

Profile

Doctorate in psychology (memory research). Experienced in data analysis, literature reviews and experimental design for in-person and online experiments. Proficient in programming and statistical analysis. Helped develop a novel nonparametric analysis and created simulated datasets to test the analysis. Taught undergraduates courses and trained students in programming, statistical analysis and running subjects.

Education

PhD in Psychology

University of Illinois at Urbana-Champaign
Aug 2019

Masters in Psychology

University of Illinois at Urbana-Champaign
Dec 2017

Bachelor of Arts in Psychology

Carnegie Mellon University
May 2011

- Graduated with Honors

Professional Experience

Postdoctoral Researcher

Carnegie Mellon University
Jan 2020 – present | Pittsburgh, PA

- Implemented a four-week longitudinal in-person study on language learning
- Managed a timely transition to remote work due to COVID-19 by rebuilding the experiment into an online study (JavaScript). Expanded recruitment procedures
- Developed and ran additional experiments, including an 8-week follow-up to the language study, a study of learning during visual search, and an attentional blink study
- Managed IRB paperwork for the lab
- Trained undergraduate research assistants in running subjects and the basics of preliminary analyses in R
- Conducted analyses on the longitudinal and visual search experiment data in R
- Reviewed academic papers for journals, gave and received constructive feedback on peers' work

Michael Griffin

Postdoctoral Researcher

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Skills

R

Matlab

Javascript

SPSS

Python

SAS

Doctoral Researcher

University of Illinois

Aug 2012 – Aug 2019 | Champaign, IL

- Designed, programmed and ran experiments for over 1,000 participants, both in lab using Matlab, and online using Actionscript3 and JavaScript to study working memory, the testing effect, and other topics
- Analyzed experiments using conventional statistics, Bayesian analysis, and nonparametric techniques such as bootstrapping
- Developed a novel nonparametric test for main effects/interactions, and created 100MB+ simulated data sets to test its reliability
- Presented findings at professional meetings
- Strengthened statistical analysis skills through advanced coursework

Instructor, Introduction to Psychology

University of Illinois

Aug 2015 – May 2019 | Champaign, IL

For five semesters, taught introductory psychology to undergraduates

- Prepared and gave lectures for two sections of undergraduates
- Led discussions for team exercise days when students worked in small groups to solve more complex, applied problems
- Developed exam questions and topics for writing assignments. Graded writing, quizzes, and exams

Teaching Assistant, Introduction to Research Programming

University of Illinois

Aug 2016 – Dec 2016 | Champaign, IL

- Prepared short lectures and practice problems on the basics of loops, conditional logic, reading/writing files, and displaying images to the screen. Graded homework assignments.
- Worked with students on writing and debugging their programs in Matlab

Research Associate

Carnegie Mellon University

Jul 2011 – Jul 2012 | Pittsburgh, PA

- Created ERP and behavioral experiments with E-prime; generated input files for each using Matlab
- Co-wrote and revised research papers for Professor Lynne Reder and others on ERP and behavioral studies
- Prepared ERP data for analysis (removed eye blink artifacts and applied high/low pass filters), and analyzed ERP and behavioral data in Matlab and SPSS

Selected Publications

Benjamin, A.S., Griffin, M., & Douglas, J.A. (2019). A nonparametric technique for analysis of state-trace functions. *Journal of Mathematical Psychology*, 90, 88-99.

Griffin, M., & Benjamin, A.S. (2019). A matter of priorities: high working memory enables (slightly) superior value-directed remembering. *Journal of Memory and Language*, 108.

Griffin, M., & Benjamin, A.S. (under review). The relationship between working memory capacity and long-term recall: evidence from overt rehearsal during learning and output order during recall.