

JAMES HLYWIAK

(+1)814-852-8330 ◊ jhlywiak@rsmas.miami.edu

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

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

WORKSHOPS ATTENDED

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

Jan 2018

AWARDS

University of Miami Fellowship

2016 - 2018

Chi Epsilon Pi Meteorological Honors Society, Penn State Chapter

2015 - present

Robert Case Memorial Scholarship

2015/16 Academic Year

John G. Miller Scholarship

2013/14 Academic Year

Penn State Freshman President's Award

Spring 2013