

# Jacob Z. Eliason

Data scientist with a Master's degree in statistics and expertise in statistical analysis, deep learning, and cloud computing. Has a background in survey research and methodology. Holds a Secret level clearance. 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 Modeling, Bayesian Machine Learning, Distributed Computing, Deep Learning, Dissertation
- 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
- Used R to apply statistical disclosure limitation methods to agency data assets to satisfy k-anonymity 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, analyzed relationships using statistical models, wrote final deliverables

Aug  
2019  
|  
May  
2019

### Data Analyst Intern

Y2 Analytics

📍 Washington, DC, USA

- Contributed R code to company codebase for function tools which are still used years later by 10+ analysts

## Contact

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[jacobeliason.com](https://jacobeliason.com)

[linkedin.com/in/jacobzeliason](https://linkedin.com/in/jacobzeliason)

## Skills

### Programming

- Languages: R, Python, SQL, SAS, Bash (Unix Shell)
- Version Control: Git, GitHub
- Testing: `testthat`

### Statistical Analysis and Machine Learning

- Theory: Probability and inference, hypothesis testing, causal inference and experiment design
- Application: Regression, classification, clustering, Bayesian methods

### Artificial Intelligence

- Deep Learning
  - Frameworks: TensorFlow
  - Architectures: convolutional neural network, recurrent neural network, autoencoder, seq2seq, transformer, GAN
  - Example work: U-Net for image segmentation [here](#) and [here](#)

### Data Infrastructure

- Big Data: PySpark, HDFS
- Cloud Computing: Google Cloud Platform
- Database Systems: DuckDB
- Cleaning: `pandas`, `numpy`, `dplyr`, `tidyr`, `data.table`
- Visualization: R Shiny, Tableau, `ggplot2`, `matplotlib`

### Survey Research

- Methodology: sampling, weighting, variance estimation, conjoint analysis
- Questionnaires: Qualtrics

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

Last updated on 2023-06-14.

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