

Stephen Min

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<https://topologicaldonut.github.io/>

EDUCATION

Simon Fraser University

Master of Arts in Economics

Burnaby, BC

Aug. 2023 – Aug. 2024

- Focused on advanced economic theory, applied econometrics, and causal inference.
- Coursework included empirical projects, development of research proposals, and culminated in an independent research paper.

University of Texas at Dallas

Bachelor of Science in Economics and Applied Mathematics

Richardson, TX, USA

Jan. 2018 – Dec. 2022

SKILLS

Programming/Statistical Languages: R, Python, SQL

Other Technologies: Microsoft Office (Excel, Word, PowerPoint)

EXPERIENCE

Teaching Assistant

Simon Fraser University

Aug. 2023 – May 2024

Burnaby, BC

- Provided academic support for introductory economics courses by grading assignments and exams, holding regular office hours and tutorial sessions, responding to student inquiries via email, and organizing study materials.
- Guided students in using Excel (including topics such as VLOOKUP, pivot tables, and data validation) and R (basic syntax, tidyverse, ggplot2) for economic data analysis.
- Assisted students in performing exploratory data analysis, creating visualizations, and interpreting statistical findings.
- Facilitated discussions on basic probability theory and mathematical statistics to strengthen students' foundational knowledge.

Tutor

Victory Step Education

Sep. 2022 – July 2023

Plano, TX, USA

- Managed a concurrent caseload of 5-10 K-12 students, providing personalized tutoring in standard test preparation (SAT, AP, etc.) and core academic subjects.
- Delivered detailed session reports to both parents and management for the purposes of documenting and communicating student progress, challenges, and improvement strategies.
- Achieved notable student improvements such as increases of 200+ points for the SAT.

PROJECTS

Master's Research Paper

- Applied a causal machine learning algorithm (generalized random forest) to investigate patterns of racial discrimination in hiring practices.
- Conducted in-depth analysis of algorithm outputs to uncover key trends and relationships.
- Authored a comprehensive research paper detailing relevant literature, methodologies, analysis, and conclusions.

Vancouver Crime Analysis

- Collected and merged public crime data from the Vancouver Police Department and local weather data to create a comprehensive dataset for analysis.
- Analyzed the impact of daylight saving time transitions on crime rates using statistical methods and data visualizations in R.
- Synthesized findings into a comprehensive report, including explanations of methodology and implications.

UK Tax Policy Analysis

- Gathered and processed economic data from the Office for National Statistics (ONS) website to create a time series dataset.
- Evaluated the impact on prices of a specific UK tax policy change using time series modeling (ARIMAX).
- Developed a report that addressed methodological challenges and presented results, visualizations, and analysis.