ASHTON TENG

650-605-7792
yqteng@berkeley.edu
ashtonteng.com
github.com/ashtonteng

Education

University of California, Berkeley — Sep 2014-present

B.A. Computer Science, B.A. Cognitive Science, expected May 2018. GPA 3.89/4.0. *Relevant Coursework:*

- *Machine Learning; Neural Computation; Artificial Intelligence; Data Science; Data Science in Neuroscience;*
- *Efficient Algorithms & Intractable Problems; Data Structures; Software Engineering; Structure & Interpretation of Computer Programs; Designing Information Devices & Systems;*
- *Cognitive Neuroscience; Circuit, Systems & Behavioral Neuroscience; Neurobiology; Mammalian Neuroanatomy Lab; Genetics, Genomics, & Cell Biology; Brain, Mind & Behavior; Cognitive Science;*
- *Linear Algebra and Differential Equations; Calculus; Concepts of Probability; Introduction to Statistics and Probability; Discrete Mathematics & Probability;*

Research

D'Esposito Lab — Jan 2016 - present (Mentors: Mark D'Esposito, Kai Hwang)

- Acquires data using transcranial magnetic stimulation (TMS) and functional magnetic resonance imaging (fMRI)
- Develops algorithms and analyzes data to discover connectivity patterns between thalamus and cortex
  - OHBM 2017 Poster "The Thalamus Mediates Interactions Between Large-Scale Cortical Functional Networks"
  - Honors thesis on the role of thalamus in brain network connectivity of autism spectrum disorders (ASD)

Gallant Lab — April 2016 - present (Mentors: Jack Gallant, Fatma Imamoglu)

- Uses NLP models to decode language semantics representation in the brain across languages
- Writes scripts to present experimental stimuli in vision-attention and language experiments

Gopnik Lab — Jan 2015 - Jan 2016 (Mentors: Alison Gopnik, Shaun O'Grady)

- Wrote scripts for stimulus presentation & conducted developmental psychology experiments with adolescents

Work

Applied Scientist Intern, Microsoft (Bing Core Relevance) — May - Aug 2017

- Conducted research in natural language processing (NLP), with a focus on question answering
- Built competitive combined CNN & RNN model on SQuAD question answering dataset (EM=68.69%, F1=77.99%)

Full Stack Developer, Berkeley Marketplace — Aug 2017 - present *github.com/yezhaoqin/BerkeleyMarketPlace*

- Built Ruby on Rails web application; central platform for efficient C2C trading exclusive to UC Berkeley community
- Actively involved in all steps of Agile development: customer meetings, design, implementation, unit&integration testing

Data Engineer, Language Exchange Program UC Berkeley — Jan 2017 - present

- Developed high-speed, maximal matching graph algorithm to match ~500 language exchange participants
- Develops scripts to automate time consuming data manipulation tasks, thousands of data entries each week

Technical Skills

- Python (tensorflow, scikit-learn, numpy, scipy, matplotlib, pandas, etc), Ruby on Rails, Java, SQL, Bash, HTML5, CSS3, Javascript, Jekyll, JQuery, Git. Linux, Unix, Windows.
- Adobe Photoshop, Adobe AfterEffects, Final Cut Pro, Microsoft Office, Apple iWork, Google Docs.

Leadership & Teaching

Neurotechnology at Berkeley (co-Founder, President) *facebook.com/neurotechberkeley*

- Leads 10-person team that plans projects, workshops, hackathons and talks related to biosensing technology for 100+ general members. Past speakers include CEO of Neurosky, CEO of OpenBCI, Neural Dust researcher.

Neurotechnology Research Review Decal (Instructor) *decal.berkeley.edu/courses/4068*

- Leads weekly lectures on neuroscience data collection methods + journal club discussion of primary research papers

Association of Chinese Entrepreneurs (Vice President) *ace.berkeley.edu*

- Organizes startup weekends, entrepreneurship talks, startup company visits, and socials