

David Lewis

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Education

University of Leeds: MRes Climate and Atmospheric Science, Sep 2015 (*Leeds, UK*) Merit

- Climate Change: Physical Science Basis
- Climate Change: Impacts and Adaptation
- Numerical Methods and Statistics
- Environmental Risk
- MRes Dissertation: *Understanding Precipitation Formation in UK Convective Clouds*

Purdue University: BS Atmospheric Science, May 2014 (*West Lafayette, Indiana, USA*)

- Multiple Levels of Calculus (*including Linear Algebra and Differential Equations*)
- Statistics
- Environmental Policy
- Weather Analysis and Forecasting
- Technical Writing
- C Programming
- *Several* other Atmospheric Science courses

Lawrence Central High School: Academic Honors Diploma, May 2010
Indianapolis, Indiana, USA)

Relevant Experience

Laboratory Assistant

Indiana University School of Medicine - Indianapolis, Indiana - June - August 2014

- Assisted the graduate students in a lab within the biochemistry and molecular biology department with their research by completing some very technical experiments involving protein expression and purification, and enzyme kinetics.

Research Intern

National Centre for Atmospheric Science - Cornwall, UK - June - August 2013

- Aided research scientists during a field campaign, The Convective Precipitation Experiment (COPE).
- Assisted with radar operations, warned aircraft of lightning and authored a blog ([link below](#))

Undergraduate Research Assistant

Purdue University - West Lafayette, Indiana - May - August 2012

- Analysed data from the Ice in Clouds-Tropical (ICE-T) project. The goal was to quantify the earliest amount of ice seen in the clouds.

Laboratory Assistant

University of Michigan - Ann Arbor, Michigan - June - August 2010/11

- Assisted the laboratory manager within the Life Sciences Institute with daily operations including, organising chemicals, making buffers used in experiments, and cleaning materials and lab surfaces. Also completed various tasks, such as site-directed mutagenesis to assist graduate students with their research.

Other Work Experience

Cashier

Menards - Fishers, Indiana - August 2009 - June 2010

- Worked as part of a team to maintain an inviting atmosphere for customers, dealt with customer queries during purchase, and learned how to deal with several kinds of personalities while maintaining a positive attitude and promoting the company.

Relevant Skills

Written and Verbal Communication

- Wrote a blog about the Convective Precipitation Experiment (COPE), a field campaign held during the summer of 2013
- Presented to prospective students (2-50) about my university experiences and served as representative of the College of Science in my role as Ambassador for Purdue College
- Experienced writing literature reviews, project proposals and reports including, but not limited to, a climate change impacts critical analysis of wildfires and an environmental risk analysis of fracking, as part of various modules.
- Co-presenter on a news/music show for Leeds Student Radio since October 2014.
- Maintain a weather-related YouTube Channel

Computing

- Some experience using C and currently learning Python.
- Used Matlab to develop a program that analyses radar data from COPE to examine information such as storm cell size, storm tracks and time-height profiles of maximum reflectivity of the storm (*received a first on this project*)
- Used HTML and CSS to make a webpage describing the working of the program in Matlab
- Proficient use of Microsoft Office and Mac Pages for data analysis and synthesising reports

Research and Data Analysis

- Master's project: analysing radar data to compare to model simulations
- Research coursework at Purdue University: Formulating and organising research projects, collecting meteorological data, analysing data, and reporting results. **Project examples:** Variability in Atmospheric Thermodynamic Soundings, Study of WIBS Estimated Aerosol Totals Entering Regions Via Environmental Seabreeze Trajectories.
- Case study project for final year (undergraduate) weather forecasting class. Thoroughly analysed the meteorological conditions leading to the April, 2011 St. Louis airport tornado.

Customer-Driven Service

- Placed in charge of the Purdue Meteorological Association's Twitter page.
- Provided winter weather forecasts, as a member of the Purdue Forecasting Club, to the Indiana Department of Transportation to show where they may need to grit roads

Initiative and Teamwork

- Organised and motivated a group of students during field-work course. This included organising plan of action and coordinating with other group leaders, making very quick decisions as weather conditions changed rapidly.

References: Available on request