Brendon Jerome Butler

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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

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 Expected Winter 2019

University of California, Irvine *Irvine, CA*

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

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

Skills

- **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, LaTeX