

# Megan M. Varcie

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## Education

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**University of Illinois at Urbana-Champaign** | Champaign, IL Anticipated May 2021

M.S. in **Atmospheric Science**

Advisor: Bob Rauber | Funded through **IMPACTS** field campaign

**Purdue University** | West Lafayette, IN May 2019

B.S. in **Atmospheric Science** | Minor: **Sociology**

Cumulative GPA: 3.65/4.0 | Dean's List & Semester Honors: 6 of 8 Semesters

## Skills and Certifications

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**Certifications:** NWS Upper Air Certification

**Programming Languages:** Python, R, MATLAB

**Forecasting Tools:** AWIPS, GFE

## Professional Experience

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**Pathways Student Intern** | **National Weather Service** Summer 2019 - Present

*White Lake, MI*

- Obtained Upper Air Certification
- Coordinated project related to perception of hazardous weather events among vulnerable outdoor populations
  - Vulnerable Outdoor Populations: An Evaluation of the Decision to Take Protective Action (2019)
- Collaborated with National Weather Service partners

**Graduate Teaching Assistant** | **University of Illinois at Urbana-Champaign** Fall 2019

- ATMS 100: Introduction to Meteorology

**Undergraduate Teaching Assistant** | **Purdue University** Fall 2017

- EAPS 100: Planet Earth

**Student Volunteer** | **National Weather Service** Summer 2016, Summer 2017

*White Lake, MI*

- Conducted two research projects:
  - Evaluation of Doppler-based tornado warnings (2017)
  - Local study of convective activity surrounding Detroit Metro Airport (2016)
- Collected and documented trained weather spotter reports in official NWS text products

## Research Experience

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### Graduate Research | University of Illinois at Urbana-Champaign

August 2019 - present

- IMPACTS field campaign | Advisor: Bob Rauber

### Undergraduate Research | Purdue University

January 2016 - May 2019

- Analysis of winter precipitation trends based on ASOS reports | Advisor: Dr. Michael Baldwin
- Evaluation of Doppler-based tornado warnings | Advisor: Dr. Ernest Agee
  - Presented results at Purdue Undergraduate Research Symposium

## Presentations

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### Oral Presentations

Manion, A., **Varcie, M.**, 2019: Wind, Waves, and Weather. NOAA Sea Grant Cruise, Lake Erie Metropark, MI.

**Varcie, M.**, Agee, E., 2019: Evaluation of Doppler-based tornado warnings. University of North Dakota, Grand Forks, ND.

**Varcie, M.**, Baldwin, M., 2019: Analysis of winter precipitation trends based on ASOS reports. University of North Dakota, Grand Forks, ND.

### Poster Presentations

**Varcie, M.**, Agee, E., 2017: Evaluation of Doppler-based tornado warnings. Purdue University Undergraduate Research Symposium, West Lafayette, IN.

## Leadership and Community Engagement

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### SESE Research Review Committee

August 2019 - present

#### *Poster Judging Committee Head*

- Facilitates and coordinates judging portion of department research conference

### President | Purdue University Meteorological Association

August 2017 to May 2018

#### *4-year membership | Positions held: Secretary, Vice President, President*

- Engaged undergraduates interested in atmospheric science in social and professional events
- Assisted in coordinating forecasts for local customers such as the local radio station (WBAA)

### EAPS Department Student Ambassador | Purdue University

August 2015 - May 2019

- Presented to small and large groups of prospective students and parents
- Assisted in orientation and training of new student ambassadors

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### Other Activities

Purdue Science Student Council Member  
NCAR Undergraduate Leadership Workshop Participant  
Purdue New Student Orientation Team Supervisor  
College of Science Student Ambassador  
Purdue University Dance Marathon Morale Committee

### Awards / Honors

Exxon Outstanding Sophomore Award  
Purdue Presidential Scholarship  
EAS Founders Scholarship  
College of Science Scholarship  
Kathryn Pokorny Scholarship