

Curriculum Vitae
Ryan Joseph Kramer

4600 Rickenbacker Causeway
Miami, FL 33149
(240) 765-5161
Email: rkramer@rsmas.miami.edu

Education

PhD., Meteorology and Physical Oceanography Est.: Spring 2018
University of Miami
Rosenstiel School of Marine and Atmospheric Science
NASA Earth and Space Science Graduate Fellow
Advisor: Brian J. Soden, Ph.D.

B.S., Meteorology Spring 2013
Minor Mathematics
Pennsylvania State University – Schreyer Honors College
Honors Advisor: Chris E. Forest, Ph.D.
Honors Thesis: *Assessing the river forecasting capabilities of the Flux-Penn State Integrated Hydrologic Model and the Antecedent Precipitation Index-Continuous Model for the Little Juniata River Basin*

Research Interests

Large scale and global-mean hydrological cycle changes, and related circulation changes, from an energy balance perspective. Incorporating climate models and satellite observations to study radiative feedbacks and climate sensitivity.

Peer-Reviewed Publications

Kramer, R.J., Soden, B.J., 2016: The sensitivity of the hydrological cycle to internal climate variability versus anthropogenic climate change, *J. Clim.*, **29**, 3661-3673.

Kramer, R.J., Bounoua, L. and Coauthors, 2015: Evapotranspiration Trends Over the Eastern United States During the 20th Century. *Hydrology*, **2**, 93-111.

Presentations

The sensitivity of global mean precipitation to natural versus anthropogenic climate change, *2015 Graduate Climate Conference*, November 2015 (Talk)

The sensitivity of global mean precipitation to natural versus anthropogenic climate change, *2015 Gordon Research Conference on Radiation and Climate*, July 2015 (Talk and Poster)

The differing response of global mean precipitation to natural versus anthropogenic climate change, *2015 AMS Annual Meeting, Climate Variability and Change session*, January 2015 (Talk)

The sensitivity of global mean precipitation to natural versus anthropogenic climate change, *2014 CloudSat/CALIPSO Science Team Meeting*, November 2014 (Poster)

The sensitivity of global mean precipitation to natural versus anthropogenic climate change, *2014 CLARREO STD Meeting*, October 2014 (Talk)

Wind gust climatology for southern South Carolina and coastal northeast Georgia, *AMS 12th Annual Student Conference*, January 2013 (Poster)

Wind gust climatology for southern South Carolina and coastal northeast Georgia, *2012 NOAA Office of Ed. Science and Education Symposium*, August 2012 (Talk)

Evapotranspiration trends of the 20th century, *AMS 11th Annual Student Conference*, January 2012 (Poster)

Honors and Awards

NASA Earth and Space Science Fellowship	2016
University of Miami Graduate Fellowship, U Miami	2013
College of Earth and Mineral Sciences EMSAGE Laureate, Penn State	2013
Charles Hosler Scholarship in Meteorology, Penn State	2012
Ernest F. Hollings Scholar, NOAA	2011

Academic and Research Experiences

Ernest F. Hollings Scholar, NOAA Fall 2011 to Spring 2013

NWS Charleston, SC Summer Research Intern

Research Mentor: Frank Alsheimer, SOO, NWS Charleston, SC

Profiled the wind gust climatology of the office County Warning Area to improve wind gust forecasting. NWS Charleston forecasters developed a wind gust forecasting tool based on this research. This tool is now used for daily operational duties.

NASA Summer Institute in Earth Sciences Summer 2011

Goddard Space Flight Center, Biospheric Sciences Branch

Research Mentor: Lahouari Bounoua, Ph.D.

Analyzed 20th century evapotranspiration trends through a water budget approach. This research resulted in a publication.

WxChallenge National Forecasting Competition

Fall 2009-Spring 2013

2013 Individual National Champion (Highest Ranked Forecaster)

Member of the 2012 and 2013 National Championship Teams

Teaching Experience

Teaching Assistant, ATM 243 (Weather and Forecasting), University of Miami, Fall 2015: Led multiple lectures and most laboratory sessions. Helped prepare and grade in-class forecasting labs and homework assignments.

Teaching Assistant, METEO 215 (Forecasting Preparation Lab), Penn State University, Spring 2013: Led lectures and forecast discussions, organized class presentation schedules, and proctored quizzes.

Service and Leadership

Reviewer for: *Journal of Geophysical Research – Atmospheres*

Committee Member, AMS Annual Student Conference Planning Committee (2013-Present)

Organizing Committee Member, 2015 RSMAS/AAAS Science Communication Workshop

President, Penn State Branch of the American Meteorological Society (PSUBAMS), 2012-2013

President, Penn State Chapter of the National Weather Association (PSUCNWA), 2012-2013