

# Joel Bray

pronouns: they/them

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Tempe, AZ

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## Professional Summary

- Curious and meticulous data scientist with extensive experience in hypothesis testing, research design, data visualization, data analytics, and statistical analysis in SQL and R
- Effective project manager and communicator, having collaboratively produced 8 scientific publications and explained technical subjects to K-12 students, undergraduates, and incarcerated people in an Arizona prison
- Dedicated organizer with campaign experience (Obama '08; Bernie '20) and knowledge of political tools, including VAN/VoteBuilder, Mobilize, OpenVPB, MiniVAN, and ThruTalk

## Work Experience

### Data Science Expertise

Tempe, AZ, Aug 2014 – Present

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

- Detail-oriented data analyst with advanced skills in SQL and R, which were used to clean, wrangle, and analyze 60 years of longitudinal data on wild chimpanzees across 4 research projects
- Adaptable researcher with strong project management skills (e.g. budgeting, time management), resulting in 8 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

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

Tempe, AZ, Feb – April 2020

- Motivated self-starter with experience organizing 11 door-to-door canvasses and 2 phone banks to do Voter ID and GOTV as part of a distributed field organizing team
- Strong verbal communications skills with field experience recruiting and training 75+ volunteers using VAN/VoteBuilder, Mobilize, OpenVPB, MiniVAN, and ThruTalk

### Lab Manager, Duke University

Durham, NC, Aug 2013 – July 2014

- Effective data management skills applied to the design and construction of a MySQL relational database with 4 tables and 3,000+ rows that met National Science Foundation grant milestones
- Creative problem-solver with expertise in observational and experimental research methods, resulting in 2 publications on primate sleep using non-invasive accelerometers and infrared videography
- Organized a multi-day academic workshop for 30 participants, including graduate students and professors

### Campaign Intern, Volunteer, Obama for America

Olympia, WA, June – Nov 2008

- Strong technical literacy and communication skills used to mentor 3 interns and train 300+ volunteers to canvass and phone bank in 1:1 and large group settings
- Quick learner with campaign experience developed while canvassing 500+ doors, calling 1000s of voters, and registering 100+ people to vote

## Education

Ph.D in Anthropology, Arizona State University

2020 (expected)

B.S. in Evolutionary Anthropology, Duke University

2013

## Technical Skills

- SQL
- R (tidyverse, ggplot2, lme4, rethinking, Markdown)
- Python (pandas, matplotlib, seaborn, scikit-learn)
- Statistics (predictive modeling, linear and logistic regression, multilevel models, frequentist & Bayesian inference)
- Microsoft Office (Excel)
- Google Suite (Sheets)
- Google Data Studio
- Tableau
- GitHub
- Spanish (intermediate)

## Affiliations & Hobbies

Ragtag • Progressive Coders Network • Grassroots/political organizing • Prison education • Photography • Hiking