

MICHELLE R. SPENCER

CONTACT

Current Address

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EDUCATION

- 2022-Present** **University of Oklahoma, Ph.D., Meteorology**
- 2020-2021** **University of Wisconsin – Milwaukee, M.S., Atmospheric Sciences**
- 2019** **Metropolitan State University of Denver, B.S., Meteorology**
Minor: Mathematics

PROFESSIONAL EXPERIENCE

- 2022-Present** **University of Oklahoma – School of Meteorology**
Graduate Research Assistant, Advisors: Dr. Petra Klein (OU-SoM) and Dr. Elizabeth Smith (NSSL)
I am currently working to investigate the role of land/sea breeze interaction with aerosols in connection with convection initiation in the Houston area as a part of the TRACER project.
- 2020-2021** **University of Wisconsin – Milwaukee – Atmospheric Sciences**
Graduate Research Assistant, Advisor: Dr. Clark Evans
My research focused on quantifying the influence of sea-surface temperature uncertainty on cool-season severe weather events in conjunction with the VORTEX-SE project.
- 2021** **Atlantic Oceanographic and Meteorological Laboratory**
NOAA Lapenta Intern
I conducted a research project investigating the effects of tropical cyclones on upper ocean characteristics in the northern Atlantic Ocean. Continuation of this work is still being conducted.

2019 **National Weather Center**
Research Experience for Undergraduates Intern
I completed a research project concerning the heterogenous structure of the nocturnal low-level jet and its possible influence on convection initiation. Continuation of this work is still being conducted.

HONORS AND AWARDS

2018-2019 **Rottman Memorial Scholarship**
Metropolitan State University of Denver

ADDITIONAL EXPERIENCE

2019-Present **Student Member**
Symposium on Measurements Observations and Instrumentation (SMOI)
Committee of the American Meteorological Society

2019 **Learning Assistant**
I worked as an assistant to classes (Weather Observing Systems, Climatology, and Atmospheric Dynamics), which included tutoring students, assisting teachers with lecture, and assisting students with labs.

2018-2019 **Vice President**
Student Chapter of the American Meteorological Society at Metropolitan State University of Denver

PRESENTATIONS EXPERIENCE

2022 **Annual Conference of the American Meteorological Society**
"The Influence of Mesoscale Sea-Surface Temperature Uncertainty on Short-Range Forecasts of Cold-Season Southeast US Severe Weather Events"

2021 **Annual American Geophysical Union Conference**
"Direct Measurements of the Upper Ocean Response to Tropical Cyclones in the Tropical North Atlantic"

2021 **Annual Conference of the American Meteorological Society**
"The Influence of Mesoscale Sea-Surface Temperature Uncertainty on Short-Range Forecasts of Cold-Season Southeast United States Severe Weather Events"

2020 **Annual Conference of the American Meteorological Society**
"Exploring Great Plains Nocturnal Low-Level Jet Heterogeneity and Connections to Convection Initiation"

- 2019** **Research Experience for Undergraduates – National Weather Center**
“Exploring Great Plains Nocturnal Low-Level Jet Heterogeneity and Connections to Convection Initiation”
- 2019** **Annual Conference of the American Meteorological Society – Student Conference Poster Session**
“Comparison of GFS and NAM Weather Numerical Prediction Models in Predicting Tornado Outbreaks”

TECHNICAL SKILLS

IDV (proficient), Kaleidagraph (proficient), Python (working knowledge), MATLAB (working knowledge), Weather Research and Forecast (WRF) Model (working knowledge), LINUX (working knowledge), HPC platforms (basic knowledge), LaTeX (basic knowledge)