Andrew Heinzman

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Education:

 University of California, Los Angeles PhD, Economics (Empirical Industrial Organization) MA, Economics 	2023 2020
 University of Virginia BA, Economics (High Distinction) and Statistics 	2016

Technical Skills:

Programming Languages: R, SQL, Stata

Data Scientist Techniques: Supervised Machine Learning, Ensemble Methods, Model Specification Testing, Instrumental Variable Regression, Causal Inference Techniques

Economic Modeling: Demand Estimation, Discrete Choice Frameworks, Structural Estimation Methods, Predictive Modeling, Counterfactual Policy Simulation

Professional Experience:

Cornerstone Research, Associate

- Experienced in antitrust casework on topics including mergers, algorithmic collusion, and vertical integration.
- Conducted economic analysis that led to Alaska Airlines, Hawaiian Airlines merger clearance by the DOJ.
- Built discrete choice models of demand using **Stata** to simulate consumer choices and predict policy impacts on prices and sales.
- Applied structural econometric modeling to analyze market competition, developing custom simulation algorithms in **R** to estimate demand elasticities and evaluate potential merger outcomes.
- Analyzed the feasibility of merger and divestiture scenarios, creating maps and tables leveraging **R** and **Excel** to evaluate market concentration under varying geographic and product market definitions.
- Designated and managed teams of **3–6** data analysts for **9 month** long projects in order to perform data cleaning, data visualization, and document reviews.

Amazon, Economist – Intern

- Worked on the People Experience and Technology Central Science (PXTCS) team in order to optimize warehouse staffing levels.
- Designed auction based mechanisms by reviewing academic literature and interviewing internal teams about successful current processes which led to increased on time shipping performance.
- Performed simulations using **Python** to forecast the financial cost of auction mechanisms based on historical labor data.

Cornerstone Research, Analyst

 Utilized data science techniques such as Regression Analysis, Big Data Management, and Data Visualization to calculate damages and show causality in support of PhD experts during legal testimony.

Hospital Merger

- Analyzed insurance claims data in **SAS** to determine the relative bargaining power of hospitals and insurers.
- Normalized prices based on service quality in R to allow for comparisons across specialties within a hospital system.
- Examined the causal relationship between market concentration and quality-adjusted prices to determine the hypothetical impact of the proposed merger on patients.

ERISA

 Investigated 401(k) participant investment patterns to determine how 401(k) plan participants are individually impacted by the choice of investment options offered by the plan.

June 2022–August 2022

July 2016–September 2018

September 2023–present

 Developed and implemented a new algorithm in R to assess new damages that reduced runtime by over 66%.

Rule 10b-5

- Implemented event study methodology in **Stata** to calculate damages resulting from inflation in stock price.
- Queried news databases and reviewed articles to determine what information was new and relevant to the at-issue decline in stock price.

Commodities Consulting

- Analyzed options trades to ensure the proper commodity-hedging strategy was followed.
- Determined improper futures transactions that resulted in unnecessary exposure to the underlying commodity and the resulting gains/losses.

Teaching Experience:

Instructor

- Econ 11: Microeconomic Theory
- Econ 97: Economics Toolkit

Teaching Assistant

- Econ 5: Econ for Everyone
- Econ 11: Microeconomic Theory
- Econ 106P: Pricing and Strategy

Summer 2021 Fall 2021

Winter 2021, Spring 2022 Winter 2020, Spring 2020, Fall 2020, Spring 2021, Winter 2022 Fall 2019

Research Papers:

New Product Introductions, Retailer Learning, and Pricing (Job Market Paper)

- **Summary**: Modeled cross-market demand for new products to analyze how retailers optimize their pricing strategies and product rollouts across a national network of stores.
- Techniques: Random Utility Models, Simulation-based Estimation Methods, Counterfactual Simulation Design, Boosted Regression Trees

High Frequency Traders Slow Information Revelation

- **Summary**: Analyzed the competitive interaction between high-frequency traders and information-based investors in a game theory model. Demonstrated how HFTs' speed advantages improve market liquidity while simultaneously slowing the incorporation of new information into asset prices.
- **Techniques**: Game Theoretic Modeling, Comparative Statics