

Sara K. Purdue

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Education

Georgia Institute of Technology, Atlanta, GA (August 2014-Present)

Pursuing PhD in Earth and Atmospheric Science

University of Miami, Coral Gables, FL (August 2010-May 2014)

B.S. in Meteorology and Mathematics with general and departmental honors

Experience

Rosensteil School of Marine & Atmospheric Science 4600 Rickenbacker Causeway, Miami, FL 33149

Undergraduate Research Assistant 05/2013 – 05/2014

- Write and implement scripts in IDL to visualize and analyze various data sets
- Convert excel data output from CCN counter to netcdf files and upload the new files to the CAROb website
- Maintain the CCN counter by refilling water supply, checking ratios, etc.
- Compare CCN concentrations at the surface to other data, such as lidar and satellite images, to determine dust integration within the boundary layer

Sierra Foothill Laboratory 255 Scottsville Drive, Jackson, CA 95642

Summer Intern-Water Quality Lab Assist. 05/2011 – 8/2011

- Prepare, autoclave, and perform quality check tests on various types of media
- Prepare and weigh filter papers for TSS and TSSL testing and weigh finished filter papers for analysis
- Perform pH preparation on ammonia samples for further testing
- Clean and upkeep organization in the lab

Skills

Experience with FORTRAN 90/95, IDL, Octave, and IDV

Experience with Microsoft Word, Power Point, and Excel, including data analysis in Excel

Experience with tutoring in math and science subjects

SSI SCUBA certification

Experience with darkroom photography

Memberships

American Meteorological Society Student Member, 2010-2014

Chi Epsilon Pi-Meteorological Honors Society, 2011-2014 (*Secretary*)

University of Miami AMS Student Chapter, 2011-2014

Rho Rho Rho (Marine and Atmospheric Science Honor Society), 2010-2014

National Weather Association Student Member, 2012-2013

Awards and Honors

Georgia Tech President's Fellowship Recipient-August 2014-Present

Dean's List-Fall 2010, Spring 2011, Spring 2012, Spring 2013, Spring 2014

Provost Honor Roll-Spring 2011, Spring 2014

Undergraduate Leadership Conference Attendee, 2013

Publications and Presentations

Sara Purdue, P. Zuidema, R. Delgadillo, J. M. Prospero, and K. Voss. *How has the Saharan air layer evolved with transport across the Atlantic? Observations from South Florida's Cloud-Aerosol-Rain-Observatory (CAROb)*. American Meteorological Society 94th Annual Meeting. Atlanta, GA. February 5, 2014. (Platform presentation)

Sara Purdue and P. Zuidema. *Can Saharan Dust Serve as Cloud Nuclei for Boundary-Layer Clouds in South Florida?*. American Meteorological Society Annual Meeting. Atlanta, GA. February 2, 2014. (Poster presentation)