

Peyton K. Capute

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🐦 @peiweitakeout

EDUCATION

University at Albany, SUNY

Ph.D. Student in Atmospheric Science

Albany, NY

Anticipated: May 2023

Hobart and William Smith Colleges

B.S. in Geoscience

Geneva, NY

May 2018

The Bryn Mawr School for Girls

High School Diploma

Baltimore, MD

June 2014

RESEARCH EXPERIENCE

Graduate Research Assistant

Aug 2018 – Present

- A Comparison of the Predictability of Arctic Cyclones to Atlantic Basin Cyclones
- Research Advisor: Ryan Torn

Honors Research Project

Jan 2017 – May 2018

- Honors Thesis: Synoptic Patterns associated with Long-Lived Stationary Fronts
- Research Advisor: Nicholas Metz

Undergraduate Research Assistant

Summers of 2016-2018

- A Climatology of Warm-Season Stationary Fronts in the Eastern and Central United States
- A Climatology of Short-Wave Troughs in the Great Lakes Region and their Concurrence with Lake-Effect Snow
- The Impacts of the Passage of Three Distinct Short-Wave Troughs on a Prolonged Lake-Effect Snow Event during OWLeS
- Research Advisor: Nicholas Metz

REFERRED PUBLICATIONS

Metz, N. D., S. A. Callahan, **P. K. Capute**, C. C. Crossett, E.P. Morrill, and N. F. Laird, 2019: The Impacts of the Passage of Three Distinct Short-Wave Troughs on a Prolonged Lake-Effect Snow Event during OWLeS. *J. Appl. Meteor. Climatol.*, in process of being submitted.

Capute, P. K., J. O. Piersante, N. D. Metz. and E. G. Hoffman, 2019: Temporal and Spatial Frequency of Warm-Season Stationary Fronts in the Eastern and Central United States. *J. Appl. Meteor. Climatol.*, in process of being re-submitted.

Metz, N.D., Z.S. Bruick, **P. K. Capute**, M.M. Neureuter, E.W. Ott, and M.F. Sessa, 2019: An Investigation of Cold-Season Short-Wave Troughs in the Great Lakes Region and Their Concurrence with Lake-Effect Clouds. *J. Appl. Meteor. Climatol.*, **58**, 605–614.

CONFERENCE PRESENTATIONS

100th AMS Annual Meeting, Boston, MA

Jan 2020

- **Peyton K. Capute** and Ryan D. Torn,
- **Presentation:** A Comparison of the Predictability of Arctic and Atlantic Basin Cyclones

19th Cyclone Workshop, Seon, Bavaria, Germany

Sep-Oct 2019

- **Peyton K. Capute** and Ryan D. Torn,
- **Presentation:** A Comparison of the Predictability of Arctic and Atlantic Basin Cyclones

15th Conference on Polar Meteorology and Oceanography, Boulder, CO

May 2019

- **Peyton K. Capute** and Ryan D. Torn,
- **Poster:** A Comparison of the Predictability of Arctic and Atlantic Basin Cyclones

99th AMS Annual Meeting, Phoenix, AZ

Jan 2019

- **P. K. Capute**, J. O. Piersante, N. D. Metz, and E. G. Hoffman,
- **Presentation:** Temporal and Spatial Frequency of Warm-Season Stationary Fronts in the Eastern and Central United States

18th Annual AMS Student Conference, Phoenix, AZ

Jan 2019

- **P. K. Capute**, N. D. Metz, Z. S. Bruick, E. W. Ott, M. M. Neureuter, and M. Sessa,
- **Poster:** A Climatology of Short-Wave Troughs in the Great Lakes Region and their Concurrence with Lake-Effect Snow

43rd Annual Northeastern Storm Conference, Saratoga Springs, NY

Mar 2018

- **P. K. Capute**, N. D. Metz, Z. S. Bruick, E. W. Ott, M. M. Neureuter, and M. Sessa,
- **Presentation:** A Climatology of Short-Wave Troughs in the Great Lakes Region and their Concurrence with Lake-Effect Snow

17th Annual AMS Student Conference, Austin, TX

Jan 2018

- **P. K. Capute**, N. D. Metz, Z. S. Bruick, E. W. Ott, M. M. Neureuter, and M. Sessa,
- **Poster:** A Climatology of Short-Wave Troughs in the Great Lakes Region and their Concurrence with Lake-Effect Snow

Hobart and William Smith Colleges Parent's Weekend, Geneva, NY

Sep 2017

- **P. K. Capute**, N. D. Metz, Z. S. Bruick, E. W. Ott, M. M. Neureuter, and M. Sessa,
- **Poster:** A Climatology of Short-Wave Troughs in the Great Lakes Region and their Concurrence with Lake-Effect Snow

42nd Annual Northeastern Storm Conference, Saratoga Springs, NY

Mar 2017

- **P. K. Capute**, J. O. Piersante, N. D. Metz, and E. G. Hoffman,
- **Presentation:** Warm-season stationary fronts east of the Rocky Mountains: Interannual and intraseasonal distribution and variability

28th Conference on Weather Analysis and Forecasting, Seattle, WA

Jan 2017

- N. D. Metz, **P. K. Capute**, J. O. Piersante, and E. G. Hoffman,
- **Poster:** Warm-season stationary fronts east of the Rocky Mountains: Intraseasonal distribution and variability

16th Annual AMS Student Conference, Seattle, WA

Jan 2017

- **P. K. Capute**, J. O. Piersante, N. D. Metz, and E. G. Hoffman,
Poster: Warm-season stationary fronts east of the Rocky Mountains: Intraseasonal distribution and variability

INVOLVEMENT

Graduate Student Organization Treasurer, Albany, NY

Aug 2018 - Present

- Serves as treasurer for DAES Graduate Student Organization

Storm Chasing Instructor, Central Plains, USA

May 2019

- Co-lead GEO299 Field Course for Hobart and William Smith Colleges

Rapporteur at AMS Summer Community Meeting, Albany, NY

Aug 2019

- Rapporteur for 2019 AMS Summer Community Meeting for four sessions

National Weather Service Partner's Meeting, Albany, NY

Aug 2019

- Attended the NWS Partner's Meeting as a Graduate student

HONORS AND SKILLS

- The Donald L. Woodrow Prize in Geoscience, May 2018
- Honors in Geoscience, May 2018
- Liberty League All-Academic Honors, February 2018
- Computer Skills: Microsoft Office (Word, Excel, PowerPoint); Photoshop; Java; JavaScript; C; Objective C; C++; PHP; MATLAB; NCL; python; html; mySQL; SPSS; GIS; sketch