

Kyle Eskew

Education

University of Oklahoma

BACHELOR OF SCIENCE IN METEOROLOGY with a minor in mathematics
Anticipated Graduation: May 2025

Norman, Oklahoma
GPA: 4.0

Dayton Regional STEM School

Graduated May 2021

Kettering, Ohio
GPA: 4.0/4.0

Experience

WFO Summer Student Volunteer

NATIONAL WEATHER SERVICE

June 2023 – present
Wilmington, Ohio

- ◆ Co-issue area forecast discussions, forecast grid updates, and climate products
- ◆ Prepare, release, and monitor upper-air data from weather balloons; working to become upper-air certified
- ◆ Interface with the public during severe weather operations to obtain storm reports and disseminate forecast information
- ◆ Staff regular operational shifts and assist in routine and non-routine duties, such as damage surveys and facility tours

Honors Research Assistant

CENTER FOR EARTH OBSERVATION AND MODELING

January 2022 – present
Norman, Oklahoma

- ◆ Obtain eddy-covariance flux tower methane, precipitation, temperature, and net ecosystem exchange measurements
- ◆ Aggregate and analyze satellite remote sensing MODIS data from various wetland sites to understand methane fluxes
- ◆ Create Python programs to process large environmental datasets and produce publication-quality graphics
- ◆ Prepare my material for publication in a peer-reviewed scientific journal as well as for poster and oral presentations

Wright Scholar Research Assistant

AIR FORCE RESEARCH LABORATORY: SENSORS DIRECTORATE

June 2020 – July 2020
Wright-Patterson Air Force Base

- ◆ Collaborated with a peer to develop MATLAB programs to integrate satellite geolocation data into AFRL databases
- ◆ Performed data integrity analyses to ensure the accuracy of sensor interference simulations
- ◆ Produced briefing materials and a methodology report to establish a uniform approach for certain program calculations
- ◆ Created MATLAB data visualization programs to assist with sensor performance evaluations

Social Media Intern

DAYTON REGIONAL STEM SCHOOL

August 2019 – May 2020
Kettering, Ohio

- ◆ Produced, edited, and posted social media content for fundraising efforts, recruitment, and STEM outreach
- ◆ Coordinated community highlight and engagement efforts with school partners, administration, faculty, and staff
- ◆ Collaborated with a small student team to ensure engagement on all platforms and a consistent posting schedule

High School Research Intern

WRIGHT STATE UNIVERSITY TERAHERTZ AND ULTRAFAST PHOTONICS RESEARCH GROUP

June 2018 – August 2018
Dayton, Ohio

- ◆ Developed MATLAB programs to perform time-domain spectroscopy analysis and display resulting data visually
- ◆ Conducted laboratory ultrafast terahertz laser experiments to probe the properties of a graphene sample
- ◆ Wrote an unpublished paper to summarize applicable literature and discuss experiment results (after Aug. 2018)

Honors & Awards

Dr. Kenneth Crawford Award in Measurements, May 2023 – Recognizes the class's top student in meteorological measurements

NOAA Ernest F. Hollings Scholarship, April 2023

President's Award for Outstanding Sophomores, April 2023 – Highest honor bestowed to sophomores by the university

President's Award for Outstanding Freshmen, April 2022 – Highest honor bestowed to freshmen by the university

University College PACE Award, April 2022 – Recognizes the top one percent of freshmen in academics, leadership, and service

University College Ann Balch Award, April 2022 – Recognizes several top freshmen, selected from PACE Award recipients

American Meteorological Society Freshman Undergraduate Scholarship Awardee, April 2021

National Merit Scholar, February 2021

Ohio Attorney General - Recognition of Service Award, June 2020