

STEPHANIE E. ZICK

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DEPARTMENT OF GEOGRAPHY
UNIVERSITY OF FLORIDA
3141 TURLINGTON HALL
GAINESVILLE, FL 32611

WORK EXPERIENCE

The University of Florida, Gainesville, FL

Aug 2012—present

Graduate Teaching and Research Assistant

- Research Experience: As a graduate research assistant under Ph.D. advisor Dr. Corene Matyas, I am applying spatial analysis techniques to improve understanding of the evolving moisture budgets and precipitaton structures in landfalling tropical cyclones, using NEXRAD level III radar data, National Center for Environmental Prediction (NCEP) North American Regional Reanalysis (NARR) data, and NASA's TRMM Multi-satellite Precipitation Analysis (TMPA).
- Teaching Experience:
 - Summer 2014: Instructor for GEO 2242 Extreme Weather
 - Spring 2013: Distance Learning Instructor for GEO 2200 Physical Geography
 - Fall 2012: Distance Learning Teaching Assistant for GEO 2200 Physical Geography

The Johns Hopkins University, Baltimore, MD

May 2014—present

Visiting Graduate Student

Silver Stars Gymnastics, Silver Spring, MD

Sep 2011—Nov 2011

Santa Cruz Gymnastics Center, Santa Cruz, CA

Sep 2010—Nov 2001

Gymnastics Instructor

- Developed gymnastics conditioning and training regimens for individual and team success
- Mentored gymnasts, ages preschool through adolescence, in building and achieving goals

Naval Postgraduate School, Monterey, CA

July 2008—April 2010

Research Associate

- Led a team of scientists and graduate students in creating and presenting daily weather briefings during TPARC/TCS08, a field campaign designed to investigate the tropical cyclone throughout its life cycle.
- Evaluated and verified output from the COAMPS-TC tropical cyclone forecasting model for development and improvement of model for public release
- Analyzed tropical cyclone tracking models, including THORPEX Interactive Grand Global Ensemble (TIGGE) data and European Center (ECMWF) 32-day ensemble tropical cyclone tracks
- Advised and facilitated graduate students in completing thesis research projects, including in-depth analyses of convection and wind fields in Typhoon Nuri (2008) using COAMPS-TC.

Penn State University, State College, PA

Sep 2005—July 2008

Graduate Research Assistant

- Identified that low-level vorticity and vertical wind shear associated with the Madden Julian Oscillation (MJO) strongly affected genesis location and intensification of simulated tropical cyclones using the Weather Research and Forecasting (WRF) Model

Rutgers University, New Brunswick, NJ

June 2004—May 2005

Research Assistant

- Diagnosed the relative importance of latent heat flux in contributing to ice sheet mass balances using climate model output from present day and doubled CO₂ atmospheres

EDUCATION

University of Florida, Gainesville, FL

Ph.D. Candidate, Department of Geography, GPA 4.00

Advisor: Dr. Corene Matyas

Dissertation: Geometric Analysis of Moisture Budgets and Precipitation Structures in U.S. Landfalling Tropical Cyclones

Pennsylvania State University, University Park, PA

M.S. Meteorology, GPA 3.58

January 2008

Thesis: Effects of the Madden-Julian Oscillation on the Cyclogenesis of Hurricane Fausto (2002) and Hurricane Emily (2005)

Cook College, Rutgers-The State University of NJ, New Brunswick, NJ

B.S., Meteorology, Minor in Mathematics,

May 2005

GPA 3.859, *Summa Cum Laude*

Thesis: Analysis of CO₂-Induced Changes in Ice Sheet Mass Balance in a Global Climate Model

PUBLICATIONS

Zick, S. E., and C. J. Matyas. Geometries of Moisture Budgets in U.S. Landfalling Hurricanes and Implications for Rainfall. (Manuscript in preparation).

Zick, S. E., and C. J. Matyas. Tropical Cyclones in the North American Regional Reanalysis: The Impact of Satellite-derived Precipitation Over-Ocean. (Manuscript in preparation).

