Adam R. **Rohde**

Oakland, California

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Core Competencies

Research Expertise Statistics; Causal Inference; Quasi-Experiments; Experimental Design

Professional Expertise Experimentation; Product Analytics; Statistical Modelling and Computing; Econometrics; ML Ethics; Machine Learning

Programming Languages Python, R, SQL, SAS, Stata, LaTeX

Professional Experience

ZipRecruiter — *Oakland, CA*

Senior Decision Scientist — *2023 - Present*

- Advise on experimental design of A/B tests and conduct research to drive business outcomes.
- Work on improving experimental practice and expanding the use and improving the credibility of observational causal inference.

Twitter — *Los Angeles, CA*

ML Ethics Researcher — *2022*

- Investigated whether there is differential algorithmic amplification of elected officials from different political parties using tools of causal inference. Study aimed to uncover algorithmic bias favoring certain political parties over others; (perception of) bias affects trust in and bottom line for Twitter.

Charles River Associates — *Oakland, CA & Boston, MA*

Consulting Associate [Senior Data Scientist] *(2015-2019)*; Associate [Data Scientist] *(2014-2015)*; Analyst *(2012-2014)* — *2012 - 2019*

- Conducted empirical analyses of market dynamics related to mergers, acquisitions, and antitrust litigations using large datasets (e.g., claims data, prescription data, sales data) to understand competition, pricing, and client operations. Led teams of analysts and coordinated with clients, resulting in favorable settlements and successful acquisitions.
- Led a team of 3 analysts and coordinated with another consulting firm and 5 of the largest national health insurers in an antitrust litigation brought against a hospital system. Analyzed terabytes of health insurance claims data in modeling patient willingness to pay, prices, and demand.
- 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. Modeled price; analyzed market definition and dynamics.
- Coordinated team of 4 analysts related to the $1.9B successful acquisition by CVS of Target's 1,660 pharmacies. Analyses showed little danger to consumers. Programmatically analyzed local geographic markets; conducted event study related to newly opened locations.
- Worked on numerous pre-deal mergers and acquisitions, analyzing the potential competitive effects of the proposed deals. Built statistical models of prices, demand, and other key metrics like customer-to-store drive times. Also conducted various econometric studies using designs like difference-in-differences and event studies.
- Led corporate recruiting and Green Office Initiative (sustainability project) for the Boston Office of CRA. Served as "SAS Expert" by assisting colleagues with difficult tasks and problems and mentored four Analysts and Associates on programming, data analysis, presentation skills, and career development. Promoted from Analyst to Associate and from Associate to Consulting Associate on accelerated schedule.

Education

University of California, Los Angeles

PhD, Statistics — *2019 - 2023*

- Dissertation: Selection into the Sample and into Treatment: Tools for Internally Valid Causal Inference [Link]

Boston College

Bachelors of Arts, Mathematics and Economics — *2009 - 2013*

- Giffuni Prize for outstanding Honors Thesis in Economics; Honors in Economics; Undergraduate Research Fellow; Led Fed Challenge Team

Additional Work

Current and Past Research, Software, Side Projects, Etc.

sole author and with various co-authors

- Building tools that practitioners can use to solve real-world problems using credible causal inference, with applications in science, policy, business, and technology. Methods I have developed include a graphical procedure for evaluating sample selection as a threat to internal validity, a sensitivity analysis for sample selection, and a flexible and powerful partial identification framework for leveraging information about placebo outcomes and treatments to make defensible causal claims.
- Developing R package `placeboPartialID` for leveraging information about placebo outcomes and treatments to make defensible causal claims.
- Stanford CISIL Data Challenge 2022: Studied causal relationship between King County Metro Transit fare reinstatement on October 1, 2020 and ridership overall and by socio-economic group. Used an interrupted time series design and a variety of estimation strategies.
- Murphy, R., Rohde, A. Rational Bias in Inflation Expectations. Eastern Econ J 44, 153–171 (2018). [Link]
- A variety of additional projects can be found on my personal website: [Link]