

DANIEL CUSWORTH

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EDUCATION

Harvard University

September 2013 - present

Ph.D: Earth & Planetary Sciences

- **Advisors:** Loretta Mickley, Daniel Jacob
- **Focus:** Climate-chemistry interactions, drought in the United States

University of California, Los Angeles

March 2012

B.S: Mathematics and Atmospheric & Oceanic Sciences

- **Advisor:** Kuo-Nan Liou
- **Thesis:** Calculation of direct radiative forcing due to the vertical structure of black carbon in three target regions

EXPERIENCE

The Cadmus Group, Inc.

October 2012 - July 2013

Research Analyst

Waltham, MA

- Environmental consulting for the United States Environmental Protection Agency (USEPA)

Jet Propulsion Laboratory

January 2012 - August 2012

Student Intern

Pasadena, CA

- **Advisors:** Benjamin Holt, Eric Kort, Charles Miller
- Modeled carbon emission reduction policies for comparison with projected Orbiting Carbon Observatory data using the Stochastic Time-Inverted Lagrangian Transport model (STILT)
- Used ASAR images from ENVISAT to identify stormwater pollution emanating from Los Angeles and Orange County urban areas.

UCLA Joint Institute for Regional Earth System Science and Engineering (JIFRESSE)

August 2011 - March 2012

Los Angeles, CA

Research Assistant

- Modeled changes in the vertical heating profiles due to the presence of black carbon in three geographic regions

PRESENTATIONS

Cusworth, D.C., K. O'Connell, M. Traverso, E. Kort. *Detecting Policy Relevant Carbon Reduction Scenarios for Los Angeles Utilizing Future Remote Sensing Capabilities*, NASA Headquarters, Washington D.C, August 2012

Cusworth, D.C., E. Vargas, K. Laygo. *Incorporating Synthetic Aperture Radar to Address Stormwater Quality Management along the Southern California Bight*, Jet Propulsion Laboratory, May 2012

TEACHING AND RESEARCH FELLOWSHIPS

- NSF Graduate Research Fellowships Program - *Honorable Mention* *2015*
- Teaching Fellow, Environmental Modeling - Harvard University *Fall 2014*
- Alan Howard Foundation Fellowship *2013 - 2014*