Jacob Z. Eliason

Data scientist with expertise in statistical modeling, neural networks, and cloud computing. 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, Dissertation
- Selected project work: Comparing Deep Learning Approaches to Image Segmentation for Monitoring Deforestation, A Bayesian Approach to Valuing Walkable Neighborhoods in Washington DC
- Dissertation: Estimating the causal effect of Germany's 2021 nuclear power plant closures on electricity generation using Gaussian process regression

Dec 2019 | Jan 2016

B.S. Statistics
Brigham Young University   📍 Provo, UT, USA

- Minors: Mathematics, Political Science

Industry Experience

Aug 2022 | Feb 2022

Statistician
DevTech Systems, Inc.   📍 Arlington, VA, 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. Produced estimates and updated text for the Source and Accuracy statement for the calendar year 2020 data release.
- Reviewed Census publications which reference SIPP data for adherence to quality standards.

Aug 2020 | Jan 2020

Data Analyst
Y2 Analytics   📍 Salt Lake City, UT, 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.

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

jacobeliason@gmail.com

github.com/jcblsn

jacobeliason.com

linkedin.com/in/jacobzeliason

Skills

Programming
- Languages
  - R, Python, SQL, Bash, SAS
- Version Control
  - Git, GitHub
- Testing
  - testthat

Statistical Analysis and Machine Learning
- Theory
  - Probability and inference, hypothesis testing, causal inference and experiment design, linear and non-linear modeling, parametric and non-parametric methods
- Application
  - Regression, classification, clustering, Bayesian methods (networks, MCMC, Gaussian processes)

Artificial Intelligence
- Deep Learning
  - Frameworks: TensorFlow, PyTorch
  - Architectures: convolutional neural network, recurrent neural network, autoencoder, seq2seq, transformer, GAN

Data Infrastructure
- Big Data
  - Spark, Hadoop
- Cloud Computing
  - Google Cloud Platform
- Database Systems
  - MySQL, DuckDB
- Cleaning
  - pandas, numpy, dplyr, tidyr, data.table
- 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 2023-05-26.

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