
DANA M. TOBIN

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EDUCATION

PhD Student in Meteorology and Atmospheric Science

The Pennsylvania State University – University Park, PA

3.81 Cumulative GPA

- NASA Pennsylvania Space Grant Graduate Fellow

2017

Master of Science in Meteorology

The Pennsylvania State University – University Park, PA

3.77 Cumulative GPA

- Distinguished Master's Thesis **Award**

2016

2016

Bachelor of Science in Meteorology, with Distinction

The Pennsylvania State University – University Park, PA

3.81 Cumulative GPA – Dean's List, College of Earth and Mineral Sciences

- John A. Dutton **Award** in Atmospheric Dynamics
- John C. and Marilyn B. Redmond **Scholarship**
- Robert Case Memorial **Scholarship**

2014

2013

2013

Western Connecticut State University – Danbury, CT

3.89 Cumulative GPA – Dean's List, School of Arts and Sciences

PUBLICATIONS

- **Tobin, D. M.**, M. R. Kumjian, 2017: Polarimetric Radar and Surface-Based Precipitation Type Observations of Ice Pellet to Freezing Rain Transitions. *Wea. Forecasting*, in preparation.
- Van Den Broeke, M. S., **D. M. Tobin**, and M. R. Kumjian, 2016: Synoptic and Polarimetric Radar Observations of the 2-3 March 2014 Winter Storm in the Southern United States. *Wea. Forecasting*, **31**, 1179-1196.
- Markowski, P. M., Y. P. Richardson, M. R. Kumjian, A. K. Anderson-Frey, J. G. Jimenez, B. T. Katona, A. M. Klees, R. S. Schrom, and **D. M. Tobin**, 2015: Comments on "Observations of Wall Cloud Formation in Supercell Thunderstorms during VORTEX2". *Mon. Wea. Rev.*, **143**, 4278–4281.

RESEARCH EXPERIENCE

Research & Teaching Assistant

Matthew Kumjian, Assistant Professor of Meteorology

Observational and polarimetric radar modeling research of winter storms producing ice pellets.

Teaching Assistant for METEO 003, 005, 414, and 437.

August 2014 – present

Independent Studies – Graduate Level

Created MATLAB scripts and functions for calculating polarimetric radar variables of liquid, ice, and mixed phase spheroids of various sizes, shapes, and temperatures.

Dual-frequency radar analysis of a storm with DOW 7 X-band and State College S-band radar data.

Fall 2014

Research Project Assistant

Ludmil Zikatanov, Professor of Mathematics

Developed an edge average finite element scheme for the iFEM package in MATLAB.

July – August 2013

Student Volunteer, National Weather Service, State College, PA

Richard Grumm, Science and Operations Officer

Wrote case studies of severe weather events using polarimetric radar data.

May – August 2013

VOLUNTEERING AND OUTREACH

PSU Dual-pol Radar for Outreach Precipitation Studies (PSU-DROPS) Volunteer

Assisted with outreach activities for undergraduate and middle school students involving the DOW 7 radar.

September – October 2014

Penn State Weather Camp **Counselor**

Supervised and assisted high school students with hands-on weather-related activities.

June 2013

WCSU Bridge Program **Student Mentor**

Assisted middle school students in creating their own weather forecast video. Supervised trips to local radio and television stations.

September – November 2010