BRENDON JEROME BUTLER

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EXPERIENCE

Associate Data Scientist & Engineer
Irvine Company

June 2019 – Present
Irvine, CA

Graduate Research Fellow
University of California, Irvine

Sep. 2014 – May 2019
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
- Secured over $100,000 in research funding via grants and external fellowships

Graduate Teaching Assistant
University of California, Irvine

Sep. 2015 – May 2017
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
University of California, Irvine

Dec. 2019 (expected)
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
University of California, Irvine

May 2017
Irvine, CA

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

BA, Psychology
University of California, Riverside

June 2012
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, Google Cloud Platform (Big Query), 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