

Andrew Roberts

Somerville, MA | agr.roberts@gmail.com | 630-689-8557 | <https://www.linkedin.com/in/andrew-roberts5/>

EDUCATION

- Tufts University** | Medford, MA May 2018
BS, Quantitative Economics
GPA 3.92, *Summa Cum Laude*
- Harvard Extension School** | Cambridge, MA Sep 2018-May 2019
Three upper-level mathematics/statistics courses as non-degree student
- Boston University** | Boston, MA Sept 2019-Present
Four upper-level mathematics/statistics courses as non-degree student, including two graduate courses

COURSEWORK

Mathematics, Statistics

Real Analysis I, II	Real Analysis (Graduate)
Probability (Graduate)	Mathematics of Data Analysis
Probability, Statistics, Bayesian Statistics	Mathematical Statistics
Linear Algebra	Calculus I, II, III
Complex Variables	Mathematical Modeling and Computation

Computer Science

Introduction to Computer Science	Discrete Mathematics
Data Structures	Natural Language Processing

Economics

Econometric Analysis	Monetary Econ., Quantitative Financial Econ.
Environmental Economics, Topics in Env. Econ.	Quantitative Intermediate Macroeconomic Theory
Foundations of Quantitative Economics	Intermediate Microeconomic Theory

SKILLS

Computer: R, Python, C++, SQL, Slurm, Pandas, NumPy, Scikit-learn, Stata, Git, Linux, Excel
Foreign Language: Spanish (working proficiency)

WORK EXPERIENCE

- Federal Reserve Bank of Boston Senior Research Assistant**, Boston, MA June 2018-Present
Working on uncertainty quantification analysis for supervisory stress testing models.
- World Bank Research Assistant/Data Analyst**, Cambridge, MA March 2018-July 2018
Collected Brazilian election data and implemented regression discontinuity design.
- Wiley Education Services Decision Sciences Intern**, Oak Brook, IL June 2017-December 2017
Implemented Random Forest model to predict the size of graduate school programs.
- Patrivalor Intern**, Madrid, Spain Feb 2017-May 2017
Wrote Python scripts to automate the delivery of financial information to clients.
- BW Research Partnership Intern**, Boston, MA June 2016-Feb 2017
Designed/implemented SQL database for energy employment data. Performed analysis in Tableau.

PERSONAL AND ACADEMIC PROJECTS

Code and Papers on GitHub: <https://github.com/arob5>

Notable Projects: Image Compression with PCA, Non-Neg Matrix Factorization for NLP, Cond. Random Field in Scala, Nearest Pos-Def Matrix in C++, Clustering Analysis on Boston Housing Dataset

Writing Sample: *Climate Change and Malaria in Brazil: A Research Proposal*