

HANNAH E. ATTARD

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Department of Atmospheric and Environmental Sciences ◊ University at Albany, SUNY

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EDUCATION

- Ph.D. Atmospheric Science** 2018 (est.)
University at Albany, SUNY
Concentration: Troposphere-stratosphere interaction
Advisor: Andrea L. Lang
- M.S. Atmospheric Science** 2014
University at Albany, SUNY
Thesis: *A Climatology of Lower-Stratospheric Fronts over North America*
Advisor: Andrea L. Lang
- B.S. Atmospheric Science (Honors)** 2012
University at Albany, SUNY
Minor: Mathematics
Honors Thesis: *Large-Scale Precursors to Major Lake-Effect Snowstorms Lee of Lake Erie*
Advisor: Ross A. Lazear

RESEARCH EXPERIENCE

- Research Meteorologist** 2015–present
Riskpulse
- Graduate Research Assistant** 2012–present
University at Albany, SUNY
- Advisor: Andrea Lang
 - Investigating how synoptic-scale systems influence the stratospheric circulation
 - Created a climatology of lower-stratospheric fronts over North America

TEACHING EXPERIENCE

- University at Albany, SUNY*
- Guest Lecturer**
- Synoptic Meteorology I (Undergraduate level)* Fall 2016
Professor: Kristen Corbosiero
- Weather, Climate Change, and Societal Impacts (Undergraduate level)* Spring 2016
Professor: Brian Tang
- Atmospheric Dynamics (Graduate level)* Fall 2015
Professor: Brian Rose
- Dynamic Meteorology II (Undergraduate Level)* Spring 2013, 2014, 2015
Professor: Andrea Lang
- Teaching Assistant** 2012–2016
Introduction to Climate Change (Online – Undergraduate Level) Spring 2016
Professor: Christopher Thorncroft

<i>Atmospheric Dynamics (Graduate Level)</i> Professor: Brian Rose	<i>Fall 2015</i>
<i>Weather Analysis and Forecasting (Undergraduate Level)</i> Professor: Ross Lazear	<i>Spring 2014</i>
<i>Dynamic Meteorology III (Undergraduate Level)</i> Professor: Ryan Torn	<i>Fall 2013</i>
<i>Dynamic Meteorology II (Undergraduate Level)</i> Professor: Andrea Lang	<i>Spring 2013</i>
<i>Dynamic Meteorology I (Undergraduate Level)</i> Professor: Brian Tang	<i>Fall 2012</i>

FELLOWSHIPS AND AWARDS

NASA Earth and Space Science Fellowship	2016-present
The Bernard Vonnegut Teaching Award <i>The Department of Atmospheric and Environmental Sciences University at Albany, SUNY</i>	2014, 2016
Travel Grant for the Storm Tracks Workshop <i>Stratosphere-troposphere Processes and their Role in Climate (SPARC) Travel grant funded through the National Science Foundation</i>	2015
The Karen R. Hitchcock New Frontiers Fund Award <i>Initiatives for Women University at Albany, SUNY</i>	2015
The Albert N. Husted Fellowship Award <i>The University at Albany Alumni Association University at Albany, SUNY</i>	2015
President's Award for Exemplary Community Engagement, Key Participant <i>University at Albany, SUNY</i>	2014
Outstanding Oral Presentation <i>26th Conference of Weather Analysis and Forecasting/22nd Conference on Numerical Weather Prediction</i>	2014
Travel Grant for the 17th Middle Atmosphere Conference <i>American Meteorological Society</i>	2013

PUBLICATIONS

- Attard, H. E.** and A. L. Lang, 2017: Cool season blocking, bombing, and the extratropical transition of tropical cyclones in the MERRA-2 dataset. in prep.
- Attard, H. E.** and A. L. Lang, 2017: Climatological and case analyses of lower-stratospheric fronts over North America. *Q. J. R. Meteor. Soc.*, **143**, 1471–1484, doi: 10.1002/qj.3018
- Attard, H. E.**, R. Rios-Berrios, C. T. Guastini, and A. L. Lang, 2016: Tropospheric and stratospheric precursors to the January 2013 sudden stratospheric warming. *Mon. Wea. Rev.*, **144:4**, 1321–1339.

