*, R. Steed, and C.F. Mass. 2008. A high-resolution climate model for the United States pacific northwest: Mesoscale feedbacks and local responses to climate change. *J. Climate*, **21**, 5708–5726.  
[Salathe 2008](#)
- Mote, P., A. Hamlet, and E. Salathé, 2008: Has spring snowpack declined in the Washington Cascades? *Hydrol. Earth Syst. Sci.*, **4**, 2073-2110.  
[MoteHamletSalathe 2008](#)
- Salathé Jr, EP, PW Mote, MW Wiley, 2007: Considerations for selecting downscaling methods for integrated assessments of climate change impacts. *Int. J. of Climatology*, **27**, 1611-1621.  
[Salathe 2007](#)
- Salathé Jr, EP, 2006: Influences of a shift in North Pacific storm tracks on Western US regional climate under global warming. *Geophys. Res. Lett.*, **33**, L19820, doi:10.1029/2006GL026882.  
[Salathe 2006](#)
- Salathé Jr, EP. 2005: Methods for selecting and downscaling simulations of future global climate with application to hydrologic modeling. *International Journal of Climatology*, **25**, 419-436.  
[Salathe 2005](#)
- Salathé Jr, EP 2003: The effect of various precipitation downscaling methods on the simulation of streamflow in a rainshadow river basin, *Int. J. of Climatology*, **23**, 887-901.  
[Salathe 2003](#)
- Widmann, M, C. S. Bretherton, and E. P. Salathé, 2003: Statistical precipitation downscaling over the northwestern United States using numerically simulated precipitation as a predictor. *J. Climate*. **16**, 799-816  
[Widmann 2003](#)
- Garand, L, et al., 2001: Radiance and Jacobian intercomparison of radiative transfer models applied to HIRS and AMSU channels, *J. Geophys. Res.*, **106**, 24,017-24,031  
[Garand 2001](#)
- Contributing author, SPARC Assessment of Upper Tropospheric and Stratospheric Water Vapour. Edited by D. Kley, J.M. Russell, and C. Phillips. 2000.  
[SPARC 2000](#)
- Contributing author, The IPCC Scientific Assessment. Report of Working Group I of the Intergovernmental Panel on Climate Change (IPCC). 2000.
- Soden, B, et al., 2000: An intercomparison of radiation codes for retrieving upper-tropospheric humidity in the 6.3-micron band: a report from the 1st GVaP Workshop, *Bull. Amer. Meteorol. Soc.*, **81**, 797-808.  
[Soden 2000](#)
- Salathé Jr, EP and D L Hartmann, 2000: Subsidence and upper-tropospheric drying along trajectories in a general circulation model, *J. Climate*, **12**.  
[Salathe 2000](#)

- Salathé Jr, EP and D. L. Hartmann, 1997: A trajectory analysis of tropical upper-tropospheric moisture and convection. *J. Climate*, **10**, 2533-2547.  
[Salathe 1997](#)
- Salathé Jr, EP and R. B. Smith, 1996: Comparison of 6.7-micron radiances computed from aircraft soundings and observed from GOES-VAS. *J. Geophys. Res.*, **101**, 21,303-21,310  
[Salathe 1996](#)
- Salathé Jr, EP, D. Chesters, Y. Sud 1995: Evaluation of upper-tropospheric moisture climatology in a GCM using TOVS radiance observations. *J. Climate*, **8**, 2404  
[Salathe 1995b](#)
- Salathé Jr, EP. and D. Chesters, 1995: Variability of moisture in the upper troposphere, as inferred from TOVS satellite observations and ECMWF model analyses. *J. Climate*, **8**, 120.  
[Salathe 1995a](#)
- Salathé Jr, EP and R. B. Smith, 1992: In situ observations of temperature microstructure above and below the tropopause. *J. Atmos. Sci.*, **49**, 2032-2036.  
[Salathe 1992](#)
- Salathé Jr, EP et al., 1990: The foot as a shock absorber. *J. Biomechanics*. **23**, 655  
[Salathe 1990](#)
- Salathé Jr, EP et al., 1989: An application of beam theory to determine the stress and deformation of long bones. *J. Biomechanics*. **22**, 189.  
[Salathe 1989](#)
- Salathé Jr, EP et al., 1986: A biomechanical model of the foot. *J. Biomechanics*. **19**, 989.  
[Salathe 1986b](#)
- Salathé, EP and E. P. Salathé Jr., 1986: Transcapillary exchange during arteriolar vasomotion. *Microvascular Research*. **11**, 115.  
[Salathe 1986a](#)

