

*Curriculum Vitae*

**Eric D. Robinson**

Graduate Student, Department of Earth and Atmospheric Sciences  
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**Education:**

Purdue University, West Lafayette, IN. PhD in Atmospheric Science

**Advisor:** Jeff Trapp,

**Current Research:** Climate Change and Mesoscale Processes.

**Projected Graduation:** May 2012

Purdue University, West Lafayette, IN. B.S. in Applied Physics

Minor in Atmospheric Science

**Research**

**Advisor:** Dr. Robert Trapp

**Dates:** Current

**Project:** Climatology of Severe Weather Events from Convection-permitting WRF Simulations.

**Synopsis:** Using reanalysis data from the NCEP/NCAR Reanalysis Project, we completed daily initialized 24-hr WRF simulations over AMJ and then used a specialized algorithm to identify and count severe weather systems triggered in the model. This data was then compiled into a climatology of severe weather events over a 10-yr period for the easternmost 2/3 of the CONUS.

**Advisor:** Dr. Mike Baldwin

**Dates:** August 2007 – May 2008

**Project:** Implementation of Object Based Forecasting Analysis

**Synopsis:** We worked on implementing an object based analysis of convective and non-convective precipitation systems from a 4 km resolution WRF run covering 2/3 of the CONUS and coordinating model information to local NWOs and the SPC.

**Advisor:** Dr. Robert Trapp

**Dates:** August 2006 – May 2007

**Project:** “Changes in severe thunderstorm environment frequency in the 21st century due to anthropogenically enhanced global radiative forcing”

**Synopsis:** Using re-analysis data from the REGCM3, we analyzed changes in severe weather patterns in the CONUS caused by anthropogenic climate change and elevated greenhouse gas concentrations. See publication below.

**Advisor:** Dr. Laura Pyrak-Nolte

**Dates:** August 2005 – August 2006

**Project:** Fluid Flow Through Sub-Porosities

**Synopsis:** We designed an experiment and analysis technique using water-coupled piezoelectric transducers to examine the correlation between the change in seismic properties and the change in fluid flow through a sample.

### **Publications**

Trapp, R. J., N. S. Diffenbaugh, H. E. Brooks, M. E. Baldwin, **E. D. Robinson**, and J. S. Pal, 2007: Changes in severe thunderstorm environment frequency during the 21st century caused by anthropogenically enhanced global radiative forcing. Proceedings, National Academy of Sciences, 104, 19719-19723, doi: 10.1073/pnas.0705494104.

### **Activities and Organizations**

Earth and Atmospheric Science Graduate Student Association - 2008-Present

Physics Tutor – Purdue University Minorities in Engineering Program – Fall 2006

American Meteorological Society (2008-Present)

American Geophysical Union (2006-2008)