





# WALTER REILLY

LEARNING SCIENTIST

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 SACRAMENTO, CA

 <https://github.com/wbreilly>

## PERSONAL SKILLS

- Experimental Design
- Problem Solving
- Communication
- Listening
- Collaboration
- Project Management
- Literature Review

## TECHNICAL SKILLS

- Python and R – proficient
- Data cleaning, Engineering, and Visualization
- Regression, Mixed effects, and Bayesian statistics
- Natural language processing

## EDUCATION

### PHD, COGNITIVE PSYCHOLOGY

University of California, Davis  
2016-2022

### BA, PHILOSOPHY- NEUROSCIENCE-PSYCHOLOGY

Washinton University in St. Louis  
2012-2014

## AWARDS

- Diverse Mentoring Award
- National Science Foundation GRFP
- Eliot Scholarship

## PROFILE

- Learning scientist with a background in experimental psychology and cognitive neuroscience and with the overarching goal of improving educational efficacy and equity with evidence-based practices
- Integrated disparate literature to advance theory and identify opportunities for learning enhancement, iterated experimental paradigms, and cultivated data into coherent insights with advanced visualizations and statistics
- Collaborated with a diverse and international team of researchers, mentored junior researchers, and developed a lecture on learning enhancement for teaching assistantships

## EXPERIENCE

### PHD CANDIDATE

University of California, Davis  
2016 - Present

- Created a technique that enhances long term retention of foreign language vocabulary in less than one second
- Discovered that retrieval practice for science text content has divergent effects on retention as a function of reading ability
- Recognized an opportunity to improve neuroimaging data quality using a multimodal brain map and completed complex data pipeline, culminating in a collaborative discovery of new brain networks important for memory
- Developed a behavioral paradigm to measure schematic memories, collected and analyzed neuroimaging data, and presented findings at the largest conference in the field

### TEACHING ASSISTANT

Human Memory (3x); Cognitive Psychology (1x)

- Prepared and taught discussion sections, created quiz and exam questions, explained concepts at multiple levels

### LAB MANAGER

Washington University in St. Louis–Memory and Complex Learning Laboratory  
2014 - 2016