

# BRENDON JEROME BUTLER

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## EXPERIENCE

### Insight Data Science

Los Angeles, CA

*Data Science Fellow*

*September 2019 – Present*

- Built NBA-GameFinder, a web app that helps NBA fans pick the best game to attend based on their preferences
- Retrieved the past five years of NBA statistics using Python and stored the data in a PostgreSQL database
- Engineered dozens features to uncover the best predictors of team success
- Predicted 2019-20 NBA season results using logistic & linear regression
- Designed and deployed an interactive web app using Flask, Bootstrap, and AWS

### National Science Foundation

Irvine, CA

*Graduate Research Fellow*

*September 2016 – Present*

- Designed and conducted online and in-person experiments investigating how humans retrieve information from memory
- Built hierarchical linear and logistic regression models in R and Python to predict how accurately humans retrieve information from memory under different task demands with less than 5% margin of error
- Published findings in peer-reviewed academic journals and presented findings at conferences
- Secured over \$100,000 in research funding via grants and external fellowships

### Irvine Company

Irvine, CA

*Data Scientist, Intern*

*June 2019 – July 2019*

- Developed time series models to forecast tenant churn using SARIMA and Prophet
- Updated production code in Alteryx to improve forecasts

### University of California, Irvine

Irvine, CA

*Graduate Teaching Assistant*

*September 2014 – August 2016*

- Taught course curriculum in one- to three-hour classroom sessions
- Evaluated more than 500 student essays, projects, labs, tests, and other assessments

## TECHNICAL SKILLS

**Programming:** Python, R, SQL

**Machine learning techniques:** Hierarchical linear and logistic regression, classification, clustering, feature engineering, dimensionality reduction

**Tools and packages:** Pandas, Numpy, SciPy, scikit-learn, Flask, Bootstrap, AWS

**Data visualization:** Tableau, matplotlib, Seaborn, ggplot2

**Research skills:** Experimental design, hypothesis testing, A/B testing

**Other software/statistical packages:** STATA, SPSS, Alteryx, L<sup>A</sup>T<sub>E</sub>X

## EDUCATION

### University of California, Irvine

Irvine, CA

*PhD, Psychological Science*

*2020 (expected)*

- **Minor:** Quantitative Methods

### University of California, Irvine

Irvine, CA

*MA, Social Ecology*

*May 2017*

### University of California, Riverside

Riverside, CA

*BA, Psychology*

*June 2012*