

# 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, minor in Film

## WORK EXPERIENCE

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**Harvard School of Engineering and Applied Sciences** *June 2018 - Present*  
Postdoctoral Research Fellow *Cambridge, MA*

- Implement algorithms to infer atmospheric methane concentrations from satellite images.

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

- Developed dynamic statistical models to predict box office performance from critic reviews.
- Performed social network analyses to understand interactions between Reddit users and films.

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

- Developed inverse modeling methods to classify super-emissions of methane from oil and gas production wells.
- Quantified the contribution of agricultural fire smoke to air quality in India. Constrained pollution estimates using data scraped from Indian governmental websites.

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

- Collected, organized, and analyzed lead and copper drinking water concentrations reported by states to EPA. Contributed to health assessment reports of several drinking water contaminants. Graphically designed official EPA reports and publications.

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

- Lead a group of three student interns. Predicted how future carbon dioxide emission reductions could be monitored using satellites.

## SKILLS

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