

# Jacob Z. Eliason

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

## Education

Dec  
2019

### B.S. Statistics (Emphasis in Statistical Science)

Brigham Young University

Provo, Utah, USA

- Minors: Mathematics, Political Science
- GPA 3.6/4.0

## Industry Experience

present  
|  
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
- Apply proven statistical disclosure limitation methods to reduce digital information and data risk
- Document, in digital and preferably machine-readable formats, all manipulations and transformations made to datasets to produce post-transformation datasets
- Track and keep an up-to-date list of key datasets that pertain to the countries, sectors, and populations with which USAID works

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/eliason-j

🌐 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

## Selected Undergraduate Coursework

### 37.5 credit hours in statistics

discrete & continuous probability and inference, statistical programming (R, SAS, Unix), analysis of variance, introduction & applied Bayesian statistics, introduction to regression, nonparametric methods, analysis of correlated data

### 17 credit hours in mathematics

calculus (differential, integral, vector/multivariable), linear algebra, fundamentals of mathematics

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

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

Last updated on 2022-03-14.

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.