Adam R. **Rohde**

Oakland, California

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Core Competencies

Professional Expertise Statistics; Causal Inference; Experimentation; Econometrics; Product Analytics; Statistical Modelling and Computing; ML

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

Professional Experience

ZipRecruiter

Oakland & Santa Monica, CA

Decision Scientist Technical Lead (2024-present); Senior Decision Scientist (2023-2024) *2023 - Present*

- Decision science partner to job seeker recommendations cross functional team: design and analyze experiments; conduct exploratory research to drive future product roadmap; investigate various patterns and phenomena on platform.
- Member of Experimentation Guild: provide technical guidance on how to estimate causal effects in non-standard settings (non-compliance, network effects, small samples, etc); build tools to improve experimentation practice in standard settings (e.g., built out full Bayesian CUPED functionality for variance reduction, demonstrated that equal allocation to treatment and conteol in multi-variant tests is suboptimal and provided tool for optimal allocation, redesigned Bayesian experimentation model to use empirical Bayes which drove a 10,000x improvement in sampling); drive experimentation vision; evangelize best practices.
- Share statistical and causal inference expertise with numerous teams around org: consult on possible approaches to solving problems both narrow and broad; provide critical reviews of work in progress; thought partnership; evangelize best practices.

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.
- Presented findings internally to large technical and non-technical audiences.

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 numerous 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. Examples include:
- 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.

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

- Developing methods 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 `PlaceboLM` 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]