

# Brendon Jerome Butler

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## EXPERIENCE

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### Graduate Research Fellow

2014 – Present

University of California, Irvine

Irvine, CA

- Designed and conducted 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 < 5% margin of error
- Published findings in peer-reviewed academic journals and presented findings at conferences

### Teaching Assistant

2015 – 2017

University of California, Irvine

Irvine, CA

- Taught course curriculum in one- to three-hour classroom sessions
- Led class discussions and answered student questions
- Evaluated 500+ student essays, projects, labs, tests, and other assessments
- Maintained records on progress and grades for 300+ students

## EDUCATION

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### PhD, Psychological Science

Expected Winter 2019

University of California, Irvine

Irvine, CA

- **Specialization:** Quantitative Methods
- **Dissertation:** Retrieval-Enhanced Suggestibility: A Theoretical and Meta-Analytic Review
- Awarded National Science Foundation Graduate Research Fellowship (NSF-GRFP; \$138,000 in total funding)
- **Relevant Coursework:** Linear & Logistic Regression; Multilevel Modeling; Econometrics; Structural Equation Modeling; Bayesian Cognitive Modeling; Machine Learning; Longitudinal Data Analysis; Data Science

### MA, Social Ecology

2017

University of California, Irvine

Irvine, CA

- **Thesis:** Failure to detect discrepancies drives retrieval-enhanced suggestibility

### BA, Psychology

2012

University of California, Riverside

Riverside, CA

## PROJECTS & PUBLICATIONS

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- **Discrepancy detection in the retrieval-enhanced suggestibility paradigm:** *Publication*
  - Designed and conducted laboratory experiments to assess memory retrieval
  - Built linear and logistic hierarchical regression models in R and Python to assess and predict memory performance
- **Predicting car prices:** *Project*
  - Used scikit-learn's k-nearest neighbor algorithm and cross-validation tools to predict a car's sale price based on its features

## SKILLS

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- **Languages:** Python, R, SQL
- **Modeling:** Linear and logistic regression, Bayesian analysis, machine learning, support vector machines, decision trees
- **Visualization:** Tableau, matplotlib, Seaborn, ggplot2
- **Tools:** Git, APIs, Web Scraping, Spark
- **Research:** Experimental Design, Hypothesis testing, A/B Testing
- **Other Software & Technologies:** STATA, SPSS, Microsoft Office, Latex, Google Cloud Platform