

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
Expected coursework by summer 2021: Deep Learning, Big Data (Hadoop and Spark), DevOps (Kubernetes), AWS

Virginia Commonwealth University, Richmond, VA Aug 2017 – Dec 2019
Graduate coursework: Regressions, Advanced Linear Algebra, Object-Oriented Programming and Data Structures

University of Virginia, College of Arts and Sciences, Charlottesville, VA Aug 2013 – May 2017
BAs with Honors in Applied Statistics and Economics

SKILLS

Programming: Python, Java, R, SQL, HTML, CSS, JavaScript, Matlab, Stata, SAS, VBA
Tools and Frameworks: Pandas, Sci-kit Learn, OpenCV, Flask, Tableau, D3.js, Git, Unix
Technical Knowledge: Machine Learning, Natural Language Processing, Web Development, Customer Value Models

PROJECTS

Product Classification Dec 2020 - Present

- Classified large, unstructured product data using Natural Language Processing models

United Way, Minneapolis, MN Oct 2020 - Present

- Developed auto-generated scorecards highlighting constituents' urgent needs to local and state policymakers
- Analyzed data and mapped trends on needs in Minnesota throughout the COVID-19 pandemic

Feinberg School of Medicine, Evanston, IL Sep 2020 – Dec 2020

- Digitized hand-drawn scanned images using computer vision denoising and alignment techniques
- Used digitized results to create informative visualizations of patient pain development before and after surgery
- Accepted for presentation at the US Association for the Study of Pain's 2020 Meeting

EXPERIENCE

Trilogy Education, Richmond, VA and Remote Jun 2019 – Present
Senior Tutor and Teaching Assistant

- Led over 500 one-on-one sessions teaching programming to over 80 students
- Maintained a positive and encouraging learning environment; averaged a 4.9 out of 5 on student evaluations

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

Center for Automata Processing, Charlottesville, VA Sep 2016 – May 2017
Automata Processing Ambassador

- Collaborated with machine learning researchers to analyze 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