CURRICULUM VITA December 2018

LUCIEN SIMPFENDOERFER

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EDUCATION

Master of Science, Meteorology and Atmospheric Science, Pennsylvania State University, University Park, PA. Master's Thesis: *The formation of Arctic stratocumulus clouds in advecting air masses.* August 2018

Bachelor of Science, with Honors. Meteorology and Atmospheric Science, Pennsylvania State University, University Park, PA. August 2018

PUBLICATIONS

Simpfendoerfer, L. F., Verlinde, J., Harrington, J. Y., Shupe, M. D., Chen, Y., Clothiaux, E. E. (2019). Formation of Arctic stratocumuli through atmospheric radiative cooling. *Journal of Geophysical Research: Atmospheres*. *Submitted.*

PRESENTATIONS

Simpfendoerfer, L. F., Shupe, M. D., Verlinde, J. (2017). Relationships between water vapor and liquid water in Arctic mixed-phase stratiform clouds. Oral Presentation at the 14th Conference on Polar Meteorology and Oceanography. Seattle, WA.

Simpfendoerfer, L. F. and Verlinde, J. (2017). Environmental sensitivities during the formation of Arctic mixed-phase stratiform clouds. Oral Presentation at the Penn State Department of Meteorology First Year Graduate Research Symposium. University Park, PA.

Simpfendoerfer, L. F. and Shupe, M. (2016). Relationships between water vapor and liquid water in Arctic mixed-phase clouds. Oral Presentation at the NOAA Hollings Scholarship Research Symposium. Silver Springs, MD.
*Won award for oral presentation.

Fulakeza, M., Simpfendoerfer, L. F., Guerrero, I., Plácido, P. (2015). Evaluation of GISS regional model (RM3) weather forecasts over West Africa during the 2014 summer monsoon. Poster Presentation at the CUNY Summer STEM Research Symposium. New York, NY.

Simpfendoerfer, L. F., Rubinsztejn, A., Druyan, L., Fulakeza, M., Worrell, R. (2014). Evaluation of RM3 weather forecasts over West Africa during the 2013 summer monsoon. Poster Presentation at the CUNY Summer STEM Research Symposium. New York, NY.

ADDITIONAL RESEARCH EXPERIENCE

Research Intern in Arctic Cloud Processes, NOAA Earth Systems Research Laboratory, Jun.-Aug. 2016.
Used ten years of in-situ and remote sensing data recorded at Barrow, Alaska, and four years recorded at Summit Station, Greenland to study processes that occur within and around Arctic liquid-containing stratiform clouds. Culminated with a research presentation at NOAA headquarters in Silver Spring, MD. Improved skills data analysis with Matlab, in techniques for analyzing large amounts of observational data, and in communication of research to non-specialists.

Research Intern in Climate Science, NASA Goddard Institute for Space Studies, Jun.-Aug. 2014, 2015.
Led a high school student and public school teacher in evaluating daily weather forecasts produced by a dynamical regional climate model over West Africa. Taught five students and teachers practical skills in Matlab, in Python, and in meteorolgy, improving my ability to communicate and teach complex tehcnical concepts to non-specialists. Produced two sets of PowerPoint presentations, research posters, and research reports to convey results.

HONORS AND AWARDS

NOAA Hollings Scholarship Recipient, 2015-2017.
Student Marshall, College of Earth and Mineral Sciences, 2018.
Charles L. and Anna R. Hosler Scholarship in Meteorology, 2016-2017.
Matthew J. Wilson Honors Scholarship, 2015-2016.
Donald L. and Ellen Eberly Endowed Scholarship in Meteorology, 2015-2016.
Chelius Family Scholarship in Meteorology, 2014-2015.
Quentin and Louise Wood Honor Scholars Award 2014-2015.
Penn State Provost's Award, 2013-2015.

TEACHING EXPERIENCE

Fall 2017	Synoptic Meteorology (METEO 411), Pennsylvania State University, Teaching Assistant.
Spring 2017	Introduction to Programming Techniques for Meteorology (METEO 273), Pennsylvania State University, Teaching Assistant.
Fall 2016	Atmospheric Thermodynamics (METEO 431), Pennsylvania State University, Teaching Assistant.