### Select technical reports

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- Mauger, G.S., J.S. Won, K. Hegewisch, C. Lynch, R. Lorente Plazas, E. P. Salathé Jr., 2018. New Projections of Changing Heavy Precipitation in King County. Report prepared for the King County Department of Natural Resources. Climate Impacts Group, University of Washington, Seattle.  
<https://cig.uw.edu/news-and-events/publications/new-projections-of-changing-heavy-precipitation-in-king-county/>
- Salathé, E.P. Jr., Mauger, G. S., Mass, C. F., Steed R., and B. Dotson. 2015. Final Project Report: Regional Modeling for Windstorms and Lightning. Report prepared for Seattle City Light by the Climate Impacts Group, University of Washington, Seattle.  
<https://cig.uw.edu/publications/final-project-report-regional-modeling-for-windstorms-and-lightning/>
- Littell, J.S., Mauger, G.S., Salathé, E.P., Hamlet, A.F., Lee, S-Y., Stumbaugh, M., Elsner, M.M., Norheim, R.A., Lutz, E.R., Mantua, N.J. 2014. Uncertainty and Extreme Events in Future Climate and Hydrologic Projections for the Pacific Northwest: Providing a Basis for Vulnerability and Core/Corridor Assessments. Final report for Department of the Interior Pacific Northwest Climate Science Center. Climate Impacts Group, University of Washington, Seattle, WA.  
<https://cig.uw.edu/publications/uncertainty-and-extreme-events-in-future-climate-and-hydrologic-projections-for-the-pacific-northwest-providing-a-basis-for-vulnerability-and-corecorridor-assessments/>

## Recent Presentations

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Salathé, EP, N She, Z Bao: 2020. Developing high resolution downscale regional climate-hydro models to assess future flood risk in Sponge City Construction. 15th International Conference on Urban Drainage, Melbourne. Virtual event, September 2020.

[http://faculty.washington.edu/salathe/Papers/SalatheSheBao\\_2020.pdf](http://faculty.washington.edu/salathe/Papers/SalatheSheBao_2020.pdf)

She, N and Salathé, EP: 2021. Building a decision support platform of future food risk and water quality assessment for Sponge City Construction adapting climate change. World Environmental & Water Resources Congress. Virtual Event, June 7-11, 2021.

Invited speaker, 2020 International Conference “Climate Change, COVID-19, and Cities”. Pusan National University, Busan Korea. Virtual event.

Invited speaker, China Machinery International Engineering Design & Research Institute, Nov 13, 2018. Changsha, Hunan, China.

Invited lecture, Zhuhai City Planning Board and Meteorology Agency, Zhuhai, China. Nov 8, 2018.

Invited speaker, Chinese Meteorological Agency. Dec 2017. Beijing, China

Invited workshop speaker, Climate Change and its Impacts: Risks and Inequities. University of Illinois. March 2016.

Invited speaker, Asia-Pacific Economic Cooperation (APEC) Climate Workshop, October 2014, Nanjing, China.

## Funded research

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### *Current:*

CC\* Compute: A campus-wide computing resource for research and teaching at the University of Washington Bothell. National Science Foundation. PI: Salathé, coPIs: Joey Key Kristina Hillesland. \$399,996.  
09/01/2021 to 08/31/2023

Understanding the Mesoscale Response to Climate Change Using a Regional Climate Model Ensemble. National Science Foundation. PI: Salathé, coPI Clifford Mass. \$689,979  
06/01/2021 to 05/31/2024

### *Past:*

Actionable Science: Creating local climate change information to support adaptation planning. UWB SCRP. PI: Salathé. \$18,835.  
07/01/2020 to 06/30/2021

Sponge City Designs. Subaward from Guangzhou University to develop regional climate scenarios to support innovative urban design. PI: Salathé \$200,000.  
08/09/2018 to 08/08/2020

Department of Homeland Security: Critical Infrastructure Resilience Center of Excellence (PI). Budget: \$164,864.00 per year.  
07/01/2015 to 6/30/2017

Department of the Interior: Northwest Climate Science Center (UW PI). Total award: \$1,513,693.00 .  
09/23/2010 to 6/30/2017

Time of Emergence of Climate Change Signals in the Puget Sound Basin. US Army Corps of Engineers and EPA. \$358,000.  
04/01/2013 to 03/31/2015.

Uncertainty and extreme events in future climate and hydrologic projections for the Pacific Northwest: providing a basis for vulnerability and core/corridor assessments. USGS. \$150,000.

ECOHAB – Modeling favorable habitat areas for *Alexandrium catenella* in Puget Sound and evaluating the effects of climate changes. NOAA ECOHAB. \$741,779 + ship time (\$264,132) PI: Moore, NOAA/NFSC; UW Lead: Salathé.

Estimates of Changing Daily Precipitation Intensity and Flood Risk in the Pacific Northwest Using Regional Climate Simulations. US Army Corps of Engineers. \$170,000, April 2010-March 2011 (PI: Salathé).

Ensemble Analyses of the Impact and Uncertainties of Global Change on Regional Air Quality in the U.S. EPA STAR. \$313,256. Feb 2006 – Apr 2012. (PI: Salathé)

Confronting Climate Change Health Risks in the Pacific Northwest, CDC. (PI: Richard Fenske)

Modeling the Effects of Climate Change and Variability on the Pacific Northwest: Mesoscale Processes and Climate Impacts. NSF Climate Dynamics. \$393,778, Jan 2007 – May 2011. (PI: Salathé)

Distributed computing project: Pacific Northwest regional climate change. Microsoft Research. \$172,926. (PI: Salathé). Nov 2007-April 2011.

