

Jacob Z. Eliason

Data scientist with experience in statistical modeling, machine learning, and data visualization. Eager to solve hard problems.

Education

present
|
Sep
2022

M.Sc. Statistics

The London School of Economics and Political Science

📍 London, UK

- Modules: Statistical Inference, Generalized Linear Modelling, Bayesian Machine Learning, Distributed Computing, Deep Learning

Dec
2019
|
Jan
2016

B.S. Statistics

Brigham Young University

📍 Provo, Utah, USA

- Minors: Mathematics, Political Science

Industry Experience

Aug
2022
|
Feb
2022

Statistician

DevTech Systems, Inc.

📍 Washington, DC, USA

- Staffed on DevTech's [Analytics, Data, Visualization, and Information Services \(ADVISE\) project](#) as member of the Privacy and Risk Analysis team within [USAID Data Services](#) in USAID's Bureau of Management, Office of the Chief Information Officer.
- Applied statistical disclosure limitation methods to agency data assets to quantify and reduce risk.

Feb
2022
|
Sep
2020

Mathematical Statistician

United States Census Bureau

📍 Washington, DC, USA

- Wrote and edited programs in SAS for production work on the [Survey of Income and Program Participation](#). Responsibilities include sampling, weighting, and variance estimation.
- Reviewed Census publications which reference SIPP data for adherence to [quality standards](#).
- Produced estimates and updated text for the [Source and Accuracy statement](#) for the calendar year 2020 data release.

Aug
2020
|
Jan
2020

Data Analyst

Y2 Analytics

📍 Salt Lake City, Utah, USA

- Conducted survey research projects for [corporate and municipal government clients](#) from start to finish: programmed questionnaires in Qualtrics, cleaned raw data using R, produced graphics, analyzed relationships using statistical models, wrote text and formatted results for final deliverables.
- Presented report to company leadership on potential performance benefits of using a new Bayesian hierarchical model compared with the existing approach for estimating voter turnout in a state gubernatorial election.

Aug
2019
|
May
2019

Data Analyst Intern

Y2 Analytics

📍 Washington, DC, USA

- Wrote tools for [company R package](#) which are still used years later by 10+ analysts.

Contact

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github.com/jcblsn

jacobeliason.com

linkedin.com/in/jacobzeliason

Skills

Programming Languages

- R, Python, SQL, Bash, SAS, C++

Statistical Analysis

- Probability theory
- Hypothesis testing
- Regression analysis: ordinary linear regression, generalized linear models
- Bayesian inference: regression, networks, clustering, Markov Chain Monte Carlo (MCMC) methods, Gaussian processes

Machine Learning

- Deep Learning
 - Frameworks: TensorFlow + Keras
 - Architectures: Convolutional neural networks, recurrent neural networks, generative adversarial networks, transformers

Data Wrangling

- pandas, numpy, dplyr, tidyr, data.table

Version Control

- Git, GitHub

Database Management

- Spark, Hadoop, DuckDB, MySQL

Cloud Computing

- Google Cloud Platform

Visualization

- R Shiny, Tableau, ggplot2, matplotlib, seaborn

This document was made using the R packages [datadrivencv](#) and [pagedown](#). The source code is available on [my GitHub](#).

Last updated on 2023-03-01.

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jacobeliason.com/resume/