

# Clinton Alden

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[Github](#)  
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## EDUCATION

**Doctor of Philosophy, Civil Engineering** **March 2025 - 2028 (expected)**  
*University of Washington, Mountain Hydrology Research Group*

Selected Coursework: Physical Hydrology, Geospatial Data Analysis, Snow Modeling

**Master of Science, Civil Engineering** **September 2023 - March 2025**  
*University of Washington, Mountain Hydrology Research Group*

GPA: 3.87

Thesis: *The Impact of Warming Temperatures on Snowpack Structure*

**Bachelor of Science, Atmospheric Sciences** **Aug 2019 - May 2023**  
*University of Utah*

GPA: 3.80

Selected Coursework: Snow and Avalanche Dynamics, Atmospheric Dynamics, Physical Meteorology, Numerical Weather Prediction

## WORK EXPERIENCE

**Graduate Research/Teaching Assistant** **Sep 2023 - Present**  
*University of Washington, Department of Civil and Environmental Engineering* *Seattle, Washington*

- Teaching Assistant for Data Analysis in Water Sciences, Fall 2025
- Graduate Research Assistant in Professor Jessica Lundquist's Mountain Hydrology Research Group

**Applied Hydrometeorological Consulting** **Jan 2026 - Present**  
*Clinton Alden Consulting* *Remote*

- Advise private-sector clients on the quality, limitations, and appropriate use of meteorological and hydrologic datasets
- Provide technical guidance on best practices for environmental data analysis

**Avalanche Awareness Instructor** **Sep 2024 - Present**  
*Northwest Avalanche Center* *North Bend, Washington*

- Taught avalanche awareness classes to the general public, discussing snow and weather
- Both classroom and field-based instruction to audiences of all ages

**Forecaster/Co-Founder** **Nov 2025 - Present**  
[CascadeMountainWeather.com](https://www.CascadeMountainWeather.com) *Remote*

- Co-founded and led forecasting for a mountain weather and snow information platform
- Produce regular synoptic- and mesoscale-scale forecast discussions for a public audience
- Develop and maintain automated weather model visualization and real-time dashboards

**Lab Assistant - Atmospheric Sciences***UC San Diego, Center for Western Weather and Water Extremes (CW3E)***Jun 2022 - Aug 2023***Remote*

- Conducted research on atmospheric rivers and cloud properties using MODIS-Terra satellite observations, working with Dr. Minghua Zheng
- Supported ensemble sensitivity guidance for C-130 and NOAA G-IV dropsonde missions during the Atmospheric River Reconnaissance campaign

**Teaching Assistant***University of Utah, Department of Atmospheric Sciences***December 2021 - May 2023***Salt Lake City, Utah*

- Teaching assistant for undergraduate atmospheric science courses (Atmos 1000; instructor: Prof. Jim Steenburgh)
- Led office hours, graded coursework, and supported instruction for 250 students
- Assisted with field-based instruction for Atmos 5260 (Snow and Avalanche Dynamics) in the Wasatch Mountains

**PRESENTATIONS****Department of Civil and Environmental Engineering Seminar**

12 February 2026

*University of Washington*

"From SWE to Ski: Placing the 2026 Washington Snowpack in Historical Context"

**Computer Science for the Environment**

27 January 2026

*eScience Institute, University of Washington*

"Is that a cloud? Snow-cloud discrimination using geostationary satellites"

**Northwest Snow and Avalanche Workshop**

25 October 2025

*Northwest Avalanche Center*

"Turning Your World Upside Down: Atmospheric temperature inversions and their impacts on snow conditions"

**Northwest Snow and Avalanche Workshop**

26 October 2024

*Northwest Avalanche Center*

"Reading Between the Layers: What will our snowpack look like with climate change?"

**32nd Conference on Weather Analysis and Forecasting**

19 July 2023

*American Meteorological Society*

"An Overview of a Heavy Precipitation Event over California in October 2021: Roles of an Extreme Atmospheric River and Explosive Extratropical Cyclone"

**Yampa Basin Rendezvous**

23 September 2022

*Center for Western Weather and Water Extremes*

Atmospheric river impacts in the Yampa Basin

**CW3E Friday Science Seminar**

16 September 2022

*Center for Western Weather and Water Extremes*

Atmospheric river impacts in Northern California

**MEDIA OUTREACH**11 February 2026 - KUOW National Public Radio Seattle - ["The snow flaked on us this year. That's got meteorologists worried"](#)5 January 2026 - Seattle Weekly - ["Flood science: How December's atmospheric river soaked Washington"](#)18 January 2024 - The Mercury News - ["Dangerous avalanches linked to one weird night - and what you need to know to stay safe"](#)