Zick, S. E., and C. J. Matyas, 2015: Tropical Cyclones in the North American Regional Reanalysis: An Assessment of Spatial Biases in Location, Intensity, and Structure. *Journal of Geophysical Research-Atmospheres*. (Manuscript in review).

Chen, Y., **S. E. Zick**, and A.R. Benjamin, 2015: A Comprehensive, Cartographic Approach to Visualization of an Evacuation Map for Hurricane Ike in Galveston County, TX. *Cartography and Geographic Information Science*. (Manuscript accepted).

Zick, S. E., 2008: Effects of the Madden-Julian Oscillation on the Cyclogenesis of Hurricanes Emily (2005) and Fausto (2002). *Masters Thesis, Penn State University*. University Park, PA, 103 pp.

Zick, S. E., 2005: Analysis of CO₂-Induced Changes in Ice Sheet Mass Balance in a Global Climate Model. *Undergraduate Honors Thesis, Rutgers University*. New Brunswick, NJ, 62 pp.

POSTERS AND PRESENTATIONS

2014 SOUTHEAST DIVISION OF THE AMERICAN ASSOCIATION OF GEOGRAPHERS (SEDAAG).

Zick, Stephanie E., and C. J. Matyas.

PAPER: *Geometries of Moisture Budgets in US Landfalling Tropical Cyclones & Implications for Rainfall.*
Athens, GA, November 2014.

INTERNATIONAL CONFERENCE ON MESOSCALE METEOROLOGY AND TROPICAL CYCLONES-X (ICMCS-X).

Zick, Stephanie E., and C. J. Matyas.

PAPER: *Moisture Budgets in US Landfalling Tropical Cyclones & Implications for Rainfall.*
Boulder, CO, September 2014.

JOHNS HOPKINS UNIVERSITY, EARTH AND PLANETARY SCIENCES, DARRYN WAUGH GROUP MEETING.

Zick, Stephanie E., and C. J. Matyas.

PRESENTATION: *Moisture Budgets in US Landfalling Tropical Cyclones & Implications for Rainfall.*
Baltimore, MD, April 2014.

2014 ASSOCIATION OF AMERICAN GEOGRAPHERS (AAG) ANNUAL MEETING.

Zick, Stephanie E., and C. J. Matyas.

PAPER: *Moisture Budgets in US Landfalling Tropical Cyclones & Implications for Rainfall.*
Tampa, FL, April 2014.

31st CONFERENCE ON HURRICANES AND TROPICAL METEOROLOGY

Zick, Stephanie E., and C. J. Matyas.

POSTER: *Assessment of Tropical Cyclone Kinematic and Thermodynamic Structures in the North American Regional Reanalysis.*
San Diego, CA, March 2014.

2014 AMERICAN METEOROLOGICAL SOCIETY (AMS) ANNUAL MEETING.

Zick, Stephanie E., and C. J. Matyas.

POSTER: *Assessment of Tropical Cyclone Moisture and Thermodynamic Budgets in the North American Regional Reanalysis.*
Atlanta, GA, February 2014.

2013 SOUTHEAST DIVISION OF THE AMERICAN ASSOCIATION OF GEOGRAPHERS (SEDAAG).

Zick, Stephanie E., and C. J. Matyas.

PAPER: *Assessment of Tropical Cyclone Moisture Budgets in the North American Regional Reanalysis.*
Roanoke, VA, November 2013.

UNIVERSITY OF FLORIDA DEPARTMENT OF GEOGRAPHY FALL 2013 COLLOQUIUM.

Waylen, P. R., **S. E. Zick**, J. Steele, and D. Nekorchuk,

PRESENTATION: *"4G or not 4G? Geography's Bold Leap Into the Next Frontier: Online Learning."*
Gainesville, FL, October 2013.

2013 ASSOCIATION OF AMERICAN GEOGRAPHERS (AAG) ANNUAL MEETING.

Zick, Stephanie E., and C. J. Matyas.

PAPER: *Thermodynamic Predictors of Rainfall in a Landfalling Tropical Cyclone.*
Los Angeles, CA, April 2013.

