

# Joel Bray

Tempe, AZ

pronouns: they/them/their

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## Professional Summary

- Curious 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 scientific subjects to K-12 students, undergraduates, and incarcerated people in an Arizona prison
- 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 evaluate and advise a multimodal voter contact program that helped register 14.9K people and contacted over 75K potential voters
- Accomplished data scientist, as evidenced by the design and analysis of two randomized controlled trials examining the effectiveness of a voter guide and bilingual mailer on turnout among 200K people, predominantly people of color and young voters
- Creative data analyst and visualizer with experience using Civis, Google BigQuery, Google Data Studio, Tableau, QGIS, and Census Bureau data to examine voting and demographic data and build dashboards to track and highlight program metrics
- Methodical data manager with experience overseeing SmartVAN, America Votes VAN, EveryAction, Phone2Action, ThruTalk, and ThruText, and training 21 canvassing leads and community organizing staff to observe data protocols and best practices

### Data Science Expertise

Tempe, AZ, Aug 2014 – Present

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

- Detail-oriented data analyst with experience in R and SQL, which were used to clean, wrangle, and analyze 86 combined 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, time management), resulting in 9 scientific publications with 25+ collaborators
- Strong written communication skills with experience following technical requirements as demonstrated by acquiring \$153,000.00 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
- Effective data manager, as evidenced by the design and construction of a MySQL relational database with 4 tables and 3,000+ rows that met National Science Foundation grant milestones; also supervised and trained 8 research assistants on data collection and management protocols

## Volunteer Experience

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

Remote, May 2020 – Present

- Coordinating a database transition from Google Sheets to Airtable along with staff and organizers
- Implemented new data systems to track workers and workplace campaigns in Google Sheets

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

Tempe, AZ, Feb – April 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

## Skills

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

## Education

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

exp. 2021

**Progressive Data Training, Generation Data – Online**

2020

- A two-week progressive data program focusing on VAN, SQL, Excel, Tableau, racial equity in data, cybersecurity, and QGIS

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

2013