

Lilly Kirby-Rivera

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Objective

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

Education

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| M.S. The University of Texas at Dallas, Economics | Aug. 2019 - May 2020 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• GPA: 3.9/4.0• Participated in fast-track accelerated master's degree program. | |

Experience

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| The University of Oklahoma, Graduate Research Assistant | Norman, OK
Aug. 2022 - Present |
| <ul style="list-style-type: none">• 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
Jan. 2022 - Aug. 2022 |
| <ul style="list-style-type: none">• Tutored middle school and high school students in mathematics and study skills. | |
| Uplift Education, IB Mathematics Instructor | Irving, TX
Mar. 2021 – Jan. 2022 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• Assisted in Dr. Arce's Principles of Microeconomics course by grading and proctoring exams.• Provided tutoring for undergraduate economics students. | |

Projects

Portfolio: <https://github.com/lillykirby/Portfolio> 

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, 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