

# BRENDON JEROME BUTLER

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## EXPERIENCE

### Ericsson

*Network Engineer Intern, Machine Learning*

**Irvine, CA**

*March 2020 – Present*

### National Science Foundation

*Graduate Research Fellow*

**Irvine, CA**

*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, Python, and SAS 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

### Insight Data Science

*Data Science Fellow*

**Los Angeles, CA**

*September 2019 – December 2019*

- 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, Unicorn, Bootstrap, and AWS

### Irvine Company

*Data Scientist & Engineer I, Intern*

**Irvine, CA**

*June 2019 – July 2019*

- Developed time series models (SARIMA, SARIMAX, Prophet) to forecast tenant churn using R and Python
- Updated production code in Alteryx to improve forecasts
- Made dashboards in Tableau to visualize forecasts

## 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:** SAS, STATA, SPSS, Alteryx, Qualtrics, ArcGIS, L<sup>A</sup>T<sub>E</sub>X

## EDUCATION

### University of California, Irvine

*PhD, Psychological Science*

**Irvine, CA**

*2020 (expected)*

- **Minor:** Quantitative Methods

### University of California, Irvine

*MA, Social Ecology*

**Irvine, CA**

*May 2017*

### University of California, Riverside

*BA, Psychology*

**Riverside, CA**

*June 2012*