Adam R. **Rohde**

Los Angeles, California

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Core Competencies

Programming Languages Proficient: R, SAS, Stata, LaTeX, Excel; Familiar with: Python, SQL, C++
Subject Matter Expertise Healthcare Data Analysis, Econometrics, Analysis of Large (>1TB) Health Insurance Claims Datasets
Professional Interests Optimization, Causal Inference, Statistical Learning

Education

University of California, Los Angeles

Masters of Science in Statistics *2019 - 2021*

- Courses: Matrix Algebra and Optimization; Statistical Modeling and Learning; Machine Learning; Probability; Research Design and Sampling; Statistical Programming

Boston College

Bachelors of Arts; *cum laude*; Double Major: Mathematics and Economics *2009 - 2013*

- Honors in Economics; Giffuni Prize for outstanding Honors Thesis in Economics; Dean's List All Semesters; Undergraduate Research Fellow; Led Fed Challenge Team
- Courses: Probability; Mathematical Statistics; Differential Equations; Numerical Analysis; Linear Algebra; Multivariable Calculus; Real Analysis; Econometrics

Experience

Charles River Associates: Antitrust and Competition Economics Practice *Oakland, CA & Boston, MA*

Consulting Associate (Data Scientist) *(2015-2019)* *2012 - 2019*

- With focus on healthcare industry, designed and conducted empirical analyses of market dynamics related to mergers, acquisitions, and antitrust litigations. Explored, cleaned, manipulated, and analyzed large healthcare datasets (e.g., claims data, prescription data) to understand competition, pricing, and client operations.
- Promoted from Associate to Consulting Associate one year ahead of the rest of Associate class.
- Selected as one of 8 "SAS Experts" from over 500 global consulting staff at Charles River Associates. Assisted colleagues with difficult tasks and problems in SAS.
- Led a team of 3 analysts and coordinated with another consulting firm and 5 of the largest national health insurers in an ongoing antitrust litigation brought against a hospital system. Used terabytes of health insurance claims data for the following. Working in R and SAS:
  - Implemented semiparametric discrete choice models to calculate patient willingness-to-pay for hospital services.
  - Estimated prices for services and fit regression models of price using a wide range of hospital-specific features.
  - Calibrated a vectorized demand system and defined markets by optimizing a system of equations using diversion ratios, estimated prices, and margins.
- Directed a team of 3 analysts and coordinated with clients in an antitrust litigation seeking up to $100M in damages between 3 of the largest national health insurers and a group of ambulatory surgical centers. Analysis led to a favorable settlement. Working in SAS and Stata:
  - Designed and applied statistical models of prices faced by health insurers and enrollees in selection of providers.
  - Created market definition, service area, and market share analyses focused on the market for outpatient surgeries.
- Coordinated team of 4 analysts related to the $1.9B acquisition by CVS of Target's 1,660 pharmacies. Analyses showed little to no potential danger to consumers and Federal Trade Commission approved acquisition. Working in SAS:
  - Analyzed market concentration for thousands of localized geographic markets with terabytes of prescription-level data.
  - Devised an event study using regression analysis to evaluate the impact of new CVS pharmacies on Target sales/prices.
- Evaluated the merits of opposing expert's damages model in a litigation seeking over $150M in damages related to allegations of poor performance of an iron ore mine. Ran model under different assumptions, recalculated prices for marginal customers, revised growth trajectories, and corrected statistical models of relationships between inputs and expected outputs.
- Mentored four Analysts and Associates; responsibilities included coaching programming, data analysis, presentation skills, organizational best practices, career development, and relationship development.

Associate *(2014-2015)*

- Promoted from Analyst six months ahead of the rest of Analyst class.
- Worked in a role equivalent to a senior staff member to create a capacity closure model in SAS used to evaluate the potential competitive effects of a merger in the wallboard industry. The merger created a global wood products company with sales over $1.6B. The model is now standard practice for colleagues when assessing a company's ability to raise prices post-merger.
- Worked on numerous pre-deal mergers and acquisitions, analyzing the potential competitive effects of the proposed deals. Variously worked in R, SAS, and Stata.
  - Designed statistical models of price correlation, co-integration, and arbitrage related to the global fertilizer market.
  - Estimated models using customer-to-store drive times at the census-block level to evaluate the potential diversion of supermarket customers.
  - Preformed event-study regression analysis of the impact of a merger in the pay-day credit market on hundreds of individual lending branches.
  - Conducted regression analyses of the determinants of prices in the national industrial water pipe market.
- Led corporate recruiting for the Antitrust and Competition Economics Practice in 2015.

Analyst *(2013-2014)*

- Led Green Office Initiative (a sustainability project) for the Boston Office of CRA in 2013 and 2014.

Analyst Intern *(2012-2013)*

Research *Boston, MA*

Rational Bias in Inflation Expectations (with Robert Murphy) *2013 - 2015*

- Using generalized method of moments, estimated a structural model of the economy to directly test hypotheses about whether inflation expectations respond rationally to food and energy price movements. Statistical analysis done in Stata.
- While working full time at CRA, co-authored and published a paper in the Eastern Economic Journal in October 2015.
- Presented research at American Economic Association Annual Meeting; Boston, MA; January 4, 2015.
- Publication details: "Rational Bias in Inflation Expectations," Eastern Economic Journal; advance online publication October 19, 2015; publication January 9, 2018 (with Robert Murphy). See `https://doi.org/10.1057/eej.2015.50`.

Additional Study

- C++ Programming and Numerical Analysis Course - UC Berkeley Haas School of Business - Spring 2018; Coursera Machine Learning - Fall 2017; Coursera Neural Networks and Deep Learning - Fall 2017; Coursera Improving Deep Neural Networks - Winter 2017; Coursera Structuring Machine Learning Projects - Winter 2017