

Jeffrey M. Fossett

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Professional Experience

Airbnb, Inc.

Data Scientist

San Francisco, CA

Sep. 2014 - Present

- Data Scientist on the Marketplace Booking team, responsible for a range of tasks including: quantitative research, experiment design & analysis, machine learning, metric development, data visualization and dashboarding, decision support.
- *Projects:*
 - *Predictive Modeling to Improve Host-Guest Matching:* Collaborated with engineers to design & implement a machine learning model to predict host cancellations & improve Airbnb matching.

Booz Allen Hamilton

Consultant / Data Scientist

Boston, MA

Jan. 2014 - Jun. 2014

- Consultant and data scientist on commercially-focused Advanced Analytics team within the Strategic Innovation Group.
- *Projects:*
 - *Document Clustering for Free-Text Contest Submissions:* Conducted an NLP analysis in Python that used vector-space modeling, LSA, and k-means clustering to extract common themes from the raw text of project proposals for an internal competition; presented results to non-technical stakeholders.

Education

Harvard University

Master of Arts in Statistics (expected)

Cambridge, MA

Aug 2017 - June 2018

- Accepted to begin study in Fall 2017.

Williams College | GPA: 3.92 (Math GPA: 4.00)

Bachelor of Arts, *Magna Cum Laude*

Williamstown, MA

Sep. 2009 - Jun. 2013

- *Majors:* Mathematics, Philosophy
- *Concentration:* Cognitive Science
- *Honors:* Phi Beta Kappa - Junior Year Inductee (top 5%); Dean's List (all semesters)
- *Projects:*
 - *Senior Colloquium on Latent Semantic Analysis (LSA):* Independently studied the mathematical foundations of LSA, a statistical method in natural language processing, and presented findings at a local math conference.

Exeter College, Oxford University | GPA: 4.00

Visiting Student, Williams-Exeter Programme at Oxford

Oxford, UK

Sep. 2011 - Jun. 2012

- Selected by Williams College professors to take part in program to study at Oxford University
- *Projects:*
 - *Neural Networks for Language Acquisition:* Used a MATLAB-based simulator to train & evaluate neural networks as a model of human learning of the english past tense.

Skills & Interests

Technical Skills: **Python** {NumPy, SciPy, Pandas, Scikit-learn, NetworkX, NLTK, gensim, BeautifulSoup}, **R** {ggplot2, dplyr, caret, tm, zoo}, **SQL**, **Hive**, **MongoDB**, **Hadoop**, **Matlab / Octave**, **Java**, **AWS EC2 and S3**, **Gephi**, **LaTeX**

Interests: **Technology / Internet / Data Ethics & Policy, Causal Inference, Experiment Design & Analysis, Econometrics, Matching Markets, Natural Language Processing, Sharing Economy**