

Fred Callaway

fredcallaway@berkeley.edu

http://fredcallaway.com

EDUCATION

University of California Berkeley (2016 –)

- ▶ PhD candidate

Cornell University (2012 – 2016)

- ▶ Majors in Psychology and Linguistics, Minors in Computer Science and Cognitive Science
- ▶ 4.07 GPA, 4.13 Major GPA

RESEARCH EXPERIENCE

Professor Shimon Edelman (January 2015 – May 2016)

Cornell University

- ▶ Honors thesis: Graphs in space: A domain-general and level-spanning tool for representing structure. ([github](#)), an implementation of a graph with a Vector Symbolic Architecture.
- ▶ Created [a tool for fMRI metanalysis](#) using image processing algorithms and [Neurosynth](#).

Professor Morten Christiansen (January 2015 – May 2016)

Cornell University: Cognitive Neuroscience Lab

- ▶ Created [Simple Recurrent Network models](#) of word segmentation in Danish and English.
- ▶ Helped create the [poster](#) presented at the 2015 BCBL statistical learning conference.

Professor Noah Goodman (June 2014 – August 2014)

Stanford University: Computation and Cognition Lab

- ▶ Designed, ran, and analyzed [on-line experiments](#) using JavaScript, Mechanical Turk, and R.
- ▶ Created [probabilistic Church models](#) of categorical explanations. ([write-up](#))

Professor John Hale (Sept 2013 – May 2014)

Cornell University: Computational Neurolinguistics Lab

- ▶ Wrote reviews of previous neuroimaging work.
- ▶ Advertised study, scheduled participants, and conducted fMRI scans.
- ▶ Helped create the [poster](#) presented at AMLaP 2014.

WORK EXPERIENCE

Summer Hire (June 2015 – August 2015)

Ernst & Young Fraud Investigation and Dispute Services

- ▶ Designed architecture of a python package to sort emails by relevance to a dispute.
- ▶ Wrote module to segment emails into sections using machine learning and rule based techniques.

Undergraduate TA (January 2015 – May 2015)

CS 1110 - Intro to Python, CS 2800 - Discrete Structures

- ▶ Held office hours and graded assignments.
- ▶ Wrote python scripts to automate grading.

VOLUNTEER EXPERIENCE

Compost Monitoring Coordinator (January 2014 – May 2015)

Cornell University Compost Club

- ▶ Helped students sort waste in dining halls.
- ▶ Organized and conducted training for new monitors.