## **KIERAN T. BHATIA**

	Address: Rosenstiel School of Marine & Atmospheric Science, 4600 Rickenbacker Causeway, Miami, FL 33149 Phone: 301-221-9638; Email: kbhatia@rsmas.miami.edu
Education	University of Miami, Rosenstiel School of Marine & Atmospheric Science, Key Biscayne, FL Ph.D. in Meteorology and Physical Oceanography, completed October, 2015. Advisor: David Nolan. Thesis: Tropical Cyclone Intensity Forecast Error Predictions and Their Applications.
	<i>University of Maryland</i> , College Park, MD B.S., Physics (meteorology track), <i>cum laude</i> , Class of 2010 University Honors Citation
Peer-Reviewed Publications	<ul> <li>Bhatia, Kieran T., and David S. Nolan, 2015. Prediction of Intensity Model Error (PRIME) For Atlantic Basin Tropical Cyclones. <i>Wea. Forecasting</i>, <b>30</b>, 1845-1865.</li> <li>Bhatia, Kieran T., and David S. Nolan, 2013: Relating the Skill of Tropical Cyclone Intensity Forecasts to the Synoptic Environment. <i>Wea. Forecasting</i>, <b>28</b>, 961–980.</li> <li>Nolan, David S., Robert Atlas, Kieran T. Bhatia, and Lisa R. Bucci, 2013: Development and validation of a hurricane nature run using the Joint OSSE Nature Run and the WRF model. <i>J. Adv. Earth. Model. Syst.</i>, <b>5</b>, 1-24.</li> </ul>
Other Publications	<ul> <li>Co-author for chapter on "The Hurricane Boundary Layer and Advanced Diagnostics for TC Predictions" in Indo-US Advanced Workshop and Colloquium on Modeling and Data Assimilation for Tropical Cyclone Predictions proceedings book (in press).</li> <li>Bhatia, Kieran T., "Frequently Asked Hurricane Questions: Understanding the Science of Prediction and Preparation in South Florida," South Dade Newsleader. June 26, 2015.</li> </ul>
	<ul> <li>Bhatia, Kieran T. "Hurricane Warning: Consume Rainbow Spaghetti with Caution." Online Blog. UM Rosenstiel School. July 16, 2014.</li> </ul>
Research Experience	<ul> <li>Postdoctoral Research Associate at Princeton University (March 2016 to present)</li> <li>Studying the effects of climate change on hurricane dynamics and impacts using GFDL HiFLOR Model</li> <li>Graduate Research at University of Miami (2010 to 2015)- Miami, Florida</li> <li>Developed and implemented operational error predictions for the National Hurricane Center intensity forecast guidance models (available here: http://rammb.cira.colostate.edu/products/ tc_realtime/season.asp?storm_season=2015)</li> <li>Graduate Research at University of Miami (2011 to 2013)- Miami, Florida</li> </ul>
	<ul> <li>Validated a high-resolution WRF hurricane nature run for an Observing System Simulation Experiment (OSSE)</li> </ul>
	Paid Summer Internship at NOAA (2009)- Boulder, Colorado
	<ul> <li>Created probabilistic medium-range evapotranspiration forecasts for the Coachella and Imperial Valleys in California</li> </ul>
	Paid Summer Internship at NOAA (2008)- Camp Springs, Maryland
	<ul> <li>Applied a conditional bias correction to large-scale forecast fields in high resolution GFS and ECMWF models</li> </ul>
	Research Assistant at University of Maryland (Fall 2009 to Spring 2010)- College Park, Maryland
	<ul> <li>Used TOMS and TOVS ozone data as a proxy for jet stream location to examine climate change's influence on the migration of the polar jet stream</li> </ul>
	Paid Research Assistant at University of Maryland (Spring 2008)- College Park, Maryland
	<ul> <li>Analyzed data documenting the growing amount of Carbon Dioxide in the Earth's oceans</li> </ul>
	Paid Research Assistant at University of Maryland (Fall 2008)- College Park, Maryland
	<ul> <li>Studied the effects of aerosols on convective processes</li> </ul>
	Research Assistant at University of Maryland (Spring 2007)- College Park, Maryland

