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CONSULTING METEOROLOGIST

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Education

University of North Dakota

Aug 2024

- Master of Science in Atmospheric Sciences

State University of New York at Oswego

May 2022

- Bachelor of Science in Meteorology, *summa cum laude*

Work History

Forensic Weather Consultants, LLC

Aug 2024 to Present

- Provides weather consulting services for incidents and accidents that are the subject of insurance claims, lawsuits, disputes, etc. Clients range from single-member law firms or public adjusters to the largest insurance companies in the world.
- Conducts in-depth, site-specific meteorological analyses, prepares detailed written reports, client consultations, site surveys/visits, depositions and expert testimony.
- Completes data gathering, map, and file generation.
- Quality-controls meteorological observations, records, and data.
- Generates maps and plots of meteorological variables and information.
- Works closely with federal government agencies (NCEI, NWS) and FWC clients.

Graduate Student Liaison to the National Weather Service

Aug 2023 to Aug 2024

- Enhanced collaboration on research-to-operations projects between NWS Grand Forks, NWS Bismarck, and the University of North Dakota Atmospheric Sciences Department.
- Facilitated research, internship, and volunteer opportunities for students.
- Expanded partnerships with tribal organizations and the local community.

- Conducted high-resolution idealized numerical model simulations of supercell thunderstorms to identify what role cold pools play in modifying storm dynamics.
- Statistically analyzed trends in snow water equivalent from Snow Telemetry observation stations in Colorado.
- Assimilated rawinsonde data while performing statistical corrections to improve analysis and forecasting of meteorological parameters.
- Individually taught laboratory-based courses for undergraduates in Introductory Meteorology, Meteorological Instrumentation, and Advanced Synoptic Meteorology.
- Developed laboratory experiments to conceptually visualize atmospheric principles.

Office of Learning Services at SUNY Oswego

Aug 2021 to May 2022

- Assisted students with homework and exam preparations for complex topics related to meteorology and environmental sustainability.

SUNY Oswego, Dept. of Atmospheric and Geological Sciences

Feb 2021 to Jul 2022

- Compared wind velocity data from an offshore observational tower in the Baltic Sea to output from a high-resolution numerical model to improve the mean accuracy of forecasted wind velocities within the planetary boundary layer.
- Analyzed satellite, radar, and rawinsonde data from the COMBLE field campaign to create a climatology of cold-air outbreaks.
- Performed high-resolution numerical model simulations to assess the structure and development of Polar Lows in the Norwegian Sea.
- Determined the necessary forcing mechanisms for a convergence band to produce lake effect snow along the southeast corner of Lake Ontario.

Lake Effect Storm Prediction and Research Center

Nov 2019 to Apr 2021

- Provided accurate and timely forecasts to local school districts and the New York State Department of Transportation (NYSDOT).
- Created detailed snowfall maps with area forecast discussions and multiple hour-to-hour point forecasts.

Meteorology Highlights

Spring Convection Workshop, NWS Grand Forks

May 2024

- Attended an interactive lecture session on using dual-pol radar analysis to forecast hail, low-topped supercells, severe wind, and flash flooding.

NOAA Hazardous Weather Testbed Spring Forecast Experiment

May 2024

- Invited to the week-long program hosted by the Storm Prediction Center and National Severe Storms Laboratory to evaluate the Warn-on Forecast System, Unified Forecast System, AI-based numerical weather prediction emulators, and deterministic and ensemble convection-allowing models.

Radar Workshop, Central Iowa Severe Storms and Doppler Radar Conference**Mar 2023**

- Analyzed and warned severe storms using GRAE dual-pol products in a “live” forecast experiment led by NWS Des Moines forecasters.

SUNY Oswego Storm Forecasting and Observation Program**May 2022 to Jun 2022**

- Presented daily weather briefings and convective outlooks.
- Launched and analyzed rawinsonde data in the pre-convective environment.

COOP Observer for OSWN6**Aug 2021 to May 2022**

- Recorded daily temperature and precipitation measurements at the OSWN6 (Oswego East) COOP station in Oswego, New York.

Awards and Certifications

Certified SKYWARN Storm Spotter**Jun 2025**

- Trained and certified as a SKYWARN Storm Spotter by the National Weather Service.
- SKYWARN was established by the National Weather Service and partner organizations to develop a network of trained severe weather spotters.

Outstanding Graduate Student Teaching Assistant Award**Apr 2024**

- Awarded by the University of North Dakota Department of Atmospheric Sciences Faculty.

AMS Best Student Oral Presentation, 2nd Place Award**Feb 2024**

- Awarded at the American Meteorological Society 104th Annual Meeting within the 1st Symposium on Cloud Physics by a panel of judges.

Meteorology Honors**May 2022**

- Awarded by the State University of New York at Oswego Atmospheric and Geological Sciences Faculty.

Outstanding Senior in Meteorology Award**May 2022**

- Awarded by the State University of New York at Oswego Atmospheric and Geological Sciences Faculty.

SUNY Oswego Forecast Challenge, 1st Place Award**Dec 2021**

- Obtained the highest aggregated accuracy of forecasted values of temperature, winds, precipitation, and hazard location out of 15+ students, faculty, and deterministic models.

Professional Organizations

American Meteorological Society	2022 to Present
• Active member.	
Claims and Litigation Management Alliance	2025 to Present
• Active member.	
Property and Liability Resource Bureau (PLRB)	2025 to Present
• Active member.	
Windstorm Insurance Network	2025 to Present
• Active member.	

Professional Presentations

Invited Guest Speaker, SUNY Oswego Meteorology Club	Oct 2025
• Investigating the Atmosphere: From Graduate Research to Forensic Meteorology	
M.S. Thesis Defense	Aug 2024
• Cold Pool Impacts on Supercell Thunderstorm Development and Updraft Characteristics	
American Meteorological Society 104th Annual Meeting	Feb 2024
• Cold Pool Impacts on Supercell Thunderstorm Development and Updraft Characteristics	
12th Annual Great Lakes Atmospheric Sciences Symposium	Nov 2021
• Idealized Modeling of Lake Effect Precipitation Bands	
12th Annual Great Lakes Atmospheric Sciences Symposium	Nov 2021
• Characteristics and Climatology of Arctic Cold-Air Outbreaks Observed from COMBLE	