

# JACOB Z. ELIASON

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US Govt Clearance Level: Secret

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## SUMMARY

I am a data scientist with experience in statistics, deep learning, and geospatial analysis. I recently graduated from the London School of Economics with a Master's in statistics, where I pursued additional training with modern data science tools to complement my background in traditional statistics. I am proficient in Python and R, having built scalable applications that process large datasets for statistical and geospatial analyses in both local and cloud-based environments. I have 3 years of full-time experience as a statistician and data analyst at the US Census Bureau and in the private sector.

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## EDUCATION

### The London School of Economics and Political Science

[M.Sc. Statistics](#)

London, United Kingdom

Sep 2022 – Aug 2023

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

### Brigham Young University

[B.S. Statistics](#)

Provo, Utah, United States

Jan 2016 – Dec 2019

- Minors: Mathematics, Political Science

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## EXPERIENCE

### [Guidehouse](#)

Data Scientist – Senior Consultant, Advanced Analytics & Intelligent Automation (AAIA)

Tysons Corner, VA, USA

Aug 2023 – Present

- Support federal clients through expert programming and data analysis, applying modern software tools to derive actionable insights and inform evidence-based decision-making throughout the public sector

### [DevTech Systems, Inc.](#)

Statistician

Arlington, VA, USA

Feb 2022 – Aug 2022

- Used R and `sdcMicro` to apply statistical disclosure limitation methods to agency data assets to satisfy  $k$ -anonymity and reduce risk
- Performed ad-hoc analytics and visualizations using R in support of policy decisions
- 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

### [United States Census Bureau](#)

Mathematical Statistician

Suitland, MD, USA

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
- 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](#)

### [Y2 Analytics](#)

Data Analyst

Salt Lake City, UT, USA

Jan 2020 – Aug 2020

- Contributed to elections modeling effort by modeling education and turnout using original hierarchical Bayesian models using R
- Conducted survey research projects for [corporate and municipal government clients](#) from start to finish: programmed questionnaires in Qualtrics, cleaned survey data using R and `y2clerk`, produced graphics using `ggplot2`, analyzed relationships using conjoint analysis and other statistical modeling tools, and wrote text for final deliverables

Data Analyst Intern

Washington, DC, USA

May 2019 – Aug 2019

- Wrote new functions and corresponding unit tests for in-house R package which are still used years later by 10+ analysts

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## SKILLS

- Programming & Scripting
  - Languages: Python, R, SQL, SAS
  - Version Control: Git, GitHub
  - Testing: `testthat`
  - Cloud Computing: Google Cloud Platform (Dataproc, Compute Engine, Cloud Storage)
- Data Management & Engineering
  - Big Data: Hadoop HDFS, PySpark
  - Pipeline Orchestration: Dagster, Airflow
  - Cleaning: `pandas`, `numpy`, `dplyr`, `tidyr`
  - Visualization: Tableau, R Shiny, `ggplot2`
- Statistical Analysis
  - Theory: Probability and inference, hypothesis testing,
  - Bayesian methods, linear and non-linear modeling
  - Application: generalized linear models, time series forecasting, causal inference
- Artificial Intelligence & Machine Learning
  - Deep Learning
    - Frameworks: TensorFlow
    - Architectures: CNN, RNN, LSTM, Transformer
  - Machine Learning
    - Algorithms: Random forests, XGBoost, K-means
    - Evaluation: cross-validation, ROC, AUC
- Survey Research
  - Methodology: sampling, weighting, & variance estimation
  - Questionnaires: Qualtrics