

ASHTON TENG

Neuromorphic Machine Learning, Data Science, Artificial Intelligence, Neuroscience

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Education

University of California, Berkeley — Sep 2014-present

B.A. candidate in Cognitive Science and Computer Science, May 2018 (GPA: 3.926/4.0). *Coursework:*

- Artificial Intelligence; Machine Learning; Data Structures; Structure and Interpretation of Computer Programs; Discrete Mathematics and Probability Theory; Neural Computation (graduate, neuromorphic machine learning);
- Data Science in Cognitive Neuroscience; Cognitive Neuroscience; Introduction to Neurobiology; Brain, Mind and Behavior; Cognitive Science;
- Linear Algebra and Differential Equations; Calculus; Probability; Introduction to Statistics and Probability;

Research Experience (Cognitive Neuroscience, Cognitive Science)

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

- Developed Python scripts to discover the role of the thalamus in modulating functional connectivity of the brain
- Recruited and coordinated experiment participants
- Acquired data using transcranial magnetic stimulation (TMS) and functional magnetic resonance imaging (fMRI)

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

- Independent project to build NLP model for English and Chinese mapping semantic meaning in the brain
- Design and development of experimental stimuli in an vision-attention experiment

Gopnik Lab — Jan 2015-Jan 2016 (Supervisors: Dr. 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)
- Presented relevant research papers in laboratory meetings

Work Experience

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

- Core Developer for C+E China internal website, Monthly C+E newsletter
- Developed a web app (SmartCrop) based on Project Oxford's (projectoxford.ai) computer vision API
- Planned, filmed, and edited an "Introduction to Project Oxford" tutorial video for developers

Skills

- Python (scikit-learn, numpy, scipy, matplotlib, nibabel, nilearn), Theano, Tensorflow, Java, SQL, Bash, HTML5, CSS, Javascript, JQuery, Git
- Adobe Photoshop, Adobe AfterEffects, Final Cut Pro, Microsoft Office, Apple iWork, Google Docs

Extracurricular

Neurotechnology at Berkeley (Founder, Board Member)

- Organizes projects and workshops related to brain-related hardware technology.

Association of Chinese Entrepreneurs (Core Member)

- General event planning (e.g. startup weekends, investor meetups)
- 2nd place in Spring 2016 Startup Weekend, with an app that provides educational video feeds to users.

Cognitive Science Student Association (Internal Member, Secretarial Chair)

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

TEDxYouth@WAB (Founder and Organizer)

- Founded the first two TEDx conferences at my high school. Led team in finding speakers, marketing, etc.