Brendon Jerome Butler

Data Scientist
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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 & Awards:** 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

- **Programming Languages:** Python, R, SQL
- **Statistical Modeling:** Linear regression, logistic regression, Bayesian analysis, survival analysis
- **Machine Learning:** Binary and multi-class classification, clustering, decision trees, random forest
- **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, LaTeX

Projects & Publications

- **Discrepancy detection in the retrieval-enhanced suggestibility paradigm**
  - 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**
  - Used scikit-learn's k-nearest neighbor algorithm and cross-validation tools to predict a car's sale price based on its features