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 & Engineer I, Intern *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

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, LaTeX

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*