# Brendon Jerome Butler

brendonjeromebutler@gmail.com | https://brendonjeromebutler.com

## EXPERIENCE

**Graduate Research Fellow** **Sep. 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 less than 5% margin of error
- Published findings in peer-reviewed academic journals and presented findings at conferences

**Graduate 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 more than 500 student essays, projects, labs, tests, and other assessments
- Maintained records on progress and grades for over 300 students

## EDUCATION

**PhD, Psychological Science** **Dec. 2019 (expected)**
*University of California, Irvine* *Irvine, CA*

- **Minor:** Quantitative Methods
- **Dissertation:** Retrieval-Enhanced Suggestibility: A Theoretical and Meta-Analytic Review
- **Honors:** National Science Foundation Graduate Research Fellowship (NSF-GRFP); Honorable Mention, Ford Foundation Predoctoral and Dissertation Fellowships
- **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*

## TECHNICAL SKILLS

*Languages:* Python, R, SQL
*Machine learning:* Supervised and Unsupervised models (binary and multi-class classification, clustering, decision trees, random forest)
*Statistical modeling:* Linear regression, logistic regression, Bayesian analysis, survival analysis
*Data cleaning & visualization:* Pandas, dplyr, Tableau, matplotlib, Seaborn, ggplot2
*Research:* Experimental Design, Hypothesis Testing, A/B Testing
*Other Software & Technologies:* STATA, SPSS, Microsoft Office, Latex, Google Cloud Platform, LaTeX

## PROJECTS & PUBLICATIONS

**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