

Clinton Alden

(858) 344-9193
Seattle, Washington
cdalden@uw.edu
Github
LinkedIn

EDUCATION

Doctor of Philosophy, Civil Engineering <i>University of Washington, Mountain Hydrology Research Group</i>	March 2025 - 2028 (expected)
Selected Coursework: Physical Hydrology, Geospatial Data Analysis, Snow Modeling	
Master of Science, Civil Engineering <i>University of Washington, Mountain Hydrology Research Group</i>	September 2023 - March 2025
GPA: 3.87	
Thesis: <i>The Impact of Warming Temperatures on Snowpack Structure</i>	
Bachelor of Science, Atmospheric Sciences <i>University of Utah</i>	Aug 2019 - May 2023
GPA: 3.80	
Selected Coursework: Snow and Avalanche Dynamics, Atmospheric Dynamics, Physical Meteorology, Numerical Weather Prediction	

WORK EXPERIENCE

Graduate Research/Teaching Assistant <i>University of Washington, Department of Civil and Environmental Engineering</i>	Sep 2023 - Present <i>Seattle, Washington</i>
• 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 <i>Clinton Alden Consulting</i>	Jan 2026 - Present <i>Remote</i>
• 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 <i>Northwest Avalanche Center</i>	Sep 2024 - Present <i>North Bend, Washington</i>
• 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 <i>CascadeMountainWeather.com</i>	Nov 2025 - Present <i>Remote</i>
• 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 OUTREACH11 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](#)"