

Elizabeth Tsai

129 Franklin St, Apt. 112 · Cambridge, MA · 02139 · 832-326-7452 · elyt@mit.edu

EDUCATION

Massachusetts Institute of Technology
M.S. in Media Arts and Sciences

Cambridge, MA
June 2011 – June 2013

B.S. in Materials Science & Mechanical Engineering (*dual major 2A, 3A*)
Minors in Political Science and Biomedical Engineering

Aug 2007 – June 2011

SAT: (M) 800 (V) 740 (W) 800

GRE: (M) 800 (V) 740 (W) 55

LSAT: 173

MCAT: 36

EXPERIENCE

Oxman Lab (Mediated Matter)

MIT/Cambridge, MA

Graduate & Undergraduate Research Assistant

Jan 2011 – Present

- Developed 4D printing for multiple material and continuous gradient applications.
- Led research demos and brainstorm sessions with senior industry executives.
- Mentored 3 undergrads and helped write 4 grants resulting in \$1.8 million awarded to date.
- First author on 3 peer-reviewed publications (1 in review); co-author on 1 publication.

Essess, Inc.

Boston, MA

Part-Time Consultant

Aug 2012 – Present

- Provided mechanical and materials engineering and design support to full-time team.
- Contributed intellectual property support for engineering and management teams.

WilmerHale

Boston, MA

IP Intern

Jan 2012 – Feb 2012

- Prepared office actions, drafted claims and conducted prior art searches.
- Contributed code for large patent portfolio analysis.

Senator John Cornyn

Washington, DC

Intern

Summer 2010

- Conducted research, worked with constituents, attended hearings and conferences.
- Supported by the MIT Jeffrey L. Pressman Award.

Bhatia Lab

MIT/Cambridge, MA

Undergraduate Research Assistant

Feb 2009 – Jan 2011

- Developed microfluidic platform for investigating cancer metastasis.
 - Supported by the Alex Laats Undergraduate Research Award.
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LEADERSHIP & COMMUNITY

Benevolent Technologies for Health, LLC

Cambridge, MA

Also known as The BETH Project

Mar 2012 – Present

- Co-founded company to develop low cost adjustable prosthetic sockets for developing world.
- Currently directing material prototyping and fund-raising activities.
- Awards: MIT IDEAS Global Challenge Grant, MIT \$100K Semifinalist, Enterprise Africa 2nd Place, MassChallenge Semifinalist, H@cking Medicine Design Award, James Dyson Award Finalist.

CUE

Oct 2011 – Jan 2012

- Co-developed patient inventory and queue management system for hospitals.
- Awards: MIT \$100K Elevator Pitch Semifinalist, H@cking Medicine Design Award.

Single Entry Vascular Tissue Tunneler (SET)

Sept 2011 – Mar 2012

- Led team to develop materials for a tissue tunneler for hemodialysis graft procedures.
- Team published a peer-reviewed conference paper.

East Campus Hall Chair

MIT Dorm 2009 – 2010

- Elected by 40 students as 1 of 3 hall chairs responsible for representing the hall's interests, organizing community activities and resolving conflicts.
 - Served as a Medlink responsible for student safety and health from 2008 – 2011.
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ACTIVITIES

Fire eating, MIT Tech News Staff, Varsity Fencing, Debate, violin, piano.

LANGUAGES

Fluent in Mandarin Chinese; competent in Latin.