Jacob Z. Eliason

Data scientist with academic and professional experience in statistics and survey research. Expert R programmer. Interested in using data to solve human problems.

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/

Programming Languages

Advanced
R (6 years of academic and professional experience)

Intermediate
SAS, SQL, Unix

Beginning
C++, Python

Relevant Graduate 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 2022-12-13.

View this CV online with links at jacobeliason.com/cv/

Research Experience

Undergraduate Research Assistant
BYU Department of Statistics
Dec 2019 | Jan 2018

📍 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.

Undergraduate Research Assistant
BYU Department of Political Science
Aug 2017 | Jan 2017

📍 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.

Project Enumerator
BYU Department of Political Science
Aug 2017 | Jul 2017

📍 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

Undergraduate Teaching Assistant
BYU Department of Statistics
Apr 2018 | Aug 2016

📍 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

Determining Optimal Skills for Beach Volleyball Partners
Joint Statistics Meetings 2019
Jul 2019

📍 Denver, Colorado, USA

• Poster presentation on identifying optimal player type pairings using a Markov chain framework.

Determining Optimal Skills for Beach Volleyball Partners
BYU CPMS Student Research Conference
Mar 2019

📍 Provo, Utah, USA

Recognition

Member
Mu Sigma Rho National Statistical Honor Society, BYU Chapter
Jan 2019

📍 Provo, Utah, USA

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

Dean's List
BYU College of Physical and Mathematical Sciences
Apr 2016

📍 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.