DANIEL CUSWORTH

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EDUCATION

Harvard University *September 2013 - June 2018*
Ph.D: Atmospheric Chemistry, minor in Computer Science
S.M: Applied Mathematics

University of California, Los Angeles *March 2012*
B.S: Mathematics and Atmospheric & Oceanic Sciences

RESEARCH EXPERIENCE

NASA Jet Propulsion Laboratory *September 2018 - Present*
JPL Postdoctoral Scholar *Pasadena, CA*

Harvard School of Engineering and Applied Sciences *Summer 2018*
Postdoctoral Research Fellow *Cambridge, MA*

Harvard Department of Earth & Planetary Sciences *July 2013 - May 2018*
Graduate Student Research Fellow *Cambridge, MA*

Legendary Entertainment Applied Analytics *September 2016 - May 2017*
Data Science Intern *Boston, MA*

The Cadmus Group, Inc. *October 2012 - July 2013*
Research Analyst *Waltham, MA*

Jet Propulsion Laboratory *January 2012 - August 2012*
NASA DEVELOP Researcher *Pasadena, CA*

UCLA Joint Institute for Regional Earth System *August 2011 - March 2012*
Science and Engineering (JIFRESSE) *Los Angeles, CA*
Research Assistant

PUBLICATIONS

Cusworth, D. H., Jacob, D. J., Sheng, J.-X., Benmergui, J., Turner, A. J., Brandman, J., White, L., and C.A. Randles (2018), *Detecting high-emitting methane sources in oil/gas fields using satellite observations*, Atmos. Chem. Phys. .

Cusworth, D.H., Mickley, L.J., Sulprizio, M.P., Lui, T., Marlier, M.E., and R.S. DeFries (2018), *Quantifying the influence of agricultural fires in northwest India on urban air pollution in Delhi, India*, Environ. Res. Lett.

Liu, T., Marlier, M.E., DeFries, R.S., Westervelt, D.M., Xia, K.R., Fiore, A.M., Mickley, L.J., Cusworth, D.H., and G. Milley (2018), *Contributions of agricultural burning to air pollution in three Indian cities: Delhi, Bengaluru, and Pune*, Atmos. Environ.

Cusworth, D.H., L.J. Mickley, E.M. Leibensperger, and M.J. Iacono (2017), *Aerosol trends as a potential driver of regional climate in the central United States: Evidence from observations*, Atmos. Chem. Phys.

PRESENTATIONS

- 2018 AGU Fall meeting, Washington D.C.
- 2018 14th International Workshop on Greenhouse Gas Measurements from Space, University of Toronto, Canada
- 2017 AGU Fall meeting, New Orleans, LA
- 2017 Sensor Location in Distributed Parameter Systems, IMA, University of Minnesota
- 2017 8th International GEOS-Chem meeting, Harvard University
- 2015 AGU Fall Meeting, San Francisco, CA
- 2015 7th International GEOS-Chem meeting, Harvard University
- 2012 NASA Develop Closeout Presentation Session, Washington D.C.

TECHNICAL SKILLS

Programming: R, Python, MATLAB, Unix
Design/Video: Photoshop, Illustrator, InDesign, Premiere, After Effects
Languages: Portuguese (professional proficiency), Spanish (limited proficiency)

TEACHING AND RESEARCH FELLOWSHIPS

- Teaching Fellow, Great Papers in Earth Sciences - Harvard University *Spring 2017*
- Teaching Fellow, Environmental Modeling - Harvard University *Fall 2014*
- NSF Graduate Research Fellowship Program - Honorable Mention *2015*
- Alan Howard Foundation Fellowship *2013 - 2014*

ACTIVITIES

- Member, American Geophysical Union
- Reviewer, Journal of Geophysical Research: Atmospheres