Lilly Kirby-Rivera

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Objective

Applied microeconomics researcher seeking an entry-level position in data science where I may apply my knowledge of statistical programming and data analysis to solve real-world problems.

Education

M.S.   **The University of Texas at Dallas**, Economics   Aug. 2019 - May 2020
- GPA: 3.8/4.0
- Obtained graduate certificate in Economic and Demographic Data Analysis

B.S.   **The University of Texas at Dallas**, Economics   Aug. 2017 - May 2019
- GPA: 3.9/4.0
- Participated in fast-track accelerated master's degree program.

Experience

The University of Oklahoma, Graduate Research Assistant   Norman, OK
Aug. 2022 - Present
- Worked for the industrial organization economics research team, contributing to projects on entry deterrence and pharmaceutical pricing.
- Taught introduction level courses in microeconomics and macroeconomics.

Club Z! In-Home Tutors, Private Tutor   Dallas, TX
June 2003 – Aug 2003
- Tutored middle school and high school students in mathematics and study skills.

Uplift Education, IB Mathematics Instructor   Irving, TX
Mar. 2021 – Jan. 2022
- Taught 11th-12th grade IB mathematics, ACT math, and college readiness.

The University of Texas at Dallas, Teaching Assistant   Richardson, TX
Aug. 2019 – May. 2020
- Assisted in Dr. Arce's Principles of Microeconomics course by grading and proctoring exams.
- Provided tutoring for undergraduate economics students.

Projects

Portfolio: GitHub Repository ⧉

Metacritic Data Visualization and Analysis
- Cleaned, visualized, and analyzed data from Metacritic on video games and their user/critic scores.
- Tools Used: Python, Jupyter Notebook

FDA Orange Book Historical Data Construction
- Combined and cleaned data from all annual Orange Book editions (1984 - 2024) to create a master dataset.
- Tools Used: R, RStudio, Microsoft Excel

Pharmaceutical Patent Network Analysis
- Data collected manually from Google Patents and Patent Center to visualize and analyze networks of removed Orange Book patents.
- Tools Used: Python, Jupyter Notebook

Skills

Languages: R, Python, SQL

Technologies: RStudio, MySQL, Tableau, Visual Studio Code, Qualtrics, Stata, Excel

Other: Economic optimization, data visualization, data cleaning, data analysis, data scraping, risk analysis, survey design, data presentation