

URSULA JONGBLOED

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EDUCATION

- Expected 2025 PhD – Atmospheric Sciences, *University of Washington, Seattle, WA*
- 2019–2022 MS – Atmospheric Sciences, *University of Washington, Seattle, WA*
Thesis: Preindustrial volcanic sulfate aerosol is underestimated in the Arctic: implications for radiative forcing
- 2014–2018 BA – Earth Sciences (High Honors), Chemistry, *Dartmouth College, Hanover, NH*
Thesis: Long-term Trends and Sources of Atmospheric Pollution in the North Pacific Region

PROFESSIONAL EXPERIENCE

- 2019–present PhD student and researcher, *University of Washington, Seattle, WA*
Investigating sources and chemistry of Arctic sulfate aerosols using ice-core sulfur isotope measurements and GEOS-Chem chemical transport model to study gaps in understanding.
- 2018–2019 Research Assistant, *ICF Consulting Inc., Washington, D.C.*
Perform research, analysis, and writing to support a variety of projects for the EPA's Stratospheric Protection Division.
- 2016–2018 Undergraduate researcher, *Dartmouth College, Hanover, NH*
Completed a senior thesis that was recognized with high honors studying atmospheric pollution in the North Pacific region. Worked in ice-core laboratory analyzing ice cores from Antarctica, Greenland, and Alaska using ion chromatography and mass spectrometry (ICP-MS).
- 2015–2016 Undergraduate researcher, *U. S. Geological Survey, Menlo Park, CA*
Contributed to a 21-year study on selenium pollution in the San Francisco Bay Estuary. Collected *Potamocorbula amurensis* and analyzed selenium concentrations using an ICP-MS.

PUBLICATIONS & PRESENTATIONS

- 2022 paper **Jongbloed, U.**, Schauer, A., Cole-Dai, J., Larrick, C., Salimi, S., Edouard, S., Geng, L., Alexander, B. (2021). Industrial-era decline in Arctic MSA is offset by increased biogenic sulfate aerosol. *Geophys. Res. Lett.*, in prep.
- 2022 paper **Jongbloed, U.**, Schauer, A., Cole-Dai, J., Larrick, C., Fischer, T. B., Carn, S., Wood, R., Salimi, S., Edouard, S., Geng, L., Alexander, B. (2021). Underestimated passive volcanic degassing implies overestimated aerosol forcing. *Nature Geoscience*, submitted.
- 2022 talk **Jongbloed, U.**, Schauer, A., Cole-Dai, J., Larrick, C., Fischer, T. B., Carn, S., Wood, R., Salimi, S., Edouard, S., Alexander, B. (2021). Underestimated passive volcanic degassing implies overestimated aerosol forcing. Ice Core Open Science Meeting, La Jolla, CA (talk).
- 2022 talk **Jongbloed, U.**, Schauer, A., Cole-Dai, J., Larrick, C., Fischer, T. B., Carn, S., Wood, R., Salimi, S., Edouard, S., Alexander, B. (2021). Underestimated passive volcanic degassing implies overestimated aerosol forcing. International GEOS-Chem Conference 10, St. Louis, MO (poster).
- 2021 talk **Jongbloed, U.**, Schauer, A., Cole-Dai, J., Larrick, C., Fischer, T. B., Carn, S., Wood, R., Salimi, S., Edouard, S., Alexander, B. (2021). Preindustrial volcanic emissions are underestimated in climate models: what does this mean for Arctic climate? American Geophysical Union Fall Meeting, New Orleans, LA (talk).

- 2021 *talk* **Jongebloed, U.**, Schauer, A., Salimi, S., Edouard, S., Larrick, C., Cole-Dai, J., Alexander, B. (2021). Ice Core Record Indicates Arctic Volcanic Sulfate Aerosols Are Underestimated by Emissions Inventories. Air Pollution in the Arctic: Climate, Environment and Societies (PACES), virtual. (talk).
- 2017 *poster* **Jongebloed, U.**, Osterberg, E., Kreutz, K., Campbell, S., Wake, C., Saylor, P., Winski, D., Handley, M., Ferris, D. (2017). Elevational and Spatial Gradients of Atmospheric Metal Pollution in the North Pacific. American Geophysical Union Fall Meeting, New Orleans, LA (poster).
- 2016 *poster* **Jongebloed, U.**, Stewart, A.R., Kleckner, A. (2016). Elevated selenium levels follow unprecedented drought in San Francisco Estuary. Bay Delta Science Conference, Sacramento, CA (poster).

TEACHING EXPERIENCE

- 2021-2022 Lead Teaching Assistant, *UW Atmospheric Sciences Department*
Served as main resource to prepare graduate student TAs for each academic quarter.
Transformed new TA orientation to better meet TA needs and received positive feedback.
- 2021 Teaching Assistant, *ATM S 358: Fundamentals of Atmospheric Chemistry*
Held office hours and weekly homework review sessions. Received strong positive feedback from students for explaining concepts and encouraging them in the course and beyond.
- 2021 Teaching Assistant, *ATM S 111: Global Warming: Understanding the Issues*
Created and graded homework assignments and exams, ran Quiz Sections, and held office hours. Received exceptional student reviews for enthusiasm and clarity of explanations.

OUTREACH & LEADERSHIP

- 2021-2022 Graduate Student Representative, *UW Program on Climate Change (PCC)*
Represented graduate students to the PCC board.
- 2020-2022 PCC Graduate Student Steering Committee member, *UW Program on Climate Change (PCC)*
Organized graduate student seminars on climate change research from a range of topics. Led recruitment to ensure representation from diverse backgrounds on the committee.
- 2020-2022 Outreach Coordinator, *UW Atmos Outreach Program*
Organized and participated in presentations on climate change and other topics for local K12 schools and senior living communities. Facilitated partnership with GEARUP, an organization that partners with local high schools with low rates of college attendance.
- 2020 Committee Member, *UW Intersectional Sustainability Seed Grant Committee*
Awarded funds from budget of \$25,000 for student-led proposals on projects related to racism and environmental justice in the greater Seattle Community

HONORS & AWARDS

- 2022 Certificate of Distinguished Service, *Atmospheric Sciences Department, University of Washington*
- 2019 Top Scholar Award, *UW College of the Environment*
- 2018 High Honors, *Earth Sciences Department, Dartmouth College*
- 2017 James O. Freedman Presidential Scholar, *Dartmouth College*