Stephen Min

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https://topologicaldonut.github.io/

Education

Simon Fraser University — Burnaby, BC
Master of Arts in Economics — *Aug. 2023 – Aug. 2024*

University of Texas at Dallas — Richardson, TX, USA
Bachelor of Science in Economics and Applied Mathematics — *Jan. 2018 – Dec. 2022*

Skills

Programming/Statistical Languages: R, Python, SQL
Other Technologies: Microsoft Office (Excel, Word, PowerPoint)

Experience

Teaching Assistant — Aug. 2023 – May 2024
Simon Fraser University — *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 — Sep. 2022 – July 2023
Victory Step Education — *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.