# Stephen Min

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https://topologicaldonut.github.io

## EDUCATION

**Simon Fraser University**                                                     Burnaby, BC
*Master of Arts in Economics*                                        *Sep. 2023 – Sep. 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**                                    Richardson, TX, USA
*Bachelor of Science in Economics and Applied Mathematics*           *Jan. 2018 – Dec. 2022*

## SKILLS

**Languages**: R, Python, SQL
**Technologies**: Microsoft Office (Excel, Word, PowerPoint, Outlook), Tableau

## EXPERIENCE

**Private Tutor**                                                    Aug. 2023 – Present
*Time Education & Independent*                                             *Richmond, BC*
- Provide comprehensive instruction in university-level economics, advanced mathematics (real analysis, abstract algebra), statistics, basic physics, and ESL.
- Develop customized study materials and structured lesson plans tailored to individual student needs and learning styles.
- Design and assign homework to reinforce learning objectives and track student progress.
- Improve student performance across subjects, such as raising abstract algebra grades and guiding early high school students to achieve scores of 3-4 in AP Economics with no prior background.

**Teaching Assistant**                                              Aug. 2023 – May 2024
*Simon Fraser University*                                                  *Burnaby, BC*
- Provided academic support for 30-60 students per semester for Introductory Micro/Macroeconomics and Introduction to Economic Data and Statistics through regular office hours, email correspondence, and tutorial sessions.
- Independently designed and delivered weekly tutorial sessions while coordinating with professors on teaching responsibilities and student concerns to maintain alignment with course objectives.
- Collaborated with teaching teams to grade exams for 200+ students, ensuring consistent evaluation standards and meeting strict deadlines.
- Supported students in developing Excel skills from basics through advanced features (XLOOKUP, pivot tables, data validation) and R programming (basic syntax, tidyverse, ggplot2) for applications in data cleaning, economic analysis, and probability simulations.

**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

**Detecting Discrimination Patterns with Machine Learning** | *R*
- 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 systemic patterns in hiring discrimination across different candidate profiles.
- Authored a comprehensive research paper detailing relevant literature, methodologies, analysis, visualizations, and conclusions.

**UK Tax Policy Analysis** | *Python, SQL, R*
- Developed a data pipeline in Python to scrape and validate economic data from the Office for National Statistics(ONS), storing it in a local DuckDB database.
- Wrote complex SQL queries to standardize annually rebased price indices and structure them for time series analysis.
- Applied time series modeling (ARIMAX) in R to evaluate the price impact of a specific UK tax policy change.
- Created a report that addressed methodological challenges and presented results, visualizations, and analysis.