

EXPERIENCE

- Lyft** New York, NY
• *Senior Data Scientist - Rideshare / Delivery Team* Mar 2022 - Present
Data Scientist - Customer Platform Science / Integrity Team Oct 2018 - Mar 2022
- **Delivery:** Led growth and quality data science for Lyft delivery. Identified opportunities, defined and built key dashboards to track KRIs. Created data based product designs that reduced delivery failures by 8%.
 - **Segmentation and Strategy:** Defined and drove cross-team alignment on Integrity KRIs. Segmented losses to determine priorities for product, engineering, science, and operations. Led analytics sync for team of 12.
 - **Data and Modeling:** Architected core source of truth tables for financial loss data. Engineered features to label fraudulent accounts, detected and alerted on time-series anomalies, and improved early loss forecasting by 25%.
 - **Product Analytics:** Led product analytics and experimentation for Integrity team. Identified opportunities, co-designed, implemented and measured solutions for savings of >\$5M/year. Defined custom success metrics and drove cross-team alignment on payments product initiatives. Created standardized experimentation process, decision making criteria, and post-launch monitoring.
- The Brattle Group** San Francisco, CA
• *Research Analyst* Jul 2016 - Sep 2018
- **Data Management:** Created diverse data ingestion pipelines for multiple projects. Wrote and documented ETL processes, with widely-used, flexible cleaning functions, enabling many teams to more quickly perform analyses.
 - **Data Processing:** Sped up existing code run-time (by 10x) without loss of functionality. Optimized model runs to finish in days instead of weeks on a tight timeline. Determined variable importance from hundreds of variables using MCA, PCA, and t-SNE. Established firm-wide coding standards for R and SQL by giving formal trainings.
 - **Data Presentation and Insights:** Discovered and visually supported hypotheses for clients based on data trends, including custom interactive geospatial maps and D3-style network graphs.
 - **Blockchain:** Scrapped data with custom Python and R scripts. Calculated implied interest rates from bitcoin spot and futures prices with anomaly detection. Assembled blockchain research for Brattle whitepapers.
- Delta Analytics** San Francisco, CA
• *Data Fellow and Teaching Fellow (Nonprofit Volunteer)* Jan 2017 - Sep 2018
- **Kiva:** Extracted features from open data (satellite light, electricity use) to predict loan repayment in rural Kenya.
 - **Machine Learning Course:** Authored Jupyter notebook modules (code and curriculum) on natural language processing, data visualization, Naive Bayes classification, and regression.
 - **BUILD:** Provided client guidance on data strategy and a reproducible report that takes raw data as input and highlights top features of program effectiveness.
- Tudor Investment Corporation** Greenwich, CT
• *Quantitative Analytics (Intern)* Jun 2015 - Aug 2015
- **Price Modeling:** Optimized bond price estimation for 30x speed, maintaining accuracy using SciPy and pandas. Wrote modules to universally convert swap and bond pricing across currencies and tenors in Python.

EDUCATION

- **University of Pennsylvania** Philadelphia, PA
Bachelor of Arts in Mathematical Economics — Minors in Computer Science and Statistics Aug 2012 – May 2016

PROJECTS

- **'Handy' R Package:** Open source R package containing useful functions for common data handling tasks.
- **Shiny Web Application:** Viz built using R Shiny, D3, and Sheets imports to rank Euro football and office foosball.

SKILLS

- **Tools:** SQL (Presto, Hive), Python (pandas, scikit, pytorch, etc), R (tidyverse, ggplot, etc), Git, dbt, Excel
- **Skills:** Product experimentation, ETL, data mining & visualization, classification & regression, feature selection, NLP