

Jacob Z. Eliason

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Based in Washington, DC, USA

Summary

Data scientist with 4+ years of experience driving business impact through experimentation, causal inference, and production analytics. 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 ML infrastructure.

Education

[The London School of Economics and Political Science](#)

M.Sc. Statistics

• Dissertation: *Estimating the Causal Effect of German Nuclear Plant Closures on Electricity Generation Using Gaussian Process Regression*

London, United Kingdom

Sep 2022 – Aug 2023

[Brigham Young University](#)

B.S. Statistics

• Minors: Mathematics, Political Science

Provo, UT, United States

Jan 2016 – Dec 2019

Experience

[AvalonBay Communities](#)

Senior Data Scientist

- Partnered with revenue management and marketing analytics teams, providing strategic support for causal inference, A/B testing, and survey research projects
- Designed and implemented upgrades to ensemble forecasting system using AWS Lambda and Python, reducing prospect forecast error by >50% and earning company recognition for impact
- Implementing production analytics infrastructure following MLOps best practices for scalable model evaluation and monitoring

Arlington, VA, USA

Apr 2024 – Present

[Guidehouse](#)

Data Scientist – Senior Consultant

- 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

Arlington, VA, USA

Aug 2023 – Apr 2024

[DevTech Systems, Inc.](#)

Statistician

- Implemented statistical disclosure limitation methods for agency data assets to satisfy k-anonymity and reduce risk

Arlington, VA, USA

Feb 2022 – Aug 2022

[United States Census Bureau](#)

Mathematical Statistician

- 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

Washington, DC, USA

Sep 2020 – Feb 2022

[Y2 Analytics](#)

Data Analyst

- 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
- Modeled voter education and turnout using hierarchical Bayesian model, informing sample selection for election polls
- Contributions to in-house R package are still used years later by 10+ analysts

Salt Lake City, UT, USA

Jan 2020 – Aug 2020

Skills

Programming & Development

Languages: Python, R, SQL

MLOps: version control, testing, deployment, monitoring

Cloud: Azure, GCP, AWS

Scripting: Unix Shell

Visualization: Looker, Tableau

Data Management & Engineering

Warehouses: Snowflake, Databricks, BigQuery

Orchestration: Dagster, Airflow

AI & Deep Learning

LLM Tooling: LangChain, Vector Databases

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