Brendon Jerome Butler

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

Experience

Irvine Company — Irvine, CA

Associate Data Scientist & Engineer I — *June 2019 – Present*

- Designing and deploying machine learning algorithms for predictive analytics in R and Python
- Developing REST APIs for enterprise applications using Flask and Python

University of California, Irvine — Irvine, CA

Graduate Research Fellow — *Sep. 2014 – May 2019*

- Designed and conducted laboratory 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
- Secured over $100,000 in research funding via grants and external fellowships

University of California, Irvine — Irvine, CA

Graduate Teaching Assistant — *Sep. 2015 – May 2017*

- 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

University of California, Irvine — Irvine, CA

PhD, Psychological Science — *Spring 2020 (expected)*

- **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

University of California, Irvine — Irvine, CA

MA, Social Ecology — *May 2017*

- **Thesis:** Failure to Detect Discrepancies Drives Retrieval-Enhanced Suggestibility

University of California, Riverside — Riverside, CA

BA, Psychology — *June 2012*

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, Alteryx 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