

# Joel Bray

Tempe, AZ

pronouns: they/them/their

---

360-704-0752   [bray.joel@gmail.com](mailto:bray.joel@gmail.com)   [joelbray.github.io](https://joelbray.github.io)   [github.com/joelbray](https://github.com/joelbray)   [linkedin.com/in/joel-bray](https://linkedin.com/in/joel-bray)

---

## Professional Summary

- Curious, people-oriented, and data-driven leader with political and scientific experience in data management, data visualization, data analytics, and statistics using R and SQL
- Adept project manager and cross-functional communicator, having worked collaboratively to evaluate and advise state voter contact programs, publish 9 research projects, and explain complex and technical subjects to political organizers, K-12 and university students, and incarcerated people
- Dedicated organizer with political and labor experience (Obama '08; Bernie '20; Arizona '20 General Election; Georgia '21 Senate Runoff; Emergency Workplace Organizing Committee)

## Work Experience

### Arizona Data Director, *Mi Familia Vota*

Phoenix, AZ, Aug 2020 – Present

- Strong cross-functional collaborator, as demonstrated by coordination with senior staff and state table partners to advise a voter contact program that registered 14.9K and contacted over 75K unique voters
- Creative data analyst with experience building pipelines between Civiis, Google BigQuery, Sisense/Periscope, Google Sheets, and Google Data Studio to examine voter contact and census data and create dashboards to track and highlight program metrics
- Accomplished researcher, as evidenced by the design and analysis of 2 randomized controlled trials examining the effectiveness of a voter guide and bilingual mailer on turnout among 200K people
- Methodical data manager with experience overseeing VAN, EveryAction, ThruTalk, and ThruText; also trained 22 field and community organizing staff to observe data protocols and best practices

### Data Science Expertise

Tempe, AZ, Aug 2014 – Mar 2021

*as an NSF Graduate Research Fellow, Arizona State University*

- Detail-oriented data analyst with experience in R and SQL, which were used to clean and analyze 86 years of longitudinal data on wild chimpanzees across 2 study populations and 6 research projects
- Adaptable researcher with project management skills (e.g. leadership, budgeting, task & time management), resulting in 9 scientific publications with 25+ collaborators
- Strong written communication skills with experience following technical requirements as demonstrated by acquiring \$153,000 in competitive national research grants and fellowships

### Lab Manager, *Duke University*

Durham, NC, Aug 2013 – July 2014

- Innovative problem-solver with expertise in observational and experimental research methods, resulting in 2 publications on primate sleep using accelerometers and infrared videography
- Designed and constructed a MySQL relational database that met National Science Foundation grant milestones; also supervised 8 research assistants on data collection and management protocols

## Volunteer Experience

### **Data Team Lead, *Emergency Workplace Organizing Committee***

Remote, May 2020 – Present

- Strong management and communication skills, which I have used to lead a transition from Google Sheets to Airtable in coordination with staff, labor organizers, and other data team members
- Implemented advanced data workflows in Google Sheets to track workers and workplace campaigns

### **Biology Teacher, *Prison Biology Education Program***

Tempe, AZ, Aug 2015 – Apr 2020

- In collaboration with a team of volunteers from Arizona State University, I developed curriculum for and taught year-long introductory biology courses to incarcerated people
- Supervised a program that mentored 20 students in conducting research on a topic of their choice

### **Bernie Victory Captain, *Bernie Sanders for President***

Tempe, AZ, Feb – Apr 2020

### **Campaign Intern, *Obama for America***

Olympia, WA, June – Nov 2008

- Independent self-starter with experience hosting 13 door-to-door canvasses and phone banks as part of a distributed field organizing team
- Motivated organizer with strong technical literacy and verbal communications skills, which were honed while recruiting and training 75+ volunteers using Mobilize, MiniVAN, and ThruTalk
- Excellent teamwork and interpersonal skills developed while mentoring 3 interns and training 300+ volunteers to canvass and phone bank in both 1:1 and large group settings

## Technical Skills, Tools, and Languages

- |   |                            |                   |
|---|----------------------------|-------------------|
| • R (tidyverse, ggplot2, lme4, rethinking, censusapi, choroplethr, Markdown)  | • NGP VAN & EveryAction    | • Google BigQuery |
| • SQL   | • Google Suite (Sheets)    | • Civis Platform  |
| • Statistics (predictive models; linear, logistic, and ordinal regression; multilevel models; frequentist & Bayesian inference) | • Microsoft Office (Excel) | • GitHub          |
|   | • Sisense/Periscope        | • Airtable        |
|   | • Google Data Studio       | • QGIS            |

## Training

### **Arena Academy, Data Track**

2021

- A five-day intensive program focused on progressive campaign strategy, data, and targeting

### **Generation Data**

- A two-week progressive data program focused on data tools and racial equity

2020

## Education

### **Ph.D. in Anthropology, Arizona State University**

2021

### **B.S. in Evolutionary Anthropology, Duke University**

2013