

Jacob Z. Eliason

Data scientist with academic and professional experience in statistics and survey research.

Education

present
|
Sep
2022

M.Sc. Statistics

The London School of Economics and Political Science

📍 London, UK

Dec
2019

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 proven statistical disclosure limitation methods to reduce digital information and data 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](#). Worked on every phase of the survey lifecycle; programmed survey questionnaires in Qualtrics, cleaned raw data in R using tidyverse functions, produced ggplot2 graphics for relevant results, analyzed relationships using various modeling techniques, wrote text and formatted results for PowerPoint deliverables.
- Produced report for company leadership on potential performance benefits of using a new Bayesian hierarchical model compared with an existing least squares multiple regression model in estimating voter turnout for the 2020 Utah state gubernatorial election.

Aug
2019
|
May
2019

Data Analyst Intern

Y2 Analytics

📍 Washington, DC, USA

- Contributed new tools to [company R package](#) which are still used two years later by 10+ analysts weekly to daily.

Contact

✉ jacobeliason [at] gmail [dot] com

🌐 github.com/jcblsn

🌐 jacobeliason.com

in linkedin.com/in/jacobzeliason/

Skills

• **Programming:** R, Python, Bash, SAS, C++

• **Database:** SQL

• **Cloud computing:** Google Cloud Platform, Spark, Hadoop

• **Machine learning:** Deep learning

• **Visualization:** R Shiny, Tableau

• **Domains:** Bayesian statistics, survey research

Relevant Graduate-Level Coursework

• Statistical Inference

• Generalized Linear Modelling

• Distributed Computing for Big Data

• Bayesian Machine Learning

• Deep Learning

Made using the R packages [datadrivencv](#) and [pagedown](#).

The source code is available on [my Github](#).

Last updated on 2023-01-31.

View this CV online with links at [jacobeliason.com/cv/](#)

Research Experience

Dec
2019
|
Jan
2018

Undergraduate Research Assistant

BYU Department of Statistics

📍 Provo, Utah, USA

- Worked one-on-one with statistics professor on research projects in sports analytics.
- Validated performance of beach volleyball game simulator using R.

Aug
2017
|
Jan
2017

Undergraduate Research Assistant

BYU Department of Political Science

📍 Provo, Utah, USA

- Scraped data from government websites for use in a [USAID-funded research project](#) on how to improve communication of international development research to policymakers.

Aug
2017
|
Jul
2017

Project Enumerator

BYU Department of Political Science

📍 Delhi, India

- Helped conduct field arm of USAID-funded research project by presenting web resource to government officials in Delhi, India in one-on-one meetings.

Teaching Experience

Apr
2018
|
Aug
2016

Undergraduate Teaching Assistant

BYU Department of Statistics

📍 Provo, Utah, USA

- [STAT 330](#) - Introduction to Regression: Held regular office hours, graded assignments.
- [STAT 121](#) - Introduction to Statistics: Held weekly review sessions in assigned labs of 20 students each, provided one-on-one assistance in open lab hours, graded assignments.

Publications, Posters, and Talks

Jul
2019

Determining Optimal Skills for Beach Volleyball Partners

Joint Statistics Meetings 2019

📍 Denver, Colorado, USA

- [Poster presentation](#) on identifying optimal player type pairings using a Markov chain framework.

Mar
2019

Determining Optimal Skills for Beach Volleyball Partners

BYU CPMS Student Research Conference

📍 Provo, Utah, USA

Recognition

Jan
2019

Member

Mu Sigma Rho National Statistical Honor Society, BYU Chapter

📍 Provo, Utah, USA

- Membership limited to students in the top third of their class in all statistics coursework.

Apr
2016

Dean's List

BYU College of Physical and Mathematical Sciences

📍 Provo, Utah, USA

- Recognized on the [dean's list](#) for Winter 2016 semester, awarded to students with grades in the top 5% of the college for the semester.