Brendon Jerome Butler

Data Scientist

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Experience

- **Graduate Research Fellow** 2014 – Present
  University of California, Irvine *Irvine, CA*
  - Awarded National Science Foundation Graduate Research Fellowship (NSF-GRFP; $138,000 in total funding)
  - Designed and conducted experiments investigating how humans retrieve information from memory
  - Built multilevel linear and logistic regression models in R and Python to predict how accurately humans retrieve information from memory under different task demands
  - 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

- **PhD, Psychological Science** Expected Winter 2019
  University of California, Irvine *Irvine, CA*
  - Minor in Quantitative Methods
  - Dissertation: Retrieval-enhanced suggestibility: A theoretical and meta-analytic review
  - 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 & logistic hierarchical regression models in R and Python to assess & predict memory performance
  - Visualized results using ggplot2 and matplotlib
  - First-author, peer-reviewed publication in *Memory*, 2018. DOI: 10.1080/09658211.2017.1371193
- **Predicting car prices**
  Personal 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 & Knowledge

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