Jacob Z. Eliason

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Based in Arlington, VA, USA

Summary

Data scientist with 4+ years of experience driving business impact through experimentation, causal inference, and production machine learning systems. Proven track record of partnering with cross-functional teams to build and scale data solutions, with particular expertise in business process optimization and survey research. Strong foundation in statistical methodology complemented by hands-on experience with modern cloud and analytics infrastructure.

Education

The London School of Economics and Political Science
London, United Kingdom
M.Sc. Statistics
Sep 2022 – Aug 2023
• Dissertation: *Estimating the Causal Effect of German Nuclear Plant Closures on Electricity Generation Using Gaussian Process Regression*

Brigham Young University
Provo, UT, United States
B.S. Statistics
Jan 2016 – Dec 2019
• Minors: Mathematics, Political Science

Experience

Thumbtack
Remote, USA
Senior Data Scientist
Mar 2025 – Present
• Partner with refund operations and commercial strategy teams to optimize business processes through causal inference, experiment design, and statistical support

AvalonBay Communities
Arlington, VA, USA
Senior Data Scientist
Apr 2024 – Feb 2025
• Designed and implemented upgrades to ensemble forecasting system (built using Python and AWS Lambda), reducing prospect forecast error by >50% and earning company recognition for impact
• Partnered with revenue management and marketing analytics teams, providing strategic support for causal inference, A/B testing, and survey research projects

Guidehouse
Arlington, VA, USA
Data Scientist – Senior Consultant
Aug 2023 – Apr 2024
• Deployed, and maintained the backend of a reporting tool used by several hundred employees, following Agile development practices, for a US Department of State client in Python using Azure Cloud
• Developed evaluation framework for LLM accuracy improvement using LangChain and chain-of-verification prompting

United States Census Bureau
Washington, DC, USA
Mathematical Statistician
Sep 2020 – Feb 2022
• Wrote and edited programs in SAS using SQL for production work on the Survey of Income and Program Participation; responsibilities included sampling, weighting, and variance estimation using SAS, SQL, and R

Y2 Analytics
Salt Lake City, UT, USA
Data Analyst
Jan 2020 – Aug 2020
• Implemented end-to-end survey research projects for diverse client base, translating stakeholder needs into research design and actionable recommendations; programmed questionnaires in Qualtrics, cleaned survey data, produced graphics, analyzed relationships using conjoint analysis and other statistical modeling frameworks, and wrote text for final deliverables
• Contributions to in-house R package are still used years later by 10+ analysts

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Skills

Programming & Development
Languages: Python, R, SQL, Unix Shell
MLOps: deployment, evaluation, monitoring
Cloud: Azure, GCP, AWS

Data Management & Engineering
Warehouses: Snowflake, BigQuery, Databricks
Orchestration: Dagster, Airflow

AI & Deep Learning
LLM Tooling: Embeddings, LangChain
Frameworks: TensorFlow, PyTorch

Statistical Analysis & Machine Learning
Theory: Probability, hypothesis testing, Bayesian inference
Application: A/B testing and experiment design, time series forecasts, boosting and bagging methods