ASHTON TENG

Machine Learning, Data Science, Neuroscience Research

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Education

University of California, Berkeley — Sep 2014-present

B.A. candidate in Computer Science and Cognitive Science, May 2018 (GPA: 3.9/4.0). *Coursework:*

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

Work

Microsoft (Bing Core Relevance) — May - August 2017, Sunnyvale (Mentor: Yangyang Shi)

- Research in natural language processing (NLP), focus on question answering
- Built novel competitive model on SQuAD question answering dataset

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

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

Research (Cognitive Neuroscience, Machine Learning)

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

- Writes algorithms to discover connectivity patterns between subcortical structures and cortex (honors project)
- Acquires data using transcranial magnetic stimulation (TMS) and functional magnetic resonance imaging (fMRI)

Gallant Lab — April 2016 - present (Supervisors: Jack Gallant, Leila Wehbe)

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

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

- Conducted behavioral developmental psychology experiments with adolescents
- Recruited participants in school and museum settings (cold-calling, social media, and email)

Skills

- Python (tensorflow, numpy, scipy, matplotlib, pandas, etc), 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

Extracurricular

Neurotechnology at Berkeley (co-Founder, President) *neurotechberkeley.org*

- Leads team that plans projects, workshops, hackathons and lectures related to neuroscience and technology

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

- Official student-led course - delivers weekly lectures and discussions about neurotechnology research

Cognitive Science Student Association (Internal Member, Secretarial Chair)

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

Association of Chinese Entrepreneurs (Core Member)