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SUMMARY

- Profile** · Quantitative scientist with PhD + 8 years of experience in leveraging classical and bayesian statistics, machine learning, and software engineering to influence high-level decision-making
- Skills** · Causal Inference: doubly robust estimators, quasi-experimental methods, causal machine learning
· Machine learning: tabular/panel/text data, model selection/validation, deployment/monitoring
· Experimentation: study design, power analysis, bandit algorithms
· Cross-functional collaboration, stakeholder communication, model interpretability, technical leadership
- Toolkit** · Python, SQL, Spark, R, jupyter, \LaTeX

EXPERIENCE

- Staff Applied Scientist, Retail Trading** **Coinbase**, New York, NY 01/2025–Present
- Launched end-to-end retail trading churn models to proactively target users for Customer Experience and Customer Relationship Management strategies
 - Informed pricing strategies by identifying causal effects between short-term pricing interventions and long-term metrics using observational data and econometric methods
 - Formalized the job ladder for Applied Scientists at Coinbase, standardizing responsibilities, skills, and interview processes
- Senior Data Scientist, Planner Evaluation** **Waymo**, New York, NY 11/2022–01/2025
- Halved the family-wise error rate of experiments used to evaluate onboard software using confidence interval adjustments
 - Pioneered the use of statistical power and minimum detectable effect throughout the broader Planner Evaluation team by authoring the API and writing supporting documentation
 - Provided statistical mentorship and workshops for teams across Waymo on topics such as resampling methods, type I/II error, and quantifying uncertainty
- Senior Research Data Scientist, Quantitative Engineering** **Meta**, New York, NY 02/2021–11/2022
- Doubled user engagement of infrastructure tools by collaborating with engineering, product, design, and UX research as the scientific point of contact in a 100 person team
 - Served as the technical lead for the data team through multiple product and feature launches by providing mentorship, planning, and stakeholder management
 - Guided engineers to optimize the design of experiments intended to reduce latency in Core Infra services, yielding more principled decision-making
- Applied Scientist II, Global Intelligence** **Uber**, San Francisco, CA 01/2020–02/2021
- Estimated point and interval values of competitive intelligence metrics used in executive decision-making
 - Engineered an ensemble of machine learning models using internal and third-party data to identify rare user groups for multi-million dollar experiments; improved the legacy model by doubling precision
- Senior Data Scientist, Data and Research** **BitSight**, Boston, MA 10/2017–01/2020
- Led all data science projects for third-party cybersecurity risk management, including BitSight's inaugural machine learning-based product, multiple analytical tools, and observational studies to evaluate internal processes
 - Supervised Master's-level intern working on validation of external financial data and sales/marketing analytics

EDUCATION

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| PhD, Biostatistics | Harvard University , Cambridge, MA | 2017 |
| BMATH, Statistics and Actuarial Science | University of Waterloo , Waterloo, ON, Canada | 2012 |