

## EDUCATION

### Stanford University Graduate School of Business

Stanford, California, USA

*PhD Student, Quantitative Marketing*

2025–Present

### Haverford College

Haverford, PA, USA

*BA in Economics and Mathematics*

2018–2022

- **Relevant Economics Coursework:** Advanced Microeconomics, Mathematical Economics, Quantitative Economics, Thesis
- **Relevant Math Coursework:** Analysis, Linear Algebra, Stochastic and Numerical Methods, Quantitative Finance, Probability, Applied Multivariate Statistical Analysis

## PROFESSIONAL EXPERIENCE

### Research Analyst, Federal Reserve Bank of Philadelphia

Philadelphia, PA, USA

Jun. 2022–Present

- Developed novel methodology to uniquely identify homeowners between properties using co-ownership record and mailing address history
- Leveraged concepts from network theory and linear algebra to convert methodology into optimized algorithms
- Authored more than 5,000 lines of R and SQL code to apply algorithms to hundreds of gigabytes of property-level tax assessment and transaction data
- Created new spatial data to measure how fragmentation of parcel use types affects long-term housing development
- Automated chart production in Python for Monetary Policy briefings
- Modernized internal data collection and processing by scraping available data, removing reliance on 3rd party vendors

### Volunteer Alumnus Teaching Assistant, Haverford College

Haverford, PA, USA

Jan. 2023–May 2023

- Lead problem solving sessions for Advanced Microeconomics, the terminal microeconomics course
- Adapted to student needs, teaching concepts from probability theory, calculus, and intermediate microeconomics

### Research Intern, Federal Reserve Bank of Philadelphia

Philadelphia, PA, USA

Jun. 2020–May 2022

- Analyzed survey results from the Manufacturing Business Outlook Survey for the publication of monthly reports about the local business climate
- Generated a dashboard of statistics and charts on COVID-19's economic impacts

### Teaching Assistant, Haverford College

Haverford, PA, USA

Sep. 2021–Dec. 2021

- Answered student questions about econometrics
- Graded problem sets and provided constructive commentary

## AWARDS AND HONORS

- **Michael M. Weinstein Prize in Economics**, Haverford College May 2022  
For having made the greatest overall contribution to departmental life. Awarded for contributions in class, with peers, and for starting the widely used Economics Question Center.
- **Runner-Up, Holland Hunter Thesis Prize**, Haverford College May 2022  
For outstanding senior theses in economics. One of three selected as finalists for the award.

## SKILLS

**Programming:** R, Python, SQL, Terminal (Bash, PowerShell), Julia, Stata, Matlab.

**Technical:** git (GitHub/GitLab), Apache Hadoop, T<sub>E</sub>X.