

JAMES HLYWIAK

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Rosenstiel School of Marine and Atmospheric Sciences

4600 Rickenbacker Causeway ◊ Miami, FL 33149

EDUCATION

University of Miami, Miami, FL

August 2016 - Present

Ph.D. Candidate, Meteorology and Physical Oceanography

Projected Thesis Title: Tropical Cyclone Structure Before, During, and After Landfall

Advisor: Dr. David S. Nolan, Ph.D.

Pennsylvania State University, State College, PA

August 2012 - May 2016

B.S. in Meteorology - Atmospheric Science Option

3.79 GPA

Minors in Mathematics and Marine Sciences

University of Southampton, Southampton, UK

Spring 2015

Study Abroad Program, Marine Science Focus

PEER-REVIEWED PUBLICATIONS

Hlywiak, J. and D.S. Nolan, 2019. The Influence of Oceanic Barrier Layers on Tropical Cyclone Intensity as Determined through Idealized, Coupled Numerical Simulations. *J. Phys. Oceanogr.*, 49, 17231745, <https://doi.org/10.1175/JPO-D-18-0267.1>

Li, R., Palm, B.B., Ortega, A.M., Hlywiak, J., Hu, W., Peng, Z., Day, D.A., Knote, C., Brune, W.H., De Gouw, J.A. and Jimenez, J.L., 2015. Modeling the radical chemistry in an oxidation flow reactor: Radical formation and recycling, sensitivities, and the OH exposure estimation equation. *The Journal of Physical Chemistry A*, 119(19), pp.4418-4432.

CONFERENCES

2019: European Geophysical Union, General Assembly - Vienna, Austria

Oral Presentation: The Influence of Oceanic Barrier Layers on Tropical Cyclone Intensity as Determined Through Idealized, Coupled Numerical Simulations

2018: 33rd AMS Conference on Hurricanes and Tropical Meteorology - Ponte Vedra, FL

Poster Presentation: Coupled 3D Numerical Simulations of the Effects of Ocean Salinity on Tropical Cyclone Intensity

COMPUTING SKILLS

Programming Languages

MATLAB, FORTRAN, Python (working knowledge)

TEACHING EXPERIENCES

TA for ATM 244: Tropical Meteorology and Forecasting, University of Miami

Fall 2018

ARTICLE REVIEWS FOR

Geophysical Research Letters

WORKSHOPS ATTENDED

Weather, Research, and Forecasting Model Tutorial, Boulder, CO.

Jan 2018

AWARDS

University of Miami Fellowship	<i>2016 - 2018</i>
Chi Epsilon Pi Meteorological Honors Society, Penn State Chapter	<i>2015 - present</i>
Robert Case Memorial Scholarship	<i>2015/16 Academic Year</i>
John G. Miller Scholarship	<i>2013/14 Academic Year</i>
Penn State Freshman President's Award	<i>Spring 2013</i>