ASHTON TENG

Machine Learning, Data Science, Computational Neuroscience

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

Education

University of California, Berkeley — Sep 2014-present

B.A. candidate in Computer Science, Cognitive Neuroscience, expected May 2018. GPA 3.9/4.0. *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;*

Work

Applied Scientist Intern, Microsoft (Bing Core Relevance) — May - Aug 2017 (Mentor: Yangyang Shi)

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

Data Engineer, Language Exchange Program UC Berkeley — Jan 2017 - present (Mentor: Jade Cho)

- Developed high-speed, novel graph-theoretic algorithm to match hundreds of language exchange participants
- Develops scripts to automate time consuming data manipulation tasks

Intern, Microsoft Research Asia (Cloud + Enterprise) — June - Aug 2015 (Mentor: Joanna Li)

- Core developer for C+E China internal website
- Developed web app based on Microsoft Cognitive Services Computer Vision API

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)
- Writes algorithms and analyzes data to discover connectivity patterns between subcortical structures and cortex
  - OHBM 2017 Poster "The Thalamus Mediates Interactions Between Large-Scale Cortical Functional Networks"
  - Honors thesis on the role of thalamus in autistic brain network connectivity

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

- Uses NLP models to decode language semantics representation in the brain (ongoing multilingual project)
- Designs and develops experimental stimuli in vision-attention and language experiments

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 team that plans projects, workshops, hackathons and talks related to biosensing technology

Neurotechnology Research Review Decal (Instructor) *neurotechberkeley.org/decal*

- Official student-led course - leads weekly lectures and primary research discussions on neuroscience methods

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

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

Cognitive Science Student Association (Secretarial Chair) *cssa.berkeley.edu*

- Planned annual California Cognitive Science Conference (theme selection, speaker coordination, marketing)