

# DANIEL CUSWORTH

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## EDUCATION

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**Harvard University** *September 2013 - May 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

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**Harvard School of Engineering and Applied Sciences** *June 2018 - Present*  
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  
Science and Engineering (JIFRESSE)** *August 2011 - March 2012*  
Research Assistant *Los Angeles, CA*

## PUBLICATIONS

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Cusworth, D.H., Jacob, D.J., Turner, A.J., Brandman, J., White, L., and C.A. Randles (in preparation), *Detecting anomalous methane emitters in oil/gas fields using satellite and surface observations*

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

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- 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

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**Programming:** R, Python, MATLAB, Unix

**Design/Video:** Photoshop, Illustrator, InDesign, Premiere, After Effects

**Languages:** Portuguese (professional proficiency), Spanish (limited proficiency)

## TEACHING AND RESEARCH FELLOWSHIPS

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- 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*