2012 SOUTHEAST DIVISION OF THE AMERICAN ASSOCIATION OF GEOGRAPHERS (SEDAAG).

Zick, Stephanie E.

PAPER: *Effects of the Madden-Julian Oscillation on the Cyclogenesis of Hurricane Fausto (2002)*.

Asheville, NC, November 2012.

28TH CONFERENCE ON HURRICANES AND TROPICAL METEOROLOGY.

Zick, Stephanie E., and W. M. Frank.

PAPER: *Effects of the Madden Julian Oscillation on the Cyclogenesis of Hurricane Fausto (2002) and Hurricane Emily (2005)*.

Orlando, FL, May 2008.

3RD NORTHEAST TROPICAL WORKSHOP.

Zick, Stephanie E.

PAPER: *Effects of the Madden Julian Oscillation on the Cyclogenesis of Hurricane Fausto (2002) and Hurricane Emily (2005)*.

Dedham, MA, June 2007.

GEORGE H. COOK POSTER CONTEST AND COLLOQUIUM

Zick, Stephanie E., and A. J. Broccoli.

POSTER: *Analysis of Greenland Ice Mass Budgets in a Doubled CO₂ Global Climate Model*.

New Brunswick, NJ, April 2005.

MEMBERSHIPS

• American Meteorological Society (AMS)	2003—present
• Association of American Geographers (AAG)	2012—present
• Southeast Division of the AAG (SEDAAG)	2012—present
• Florida Climate Institute	2012—present
• Association for Women in Sciences (AWIS)	2012—present
• UF Women in Science and Engineering (WiSE)	2012—present
• Chi Epsilon Pi National Meteorology Honors Society	2005—present
• Chi Alpha Sigma National College Athlete Honors Society	2005—present

AWARDS

• Ryan Poehling Fellowship, UF Department of Geography	2014
• Land Use and Environmental Change Institute (LUECI) Travel Grant	Spring 2014
• American Meteorological Society Radar Conference Student Travel Grant	Sept 2013
• Land Use and Environmental Change Institute (LUECI) Travel Grant	Spring 2013
• UF Graduate Student Council Travel Grant	2013, 2014
• AMS Industry/Government Graduate Fellowship, NOAA Office of Global Programs	2005—2006
• Rutgers Athletic Director's Excellence Award	2005
• USA Gymnastics Collegiate All-American, Uneven Bars and Floor Exercise	2005
• Academic All-American, Rutgers University Women's Gymnastics	2001—2005

SERVICE

- UF Geography Department Graduate Student Representative 2013—2014
 - Florida Museum of Natural History 2012—present
 - Special Events Volunteer* 2012—present
 - School Programs Docent* 2014—present
 - University of Florida Women in Science and Engineering (WiSE) 2012—present
 - Webmaster & Graphics/Social Media* 2013—2014
 - President* 2014—present
 - Rutgers Gymnastics Alumni Executive Board 2013—present
 - Science Fair Judge, Alachua County Public Schools 2012—present
 - Conversation Partner, The English Language Institute at UF 2012—2013
 - “Blue Crew” Volunteer, Smithsonian National Air and Space Museum 2012—2013
 - Forecaster, THORPEX Pacific-Asian Regional Campaign, Naval Postgraduate School 2008
 - Coordinator, Monterey Operations Center Driftsonde Launch Center, THORPEX Pacific-Asian Regional Campaign, Naval Postgraduate School 2008
 - Orientation Committee Head, Penn State Meteorology Graduate Activities Council 2006—2008
 - Tutor, Chi Epsilon Pi National Meteorology Honors Society 2005—2007
 - Producer/Anchor, Rutgers TV Weather Watcher Program 2003—2005
 - Rutgers Division I Women’s Gymnastics 2001—2005
 - Co-captain* 2005
 - Most Valuable Gymnast* 2004
 - Scholar Athlete Award* 2002—2003
 - Cook College Student Orientation Ambassadors 2001—2005
 - Publicity Chair* 2003
 - Cook College Program and Activities Council 2002—2005
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