

Sara Ho

Sara.A.ShiHo@gmail.com | [linkedin.com/in/Sara-ShiHo](https://www.linkedin.com/in/Sara-ShiHo) | github.com/Sara-ShiHo

EDUCATION

Northwestern University, McCormick School of Engineering, Evanston, IL Sep 2020 – Dec 2021
MS in Analytics

Virginia Commonwealth University, Richmond, VA Aug 2017 – Dec 2019
Graduate coursework: Macroeconomics, Regressions, Advanced Linear Algebra, Data Structures

University of Virginia, College of Arts and Sciences, Charlottesville, VA May 2017
BAs with Honors in Applied Statistics and Economics GPA: 3.65

EXPERIENCE

Trilogy Education, Richmond, VA and Remote

Senior Tutor and Teaching Assistant Jun 2019 – Present

- Led over 400 one-on-one sessions teaching programming and analytical skills to over 70 students
- Maintained a positive learning environment; averaged a 4.9 out of 5 on student evaluations
- Taught material spanning two courses and contributed improvements to instructional material
 - Data Analytics and Visualization course covered python, JavaScript, web frameworks, and machine learning
 - FinTech course covered time series analysis, natural language processing, AWS, and blockchain

Federal Reserve Bank of Richmond, Richmond, VA

Jun 2017 – Dec 2019

Research Associate

- Used Stata, python, and R to conduct empirical research for publication in academic journals
- Analyzed large panel data with over 600 million observations on credit default swap trades; provided evidence to support a new theory of financial intermediation in decentralized markets
- Co-authored a paper on discount window lending to financial institutions in need of short term credit; extracted and analyzed financial data to build case studies on frequent borrowers and the trajectory of their financial health
- Used webscraping and APIs to build a searchable database of researchers working in the field of macroeconomics
- Presented own research and research from seminal academic papers to economists and other research associates

Center for Automata Processing, Charlottesville, VA

Sep 2016 – May 2017

Automata Processing Ambassador

- Collaborated with machine learning researchers to clean medical data for UVa's Center for Global Health
- Conducted regression analysis to test the effectiveness of a program aimed at reducing viral loads in HIV patients

Merkle, Charlottesville, VA

Jun 2016 – May 2017

Paid Search Intern

- Analyzed digital ad campaign performances and summarized data into weekly reports for clients
- Expanded outreach by analyzing and translating Spanish-speaking customers' search engine patterns into ad copy
- Built a text analysis algorithm to eliminate redundant search engine ads and decrease costs for clients

LEADERSHIP

WXTJ 100.1 UVa Student Radio, Charlottesville, VA

May 2015 – May 2017

Station Director

- Managed all aspects of a student-run radio station, including long term projects and day-to-day operations
- Organized annual fundraisers, managed the leadership team, recruited and coordinated 120 volunteers

SKILLS

Programming

Python, R, Java, SQL, HTML, CSS
JavaScript, D3, Matlab, Stata, SAS, VBA

Technical Knowledge

Machine Learning
Web Development, Data Visualization

Languages

English
Mandarin, French