

# Amanda Novak

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## EDUCATION

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### UNIVERSITY OF OKLAHOMA, Norman, OK

*Bachelor of Science in Meteorology, Minors in Computer Science & Mathematics, Expected Graduation: May 2021*

- Overall GPA: 3.95

## PROFESSIONAL EXPERIENCE

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### RADAR OPERATIONS CENTER, Norman, OK

*Student Meteorologist Intern, June 2018 – present*

- Performed case studies on radar precipitation products.
- Used past radar data to test radar algorithms such as MRLE and METSIGNAL.
- Created a code to assist in data analysis concerning MSF number within radars.
- Overall learned how weather radar works and focused on basic software involved in analyzing past data.

### SCHOOL OF METEOROLOGY, Norman, OK

*Undergraduate Research Assistant, July 2020 – present*

- Working on a research project utilizing machine learning techniques for forecast busts in the European Forecast Model

### STATE COLLEGE WEATHER FORECAST OFFICE, State College, PA

*Ernest F. Hollings Scholar Intern, May 2020 – July 2020*

- Completed a research topic titled: “Identification of Radar Characteristics, Thermodynamic Environments, and Mesoscale Setups that Support Convection with Damaging Wind in Central Pennsylvania,” and presented results
- Performed data analysis to characterize storms

### COLLEGE OF AEROSPACE AND MECHANICAL ENGINEERING, Norman, OK

*Undergraduate Research Assistant, Jan 2020 – July 2020*

- Worked on a research project titled: “Wind Field Reconstruction using Quadcopter Drones”
- Created algorithms in MATLAB to simulate a LiDAR and wind field reconstruction.

## LEADERSHIP EXPERIENCE

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### STUDENT CHAPTER OF THE AMERICAN METEOROLOGICAL SOCIETY AND NATIONAL WEATHER ASSOCIATION

*President, May 2020 – Present:* Responsible for overseeing a local chapter of AMS and NWA with over 100 members.

*Junior Representative, May 2019– May 2020:* Liaison between the executive board and the Junior class as well as helping out at general meetings.

*Member, August 2017 – Present*

### OKLAHOMA WEATHER LAB

*Shift Leader, January 2019– Present:* Lead a weekly forecasting shift for 13 OK counties as well as a podcast, a FB discussion post, and a long-term & short-term discussion post on the website. Included a one-hour teaching segment weekly.

*Deputy Director of Development, May 2019 – May 2020:*

Helped create the new Oklahoma Weather Lab website.

*Member, August 2017 – Present*

### STUDENT AMBASSADOR

August 2018– Present: Talked to prospective students about the Meteorology program at the University of Oklahoma

## AWARDS

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### Awards:

- NOAA Ernest F. Hollings Undergraduate Scholarship • AMS Senior Named Scholarship (K. Vic Ooyama) • Bob Glahn Statistical Meteorology Scholarship • Second Alternate to AGS Outstanding Senior • OU Award of Excellence • OU School of Meteorology Scholarship • President’s List • Dean’s List