

# Richard Jacob Applin

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## WORK EXPERIENCE

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### Data Analyst, Fidelity Investments

*April 2023 – Present*

- Working as a data analyst collecting, integrating, and analyzing performance and learning data to assess the impact of learning and development initiatives
- Earned an Excellence in Business Impact reward for regression analysis linking job performance to confidence that leaders used to justify expansion of pilot programs designed to increase new-hire confidence
- Advised on the rollout of several pilot programs to assure proper randomization and ultimately enable A/B like testing to provide business leaders credible evidence of impact
- Mentored an intern throughout an analytics project, including providing guidance on writing REST APIs for various platforms, data wrangling in Python and SQL, and designing presentations of results for leaders
- Delivered upskilling session to team members on various machine learning and statistical algorithms, including KNN, KMC, and regression to boost the team's data capabilities

### Graduate Assistant/Instructor, University of Kentucky

*August 2019 – May 2023*

- Worked as a graduate assistant providing research and teaching support to the economics department
- Collected and aggregated data on COVID-19 policies concerning public schools to support economic research investigating the impact of the pandemic on student performance
- Taught various economics and business statistics courses both online and in person and received evaluations that consistently outperformed department averages

## EDUCATION

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### Ph.D., Economics, University of Kentucky

*August 2019 – Present (Expected: Spring 2025)*

- GPA: 4.0
- Relevant Courses: Research Methods, Econometrics/Statistics, Causal Inference
- Engineered an SQLite database out of 8,000 raw CSV files to enable easy extraction and analysis of Inside Airbnb data for dissertation purposes
- Used SQL to process and prepare hundreds of millions of rows of raw data for demand estimation models

### M.A. Economics, Western Kentucky University

*August 2017 – May 2019*

- GPA: 4.0
- Relevant Courses: Big Data Methods, Statistical Methods, Forecasting
- Named Outstanding Graduate Student

## SKILLS

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### Programming Languages: Statistical Methods

SQL, Python (SciKit, XGBoost, Pandas), R (Tidyverse), SAS  
Linear/Logistic Regression, Clustering, K-Nearest Neighbors,  
Decision Trees

### Tools and Platforms:

AWS, Snowflake, Tableau, VSCode, Github