CONFERENCE PRESENTATIONS

I. ORAL PRESENTATIONS

- Attard, H. E.** and A. L. Lang, 2015: The impact of Super Typhoon Nuri (2014) on the structure and

strength of the stratospheric polar vortex. *17th Cyclone Workshop*, Pacific Grove, CA.

Attard, H. E. and A. L. Lang, 2015: The longitudinal distribution and time series of 100-hPa heat flux prior to sudden stratospheric warming events. *Storm Tracks Workshop*, Grindelwald, Switzerland, Stratosphere-troposphere Processes and their Role in Climate (SPARC).

Attard, H. E., R. Rios-Berrios, C. T. Guastini, and A. L. Lang, 2014: Analysis of the meteorological precursors leading to the January 2013 sudden stratospheric warming. *39th Annual Northeastern Storm Conference*, Rutland, VT, Lyndon State College AMS/NWA.

Attard, H. E. and A. L. Lang, 2014: A climatology of lower-stratospheric fronts over North America. *26th Conference of Weather Analysis and Forecasting/22nd Conference on Numerical Weather Prediction*, Atlanta, GA, Amer. Meteor. Soc.

Attard, H. E. and A. L. Lang, 2013: A climatology of lower-stratospheric fronts over North America. *16th Cyclone Workshop*, Sainte-Adele, Quebec, CA.

Attard, H. E. and A. L. Lang, 2013: The 25-27 December 2010 snowstorm: A case study of the associated upper-level jet-front systems. *38th Annual Northeastern Storm Conference*, Rutland, VT, Lyndon State College AMS/NWA.

Attard, H. E. and R. A. Lazear, 2012: Large-scale precursors to major lake-effect snowstorms lee of Lake Erie. *37th Annual Northeastern Storm Conference*, Rutland, VT, Lyndon State College AMS/NWA.

II. POSTER PRESENTATIONS

Attard, H. E. and A. L. Lang, 2016: Three types of synoptic events and their associated troposphere-to-stratosphere coupling. *Workshop on Sub-seasonal to Seasonal Predictability of Extreme Weather and Climate*, Palisades, NY, International Research Institute for Climate and Society.

Attard, H. E. and R. A. Lazear, 2012: Large-scale precursors to major lake-effect snowstorms lee of Lake Erie. *25th Conference of Weather Analysis and Forecasting*, Montreal, Quebec, CA, Amer. Meteor. Soc.

PROFESSIONAL DEVELOPMENT

Department Representative	2013–2015
<i>Future Faculty Leadership Council</i>	<i>Albany, NY</i>

- Lead a departmental seminar each semester regarding preparing for the job market
- Wrote a blog post each semester regarding graduate students/preparing for the job market
- Assisted in organizing and presenting university wide workshops regarding preparing for the professoriate

Presenter, Panelist, Round Table Leader	2012, 2013, 2014
<i>College Teaching Symposium</i>	<i>Albany, NY</i>

- 2014: Presented on developing your teaching persona and roundtable leader regarding managing the student-TA-professor relationship
- 2013: Presented on diversity in the classroom and contributed as a panelist and roundtable leader regarding establishing authority in the classroom
- 2012: Attended as participant

OUTREACH

GIRLS Science Club, Flying Cloud Institute	2015, 2016
<i>Workshop and lab leader</i>	

Liberty Partnership Rising Star Program <i>Workshop leader, performed atmospheric science demonstrations</i>	2014, 2015
Voorhesville High School <i>In class visit, performed atmospheric science demonstrations</i>	2014, 2015, 2016
Family Earth Day Event <i>Activity Leader</i>	2013, 2014, 2015, 2016

SERVICE

SUNY Faculty Senate Graduate Poster Symposium	2015
Interviewer/Earth Science Expert <i>New York State Master Teacher Program</i>	2014

PROFESSIONAL AFFILIATIONS

American Meteorological Society
American Geophysical Union
Earth Science Women's Network

TECHNICAL SKILLS

Computer Languages	HTML, Unix Shell Scripting NCAR Command Language, GEMPAK
Tools	LaTeX, Git, Vim
Environments	Linux, Mac
Software	Adobe Illustrator, Microsoft Office