

School Address:
350 Memorial Ave.
Cambridge, MA 01239

Justine Cheng
(626)675-5223 • justinec@mit.edu

Permanent Address:
456 W. Naomi Ave.
Arcadia, CA 91007

Education

Massachusetts Institute of Technology

Cambridge, MA

June 2017

- *Candidate for Bachelor of Science in Mechanical Engineering*
- GPA: 4.50 / 5.00
- *Relevant coursework:* Organic Chemistry I, Introduction to Computer Science and Programming, Linear Algebra and Differential Equations, Introduction to Design, Engineering Materials, *Fluid Dynamics, *General Biochemistry, *Introduction to Psychological Science

Polytechnic School

Pasadena, CA

- GPA 4.41/4.00
- SAT: 2350 (800 CR, 800 M, 750 W)

Research Experience

Institute of Soldier Nanotechnologies, Undergraduate Research Opportunities Program

Cambridge, MA

Undergraduate Researcher

January 2015 – Present

- Working to develop 3D models of brain MRIs/CTs
- Multidisciplinary experience with everything from the initial segmentation and the 3D printing to working as a liaison between MIT and MGH to set up clinical trials
- Exposure to 3D printing technologies as well as segmentation programs (Amira, etc.)

Synthetic Neurobiology Group, Undergraduate Research Opportunities Program

Cambridge, MA

Undergraduate Researcher

March 2014 – October 2014

- Modeling mechanical beams in dynamic simulations to estimate breakage conditions.
- Experimenting with shape modifications to improve stability (fabrication and testing of samples)
- Basic exposure to MATLAB and SolidWorks

Leadership

Undergraduate Practice Opportunities Program

Cambridge, MA

Participant

September 2014 – present

- Participating in a yearlong professional development program for MIT sophomores
- Will complete an intensive one-week workshop taught by esteemed MIT faculty and industry professionals that explores topics such as: effective communication, foundational decision-making, and teamwork

The Tech

Cambridge, MA

Production Editor

January 2014 – present

- Layout and organization of the newspaper
- Received promotion from production staff to associate editor in September 2014
- Received promotion from associate editor to editor in December 2014
- Columbia Scholastic Press Association certificate of merit for page one design

Community Service

MIT Office of Engineering Outreach Programs

Cambridge, MA

Mentor

September 2014 – present

- Paired with a middle school student interested in STEM fields
- Participate in once-monthly mentorship activities as well as weekly contact independently

Skills, Interests, and Activities

Kappa Alpha Theta – Member, Executive Assistant

September 2013 – present

Silk Painting – Artist

September 2009 – May 2013

* coursework for spring '15 in progress