# Alexandra Abrahams
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## Education

**HARVARD UNIVERSITY**                                                                 Cambridge, MA
A.B., Computer Science Degree.                                              August 2015 – May 2018
Transferred to Harvard. Majored in Computer Science. Relevant Coursework: CS50, CS51, CS171 Data Visualization, CS20 Discrete Math, CS109A Data Science, CS121 Introduction to Theoretical Computer Science, CS96 Systems Design, CS105 Privacy and Technology. Spent Fall 2016 semester off campus interning on Clinton campaign.

**OXFORD UNIVERSITY**                                                                        Oxford, UK
Studied Philosophy, Politics and Economics (PPE).                     October 2013 – June 2015
Focused on economics, including quantitative economics and statistics.

## Relevant Work Experience

**PRECISION STRATEGIES**                                                          Washington, D.C.
**Data Analytics Intern**                                                        June 2018 – August 2018
- Engineered a new data pipeline for a client. Consolidated 4 separate scripts into 1 faster Python program, translated an R script into Python, implemented new data definitions from the client, and wrote both a 10-page overview memo for a non-technical audience and 10 pages of technical documentation for the client tech team.
- Developed visualization prototypes in Vega, a D3.js-based library, for version 2 of firm's client-facing software.
- Wrote programs in Python for scraping data from the RealClearPolitics, Cook Political Report, and FEC websites and automatically updating Google tracker spreadsheets with new data using the Google Drive API.
- Wrote SQL queries to import data, create lists for communications, and update client reports.

**HARVARD COMPUTER SCIENCE DEPARTMENT**                                  Cambridge, MA
**CS171 Data Visualization Course Teaching Fellow**           September 2017 – December 2017
- Helped to teach Harvard's data visualization course CS171 using the JavaScript library D3.js.
- Graded the problem sets and lab assignments of 15 students each week, and held weekly office hours for students.

**HILLARY FOR AMERICA**                                                                Brooklyn, NY
**Data Analytics Intern (Organizing Analytics Subteam)**        August 2016 – November 2016
- Programmed a web scraper in Python to correct ~230 false NC polling location addresses in our database just in time for Election Day, so that they could be displayed on the campaign website.
- Created a Python script to pull RealClearPolitics polling averages from any period into a spreadsheet.
- Wrote programs in Python to wrangle and clean datasets, and SQL queries to pull data.

**HARVARD GOVERNMENT DEPARTMENT**                                          Cambridge, MA
**Political Analytics Conference Organizing Intern**              January 2016 – April 2016
- Crafted a media advisory, communicated with the press, and managed the conference website.
- Screened hundreds of submissions to attend the conference and kept track of attendee responses.

## Technical Projects and Skills

**TwitterPredicts2016.com:** Led a team of 4 fellow Harvard students to discover whether Twitter data can predict or model 2016 primary election results. Wrote the Python code to get the correct data from the Twitter API using geofiltering, and the D3.js code for multi-series line graph with user filtering. **Used Python and JavaScript.**

**TrumpsRepublicans.com:** Scraped a list of all people running for Congress in 2016 as a Republican and their positions (endorse, non-endorse) on Donald Trump, and displayed it in a sortable table online. **Used Python and HTML.**

## Skills

Proficient in HTML, CSS, D3.js, SQL and programming in Python and JavaScript.