

# Alan Zablocki

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## Technical Skills

- Fortran, R, Python, Pandas, Numpy, SciPy, Matplotlib, SQL, Java, Bash, Shell scripting
- Machine Learning, Regression, Random Forests, Scikit-learn, Caret, Version Control (git)
- APIs, Flask, Heroku, Bokeh, d3.js, HTML, CSS

## Professional Experience

### **The Data Incubator, New York City, NY**

*Data Science Fellow*

09/2016–10/2016

- Selected from 3000 applicants (2% intake) for a rigorous data science training fellowship
- Created a New York social graph by web scraping and parsing 100,000 photo-captions
- Used neuro-linguistic programming to perform sentiment extraction from 1 million Yelp reviews and developed a machine learning pipeline to predict a new venue's popularity
- Implemented a time series analysis to predict temperature based on historical weather data
- Performed a linguistic analysis on English (11GB) and Thai (160MB) Wikipedia articles using MapReduce to obtain character entropy of extracted words and n-gram statistics

### **Tribeca Flashpoint College, Chicago, IL**

*Adjunct Astronomy Faculty*

05/2015–12/2015

- Developed and taught an Introductory Astronomy course to 12 undergraduate learners

### **The University of Chicago, Chicago, IL**

*Research Assistant*

09/2008–12/2014

- Analyzed large cosmological datasets using Bayesian analysis and parallel computing
- Designed a data pipeline to measure model parameters using Markov Chain Monte Carlo
- Formulated a novel data compression algorithm to estimate model parameters

### **NASA Capstone Outreach Program, Chicago, IL**

*Lab Instructor and Teaching Assistant*

06/2011 & 06/2010

- Trained students and teachers in writing SQL scripts to mine data from astronomy catalogs

## Education

### **University of Chicago, Chicago, IL**

*Ph.D. in Astronomy & Astrophysics*

12/2014

### **University College London (UCL), London, England**

*M.S. Astrophysics, 1st Class Honors*

06/2008

### **California Institute of Technology, Pasadena, CA**

*Exchange Student, Summer Undergraduate Research Fellowship (SURF)*

09/2007

## Citizenship

US Permanent Resident