

Nathan C. Hiers

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Education

University of Oklahoma, Norman, OK
B.S. in Meteorology
Minors in Computer Science and Mathematics

- GPA: 3.04
- Expected Graduation – May 2008

Published Papers

Nathan C. Hiers, Amy McGovern, Derek H. Rosendahl, Kelvin K. Droegemeier, Rodger A. Brown, and Meredith G. Beaton (2008) *Identifying Key Parameters for Anticipating Tornadogenesis in Simulated Supercell Storms Using Data Mining*. To appear in the Preprints of the 19th Conference on Probability and Statistics, electronically published by the AMS.

Nathan C. Hiers, Amy McGovern, and Rodger A. Brown (2008) *Analysis of Variations in United States Tornado Warning Performance*. To appear in the Preprints of the Sixth Conference on Artificial Intelligence and its Applications to the Environmental Sciences, electronically published by the AMS.

Experience

Undergraduate Researcher

Research Experience for Undergraduates: Embedded Machine Learning Systems, Norman, OK
2007 – Present

- Utilize proven data mining techniques to improve forecasting accuracy of tornadogenesis
- Identify and extract spatial and temporal meteorological features from complex data sets
- Assist in the knowledge integration of meteorologists and computer scientists
- Selected for the position above all of many other computer science undergraduate applicants

Volunteer Forecaster

Collaborative Adaptive Sensing of the Atmosphere Program, Norman, OK
2007, Spring Only

- Assist research of the CASA Integrative Project 1, Spring Experiment 2007 (CSET-07)
- Provide forecasting and nowcasting of severe weather convection
- Only undergraduate forecaster participating in experiment

Data Quality Assistant

Atmospheric Radiation Measurement Program, Norman, OK
2005 – Present

- Oversee meteorological data used by professional researchers
- Work independently to ensure meteorological data accuracy
- Utilized analytical, organizational and problem solving skills
- One of three undergraduate students selected for three merit-based positions

Strengths and Skills

- Programming Languages: Java, C++, Python, MATLAB, HTML, XML
- Major Software: Photoshop, Powerpoint, Dreamweaver, Google Earth, MS Office Suite
- Operating Systems: Windows, Mac OS, Linux/Unix