Awards	<ul> <li>AMS Banner Miller Award co-author (2016)</li> </ul>
	<ul> <li>Presidential Management Fellows (PMF) STEM Finalist (2016)</li> </ul>
	<ul> <li>Invited Speaker for the Natural Hazards Research and Applications Workshop (2015)</li> </ul>
	<ul> <li>Finalist for the AMS Congressional Science Fellowship (2015)</li> </ul>
	<ul> <li>Awarded NSF funding to attend AMS Summer Policy Colloquium (2014)</li> </ul>
	<ul> <li>Awarded NSF funding to attend World Weather Open Science Conference (2014)</li> </ul>
	<ul> <li>University of Miami Academic Excellence, Leadership, and Service Award (2014)</li> </ul>
	<ul> <li>Awarded NSF funding to attend Indo-US Advanced Workshop and Colloquium on Modeling and Data Assimilation for Tropical Cyclone Predictions (2012)</li> </ul>
	<ul> <li>Rosenstiel Alumni Fellowship (2010)</li> </ul>
	<ul> <li>Member of Phi Beta Kappa Honor Society (2010-present)</li> </ul>
	<ul> <li>AMS's Loren W. Crow Memorial Scholarship (2009)</li> </ul>
	<ul> <li>NOAA's Ernest F. Hollings Scholarship (2008)</li> </ul>
Teaching Experience	<ul> <li>Teaching Assistant for undergraduate course, Atmospheric Dynamics I (Spring 2013)</li> <li>Teaching Assistant for undergraduate course, Survey of Modern Meteorology (Fall 2012)</li> <li>Teaching Assistant for Honors 100 at University of Maryland (Fall 2009)</li> </ul>
Computer	<ul> <li>Advanced in Matlab and LINUX/UNIX</li> </ul>
Skills	<ul> <li>Intermediate in FORTRAN, IDL, GRADS, and Python</li> </ul>
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Conferences Attended	2016 AMS Conference on Hurricanes and Tropical Meteorology – San Juan, Puerto Rico
Allendeu	<ul> <li>Oral Presenter: Evaluation and Applications of the Prediction of Intensity Model Error (PRIME) Forecasting System</li> </ul>
	<ul> <li>Poster Presenter: Tropical Cyclone Intensity Model Improvement: Better Models or Easier Forecasts?</li> </ul>
	2015 AGU Annual Conference- San Francisco, California
	<ul> <li>Poster Presenter: Evaluation and Applications of the Prediction of Intensity Model Error (PRIME) Forecasting System</li> </ul>
	2015 Interdepartmental Hurricane Conference – Miami, Florida
	<ul> <li>Oral Presenter: Guidance on Intensity Guidance</li> </ul>
	2014 World Weather Open Science Conference – Montreal, Canada
	<ul> <li>Oral Presenter: Prediction of Tropical Cyclone Intensity Forecast Error</li> </ul>
	2014 AMS Summer Policy Colloquium – Washington D.C.
	<ul> <li>NSF Funded Participant</li> </ul>
	2014 AMS Conference on Hurricanes and Tropical Meteorology – San Diego, California
	<ul> <li>Oral Presenter: Prediction of Tropical Cyclone Intensity Forecast Error</li> </ul>
	2014 Interdepartmental Hurricane Conference – Miami, Florida
	<ul> <li>Oral Presenter: Prediction of Tropical Cyclone Intensity Forecast Error</li> </ul>
	2012 AMS Annual Conference - New Orleans, Louisiana
	<ul> <li>Oral Presenter: Predicting the Performance of Tropical Cyclone Intensity Forecasts Using Environmental Parameters</li> </ul>
	2012 AMS Conference on Hurricanes and Tropical Meteorology – Jacksonville, Florida
	<ul> <li>Oral Presenter: Predicting the Performance of Tropical Cyclone Intensity Forecasts Using Environmental Parameters</li> </ul>
	2012 Indo-US Advanced Workshop and Colloquium on Modeling and Data Assimilation for Tropical Cyclone Predictions – Bhubaneswar, India
	- NSE Funded Participant

Investigated the effects of increased levels of Carbon Dioxide on global wind patterns

NSF Funded Participant