Megan R. Schiede

Department of Atmospheric and Environmental Sciences
University at Albany, SUNY, ETEC-438
1220 Washington Avenue, Albany, NY, 12210 | mschiede@albany.edu

Personal Website: atmos.albany.edu/student/mschiede/
Linkedin: linkedin.com/in/megan-schiede
Github: github.com/megschiede

EDUCATION

Ph.D., Atmospheric Science In Progress
University at Albany, State University of New York
Dissertation: *TBD*
Advisor: Dr. Justin Minder

M.S., Atmospheric Science August 2024
University at Albany, State University of New York
Thesis: *Using airborne measurements to evaluate forecasts of freezing drizzle aloft: results from the WINTRE-MIX campaign*
Advisor: Dr. Justin Minder

B.S., Atmospheric Science (Honors) | B.S., Mathematics - *Magna Cum Laude* May 2022
University at Albany, State University of New York

RESEARCH AND EXPERIENCE

Research Assistant May 2024-Present
University at Albany, Dept. of Atmospheric & Environmental Sciences

- Performing numerical weather prediction simulations using WRF and UFS systems.
- Analyzing observational datasets, with an emphasis on aircraft data, from the WINTRE-MIX field campaign.

Teaching Assistant August 2022-May 2024
University at Albany, Dept. of Atmospheric & Environmental Sciences

- Aided professors with classroom duties.
- Graded homework assignments and exams.
- Conducted regularly scheduled office hours to assist students outside of the classroom environment.

ATM 211: Weather Analysis and Forecasting Spring 2024
ATM 400: Synoptic Meteorology Fall 2023
ATM 315: Environmental Statistics and Computation Spring 2023
ATM 316: Dynamic Meteorology 1 Fall 2022

Undergraduate Research Assistant March 2021-May 2022
University at Albany, Dept. of Atmospheric & Environmental Sciences
Advisor: Dr. Kristen Corbosiero

- Composed climatology of TS days reported by various ASOS stations across the US over 5 years (2015-2020).
- Evaluated data from the National Lightning Detection Network (NLDN) to assess the accuracy of METAR observations.
- Utilized NASA GEOS-5 measurements of Aerosol Optical Thickness (AOT) along with ERA-5 Reanalysis data to analyze various meteorological parameters to draw adequate conclusions.

Student Research Intern April 2021-August 2021
NASA Student Airborne Research Program (SARP)
Advisor: Dr. Don Blake (UC Irvine)
Presentation: youtube.com/watch?v=sA0uap-kddk

- Developed a research project that utilized whole air sampling data processed by the Rowland-Blake Lab.
- Deduced logical explanations for observed trends using various techniques.
- Examined scientific and legal literature to acquire an understanding of technical information that applied to this investigation.
- Performed air sampling campaign across hometown to add additional data to the collection of SARP data.

ORAL PRESENTATIONS

Schiede, M. R., and J. R. Minder, 2025: Using airborne measurements to evaluate HRRR forecasts of freezing drizzle aloft: results from the WINTRE-MIX campaign, 25th Conference on Aviation, Range, and Aerospace Meteorology, 105 AMS Annual Meeting, 12–16 January, New Orleans, Louisiana.

Schiede, M. R., and J. R. Minder, 2024: Using airborne measurements to evaluate HRRR forecasts of freezing drizzle aloft: results from the WINTRE-MIX campaign, FAA Icing Tools Workshop, 17–19 September, Boulder, Colorado.

Schiede, M. R., and J. R. Minder, 2024: Using airborne measurements to evaluate HRRR forecasts of freezing drizzle aloft: results from the WINTRE-MIX campaign, Northeastern Storm Conference, 8–10 March, Burlington, Vermont.

Schiede, M. R., and J. R. Minder, 2023: Using airborne measurements to evaluate HRRR forecasts of freezing drizzle aloft: results from the WINTRE-MIX campaign, Northeast Regional Operational Workshop XXIV, 14–15 November, Albany, New York.

Schiede, M. R., and J. R. Minder, 2023: Using airborne measurements to evaluate HRRR forecasts of freezing drizzle aloft: results from the WINTRE-MIX campaign, FAA Icing Tools Workshop, 8–10 August, Boulder, Colorado. [Remote]

Schiede, M. R., D. Blake, A. Jarnot, 2021: A COVID Conundrum: An investigation into Enhanced Methyl Chloroform Concentrations, Northeast Regional Operational Workshop XXII, 9–10 November, Albany, New York.

POSTER PRESENTATIONS

Schiede, M. R. and J. R. Minder, 2023: Using airborne measurements to evaluate HRRR forecasts of freezing drizzle aloft: results from the WINTRE-MIX campaign. 28th Conference on Numerical Weather Prediction (NWP), 17–21 July, Madison, Wisconsin.

HONORS & AWARDS

First Place, Best Student Presentation 25th Conference of Aviation, Range, and Aerospace Meteorology, 105th AMS Annual Meeting 2025

Bhanwar Lal Bahethi Scholarship, American Meteorological Society 2021

Arthur Loesch Scholarship, The University at Albany Foundation 2021

LEADERSHIP AND ADDITIONAL EXPERIENCE

UAlbany DAES Tutoring Service September 2022-Present
Tutor

New York State Weather Risk Communication Center Hiring Committee January 2025-April 2025
Meteorologist Hiring Committee Member

NOAA Hydrometeorology Testbed Winter Weather Experiment (WWE) 2024, 2025
Participant

UAlbany DAES Recruitment Committee December 2024-March 2025
Primary Student Representative

UAlbany DAES Graduate Student Organization June 2023-June 2024
President

UAlbany DAES Graduate Planning Committee September 2022-May 2023
First-year Representative

SKILLS

Programming: Python, Java, Linux/Unix
Software: GitHub, ArcGIS/QGIS, Geoda, Microsoft Word/Excel/Powerpoint

PROFESSIONAL AFFILIATIONS

American Meteorological Society November 2020-Present