

JAMES O. H. RUSSELL

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Employment / Experience

Graduate Research Assistant, University of Oklahoma, School of Meteorology.

Norman, OK, Jan 2013 - Present.

- Statistical analysis to evaluate numerical weather prediction model (WRF) biases.
- Experience with all aspects of research including presentations, writing and editing published articles, coding, conferences.

Graduate Teaching Assistant, University of Oklahoma, School of Meteorology.

Norman, OK, Aug 2012 - Dec 2012.

- Worked in group to design and write labs, quizzes, exams and homework.
- Individually taught and graded lab sections for Introduction to Weather and Climate.

Extra Curricular at National Weather Center.

Norman, OK.

- **School of Meteorology, Academic Tutor.** Jan 2013 - Present.
 - Weekly tutoring for undergraduate Meteorology students.
- **School of Meteorology, Student Affairs Committee.** August 2013 - Present.
 - Masters representative of group providing link between faculty and students. Involved in design and decision making for new classes, organized tutoring, and provided student feedback to faculty.
- **Storm Prediction Center, Shadow.** April 2014.
 - Valuable experience of the workings, and forecast process at world class forecast center.
- **Oklahoma Weather Lab, Volunteer Student Forecaster.** Jan 2011 - May 2011.
 - Produced published forecasts using variety of observations and model output.

Research Placement, British Antarctic Survey.

Cambridge, UK, Aug 2011 - Oct 2011.

- Prestigious placement in world class cross-disciplinary environmental organisation.
- Innovative statistical analysis of stochastic models and Central England Temperature series.

Student Ambassador, University of Reading, Widening Participation Office.

Reading, UK, Nov 2008 - Oct 2009.

- Represented University at public events.
- Mentored, taught, organised and supported high school math, geography and prospective meteorology students.

Independent Television (ITV) Meridian.

Southampton, UK, June 2007.

- Work experience with Met Office forecaster.
- Insight into forecasting within media.

Education

M.S., Meteorology, University of Oklahoma (to be completed).

Norman, OK, US, December 2014.

Thesis: 'Evaluation of the Antarctic Mesoscale Prediction System using the CONCORDIASI Dataset'.

Advisors: Dr David Parsons & Dr Steven Cavallo.

MMet in Meteorology with a Year in Oklahoma. University of Reading.

Reading, UK, July 2012.

First Class Honours. Dissertation: 'The Steady-State Response of a Simple Tropical General Circulation Model to Seasonal Thermal Forcings'. Advisor: Dr Peter Inness.

Scholarships / Awards / Memberships

University of Oklahoma Graduate College, International Travel Scholarship. Aug 2014.

National Environment Research Council, Research Experience Placement Award. Aug 2011.

American Meteorological Society, Student Member. Feb 2013 - present.

Computing Experience

Proficient in: MATLAB, MS Word, MS Excel, Unix, Linux, Windows. Experience with: Fortran 77/90, Python, LaTeX, HTML, R, Mathematica, MS Powerpoint, Mac OS.

Supercomputing Environments: NCAR Yellowstone.

Interests

Currently my work is related to mesoscale modelling in the Antarctic however my interests are broad and cover the following areas:

- Tropical Meteorology
- Polar Meteorology
- Atmospheric Dynamics
- Weather & Climate Interactions

Publications / Conference Presentations

Russell, J. O. H., D. Parsons and S. M. Cavallo, 2014: Concordiasi Dropsondes: Improved Characterization of Errors in the Antarctic Mesoscale Prediction System. World Meteorological Organisation, World Weather Open Science Conference, Montreal, QC, Canada.

Russell, J. O. H., D. Parsons and S. M. Cavallo, 2014: Evaluating the Antarctic Mesoscale Prediction System using the Concordiasi Dataset. American Meteorological Society, 13th Annual AMS Student Conference, Atlanta, GA, USA.