Ryden Butler, PhD

Data Science Leader

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Professional Summary

Data science leader with 7+ years of experience in statistical analysis, experimentation, and building scalable data products. Adept at transforming ambiguous business problems into data-driven solutions that automate the insight-delivery process. Strong proficiency in SQL, Python, and R, with a focus on testing hypotheses via A/B tests, observational causal inference, and advanced experimental methods.

Work Experience

Evolve Vacation Rental Network   Oct 2023 – Present
Data Science Lead – Core Data Science
- Lead team of data scientists responsible for all company decision science & ML needs
- Oversee 100+ experiments annually, designing tests & reporting results to executive leaders
- Support deployment of 10+ data products with devops / MLops assistance & technical feedback
- Leveraged generative AI to reduce company text analytics costs by 90%

Evolve Vacation Rental Network   Sep 2021 – Oct 2023
Data Scientist – Causal Inference
- Built in-house experimentation platform responsible for 20% average lift in annual revenue
- Designed & analyzed 50+ A/B tests, switchbacks, multi-armed bandits & other experiments
- Developed causal inference python package, distributing statistical modeling across 25+ analysts
- Crafted dashboards & visualizations in Tableau reflecting $1B+ in company sales

Washington University in St. Louis   May 2017 – May 2021
Graduate Research Scientist
- Employed statistical models in the realms of Frequentist & Bayesian Statistics, Observational Causal Inference, Mixed Effects & Hierarchical Modeling, Longitudinal, Time Series & Survival Modeling
- Constructed SQL database of 100M+ social media posts, scraped via REST API & Selenium
- Designed & fielded 15+ survey experiments on Facebook & Amazon Mechanical Turk
- Created CRAN-ready R package for labeling data using online workforces

YouGov   Oct 2018 – Nov 2018
Junior Contractor – Election Night Support
- Collaborated with team to QA & push hotfixes to 100+ data pipelines

Education

PhD – Political Science   May 2021
Washington University in St. Louis
- Concentration: Statistical Methodology, American Politics
- Dissertation: *The Rules of Engagement: How the Public Interactions with Elected Officials on Social Media and What Can Be Learned from Their Interaction*

MA – Statistics   May 2021
Washington University in St. Louis, St. Louis, MO
- Thesis: *Measuring the Political Ideology of Social Media Posts*

BA – Economics, Political Science, History   May 2015
University of Miami, Coral Gables, FL
- Honors: Magna Cum Laude, Phi Beta Kappa, Honors in Political Science
- Thesis: The Causes of Conspiratorial Thinking

Skills

Programming & Analysis: Python (pandas, numpy, scikit–learn), R, SQL, Excel / Sheets, C++, Matlab
Development: Gitlab /Github, AWS (S3, EC2, MTurk), Docker, Prefect, Jira
Visualization: Tableau, Python (matplotlib, seaborn, ggplot2), Latex, HTML5, CSS, Sisense