

DANIEL CUSWORTH

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EDUCATION

- 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

- NASA Jet Propulsion Laboratory** *September 2018 - Present*
Postdoctoral Research Fellow *Pasadena, CA*
- Work in the Carbon Cycle & Ecosystems Team.
 - Data fusion of multiple NASA datasets to track urban greenhouse gas emissions.
 - Develop automated methane emission source detection algorithms.
- Harvard School of Engineering and Applied Sciences** *June 2018 - September 2018*
Postdoctoral Research Fellow *Cambridge, MA*
- Implemented 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.

SKILLS

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