

# Bradford Scott Barrett

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## ADDRESSES:

### United States

School of Meteorology  
University of Oklahoma  
120 David L. Boren Blvd. #5900  
Norman, OK 73072  
+1 (405) 325-6561

### Austria

Wegener Center for Climate Change  
25 Leechgasse  
A-8010 Graz AUSTRIA  
[bradb@ou.edu](mailto:bradb@ou.edu)  
+1 (405) 445-5351

## PERSONAL:

Born 24 September 1979 in Goldsboro, North Carolina

## EDUCATION:

Ph.D., Meteorology, University of Oklahoma, August 2007.

Advisor: Dr. Lance Leslie

Dissertation: *"Can tropical cyclones be forecasted? Investigations in climatology and numerical modeling"*

M.S., Meteorology, University of Oklahoma, May 2004.

Advisor: Dr. Lance Leslie.

Thesis: *"Improving tropical cyclone track forecasts using climatology"*

B.Sc., Business Administration, Kenan-Flagler Business School, University of North Carolina at Chapel Hill, May 2001.

Highest distinction. Minor: Geography

## PROFESSIONAL EXPERIENCE:

|                         |   |
|-------------------------|---|
| Jan. 2007 – present:    | Graduate research assistant, School of Meteorology, University of Oklahoma                      |
| Sept. 2006 – Feb. 2007: | Visiting Lecturer and Scientist, Wegener Center for Climate Change, University of Graz, Austria |
| Jun. 2006 – Aug. 2006:  | Instructor, University of Oklahoma  |
| Aug. 2005 – Jun. 2006:  | Fulbright Scholar, Caribbean Institute for Meteorology and Hydrology, Barbados                  |
| May 2002 – Aug. 2005:   | Graduate Research Assistant, University of Oklahoma   |
| Aug. 2004 – Dec. 2004:  | Instructor, University of Oklahoma  |

Jun. 2003 – Aug. 2003: Naval Research Enterprise Intern, Naval Research Laboratory, Monterey, California  
Aug. 2001 – May 2002: Graduate Teaching Assistant, University of Oklahoma

### **AWARDS:**

2006: National Science Foundation East Asia-Pacific Institute (finalist)\*  
2005: J. William Fulbright Fellow\*  
2005: Faculty recognition for Outstanding Performance as a Graduate Student, School of Meteorology  
2004: Director's Award for Service to Department, School of Meteorology  
2003: Naval Research Enterprise Intern\*  
2002: Teaching Assistant of the Year, School of Meteorology

\* Nationally competitive awards

### **RESEARCH FIELDS:**

Synoptic meteorology  
Tropical cyclones  
Climatology  
Numerical weather prediction  
Boundary layer

### **TEACHING:**

*Severe and Unusual Weather and Climate Extremes* (combination undergraduate and graduate, 40 students), Winter semester 2006, University of Graz  
*Severe and Unusual Weather* (undergraduate non-major, 6 students), August intersession 2006, University of Oklahoma  
*Introduction to Meteorology* (undergraduate non-major, 10 students), summer 2006, University of Oklahoma  
*Tropical Meteorology* (graduate, 20 students), guest lecturer, fall 2004 and 2006  
*Severe and Unusual Weather* (undergraduate non-major, 90 students), fall 2004  
*Introduction to Meteorology Laboratory* (undergraduate non-major, 100 students), fall 2001, spring 2002

## REFEREED PUBLICATIONS:

Barrett, B. S., L. M. Leslie, and B. H. Fiedler, 2006: An example of the value of strong climatological signals in tropical cyclone track forecasting: Hurricane Ivan (2004). *Mon. Wea. Rev.*, **134**, 1568-1577.

## PARTICIPATION IN SCIENTIFIC MEETINGS:

Barrett, B. S., 2006: Relationship between sea-surface temperature anomalies and precipitation across Turkey, *1<sup>st</sup> International Conference on Climate Change and the Middle East: Past, Present, and Future*, Istanbul Technical University, Istanbul, Turkey.

Barrett, B. S., L. M. Leslie, and B. H. Fiedler, 2006: Examples of the value of strong climatological signals in tropical cyclone track forecasting. Preprints, *22nd International Conference on Interactive Information Processing Systems for Meteorology, Oceanography, and Hydrology*, Atlanta, GA, Amer. Meteor. Soc. 5.5.

Barrett, B. S., and L. M. Leslie, 2005: An examination of the quality of the Atlantic tropical cyclone database. Preprints, *16th Conference on Climate Variability and Change*, San Diego, CA, Amer. Meteor. Soc. 1.30.

Barrett, B. S., and L. M. Leslie, 2004: Tropical cyclone forecasting using climatology and NWP output. *26th Conf. on Hurricanes and Tropical Meteorology*, Miami, FL, Amer. Meteor. Soc. 5C.3.

Barrett, B. S., L. M. Leslie, and C.-S. Liou, 2004: Relationship between climatology and model track, bearing, and speed errors. Preprints, *20th Conf. on Weather Analysis and Forecasting/Sixteenth Conf. on Numerical Weather Prediction*, Seattle, WA, Amer. Meteor. Soc. 13.6.

Barrett, B. S., and L. M. Leslie, 2003: Improving landfall forecasts for tropical cyclones moving parallel to the coastline. *12th Conf. on Interactions of Sea and Atmosphere*, Long Beach, CA, Amer. Meteor. Soc., 8.2.

## STUDENT ADVISING:

Anna Wassler, University of Graz, Austria, 2006, Chair of the Bachelorsstudium (bachelor thesis), "Links between El Nino and high-latitude Atlantic hurricane activity".

Michael Behom, University of Graz, Austria, 2006, Chair of the Bachelorsstudium (bachelor thesis), “Ingredients for supercell thunderstorm formation: a comparison between Austria and the United States”.

## **JOURNAL REVIEWER:**

*Journal of Atmospheric Research*, 2005-2006

## **FIELD EXPERIMENT PARTICIPATION:**

- 2004: Tornadogenesis investigations: U-Mass MRSL W-band Doppler radar with H. Bluestein; Rotate-2004 C-band Doppler radar with J. Wurman and C. Alexander
- 2003: Landfall wind examinations in Hurricane Isabel, C-band Doppler radar, HAL-2003, with J. Wurman, C. Alexander, and D. Dawson
- 2002: Boundary layer wind investigations in Hurricane Lili, C-band Doppler radar, HAL-2002, with J. Wurman, C. Alexander, and W. Martin

## **SERVICE ACTIVITIES:**

- University:     Student Affairs Committee, 2003-2006 (Chair, 2004)  
                  Visiting Students Weekend committee, 2003-present  
                  Student representative to Faculty, 2003-2004  
                  Department tour guide (given over 100 tours), 2003-present  
                  Oklahoma Weather Lab, shift leader 2001-2003
- Community:    Children’s Network Telethon, volunteer 1995-2001  
                  North Carolina Future Business Leaders of America, state  
                                  conference volunteer, 1999-2001  
                  Group leader, Wildwood Community Church, 2002-present

## **LANGUAGE PROFICIENCIES:**

German and Spanish, beginning

## **PROFESSIONAL MEMBERSHIPS:**

American Meteorological Society, 2001-present

American Geophysical Union, 2006-present

**PERSONAL HOBBIES:**

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| Jogging:           | Four marathons completed (Chicago 2002, 2003; Top of Utah 2004; Oklahoma City 2005), 3:39 fastest time |
| Mountain climbing: | Pikes Peak and Mt. Yale, CO; Mt. Washington, NH, and others  |
| Travel:            | Visited all 50 U.S. states   |