Integrating mesoscale downscaling with hydrologic and process models in the Pacific Northwest. NOAA Climate Dynamics and Environmental Prediction (CDEP). \$225,000. PI: Miles, Co-PI: Salathé.

## Teaching

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*Recent courses taught at UW Bothell:*

### A. Physics

#### BPHYS 450 Computational Physical Modelling.

A new course I developed for the Physics program. The course introduces numerical and computational methods for solving problems in modern physics. Classes are organized around new techniques with student's actively building new computer models.

#### BPHYS 317 Mathematical Physics

A standard component of the Physics curriculum. I have updated the approach with active in-class modules to apply new mathematical techniques to physics problems and to incorporate computational tools as needed.

#### BPHYS 121 Mechanics Laboratory

#### BPHYS 122 Electromagnetism and Oscillatory Motion

The introductory sequence includes large lecture classes, typically 70+ students, and smaller lab sections.

### B. Earth System Science (ESS)

#### BEARTH 320 Impacts of Climate Change

#### BEARTH 155 Introduction to Climate Science

I have developed and taught two classes focused on climate change as part of the Earth System Science major. An introductory course that serves as an entry to the ESS major and an upper-level course that takes a more interdisciplinary approach to the impacts of climate change on human and natural systems.



<b>Term</b>	<b>Course</b>	<b>Short Title</b>
Spring 2023	BEARTH 310 A	Weather and Climate
Winter 2023	B PHYS 450 A	Computational Physics
Autumn 2022	BEARTH 320 A	Climate Impacts
Autumn 2022	BEARTH 155 A	Intro Climate Sci
Spring 2022	B PHYS 317 A	Math Physics
Winter 2022 (COVID)	B PHYS 450 A	Computational Modelling
Autumn 2021 (COVID)	BEARTH 320 A	Climate Impacts
Summer 2021 (COVID)	BEARTH 155 A	Intro Climate Sci
Spring 2021 (COVID)	BEARTH 155 A	Intro Climate Sci
Spring 2021 (COVID)	B PHYS 499 B	
Spring 2021 (COVID)	B PHYS 317 A	Math Physics
Winter 2021 (COVID)	BEARTH 320 A	Climate Impacts
Winter 2021 (COVID)	B PHYS 450 A	Computational Physics
Autumn 2020 (COVID)	BEARTH 155 A	Intro Climate Sci
Summer 2020 (COVID)	BEARTH 155 A	Intro Climate Sci
Spring 2020 (COVID)	BEARTH 155 A	Intro Climate Sci
Spring 2020 (COVID)	B PHYS 317 A	Math Physics
Winter 2020 (COVID)	B PHYS 450 A	Computational Physics
Winter 2020 (COVID)	BEARTH 155 A	Intro Climate Sci
Autumn 2019	BEARTH 320 A	Climate Impacts
Spring 2019	BST 200 A	Intro Climate Sci
Spring 2019	B PHYS 317 A	Math Physics
Winter 2019	BST 200 A	Intro Climate Sci
Winter 2019	B PHYS 450 A	Computational Physics
Autumn 2018	B PHYS 121 BB	Mechanics Lab
Autumn 2018	B PHYS 121 BA	Mechanics Lab
Summer 2018	BST 200 A	Intro Climate Sci
Spring 2018	B PHYS 122 A	Elmag & Oscil Motn
Spring 2018	BST 200 A	Intro Climate Sci
Winter 2018	B CLIM 320 A	Climate Impacts
Winter 2018	B ENGR 310 A	Computational Modelling
Autumn 2017	B ENGR 310 A	Computational Modelling
Spring 2017	B PHYS 122 A	Elmag & Oscil Motn
Winter 2017	B ENGR 310 A	Computational Modelling
Winter 2017	B CLIM 320 A	Climate Impacts
Autumn 2016	B ENGR 310 A	Computational Modelling
Winter 2016	B CLIM 320 A	Climate Impacts
Winter 2016	B ENGR 310 A	Computational Modelling
Winter 2016	B ME 498 C	
Autumn 2015	B ENGR 310 A	Computational Modelling
Spring 2015	B CLIM 320 A	Climate Impacts
Winter 2015	STMATH 308 A	Matrix Algebra
Winter 2015	B ENGR 310 A	Computational Modelling

## **Service**

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For most of the past 8 years, my service has focused on building the programs and faculty of the new School of STEM, primarily by creating the new Earth System Science degree and serving on numerous faculty search committees. Other committee assignments include:

1. Physical Sciences Division, Earth System Science Academic Oversight Committee, current.
2. School of STEM Faculty Council, current.
3. UW Bothell Writing Council, current.
4. Tri-Campus Hyak Governing Board, current.
5. STEM Diversity Equity and Inclusion Committee, (AY 2019-20)
6. STEM Salary Equity Study, 2020.

## **Contact information**

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