

SENIORS

Kat (Katherine) Li

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EDUCATION

Yale University, New Haven, CT

Expected: May 2017

BS in Biomedical Engineering (Biomechanics track), GPA: 3.8

Awards: Richard U. Light Fellowship for Language Study in Japan

EXPERIENCE

Medical Device Design and Innovation – Project Lead

Fall 2016

- Designed, fabricated, and tested a prototype for a novel medical device to increase the efficiency of heel blood draws in infants
- Worked closely with a physician mentor, Dr. Benjamin Doolittle, and three other students

Genentech, Inc., GBMSAT Cell Culture – Intern

Summer 2016

- Coordinated testing, analyzed data, and collaborated with technical experts for a new initiative to increase understanding of trace metal variability in cell culture media and its impact on cell culture process performance and product quality.
- Authored a guidance document for use by global and site manufacturing operations support teams during evaluation and risk assessment of vendor-initiated changes to raw materials

Biomechanics and Control Lab – Student Researcher

Jan 2016 - Present

- Work in Madhusudhan Venkadesan's lab on creating and testing a novel prosthetic finger based on models of tendon stiffness and contact stability
- CAD and fabrication of finger components including tendon and muscle analogs

Niklason Lab – Student Researcher

Sep 2015 – Aug 2016

- Worked in a tissue engineering lab on decellularized vessels for vascular regeneration, specifically coating chemistry for improved biocompatibility
- Performed protocol for chemical coating of engineered vessels, post-surgical sample analysis, and staining and imaging

Bradley University Stem Cell Research Lab – Student Researcher

Summer 2015

- Created and tested PCL nanofiber scaffolds for human and mouse mesenchymal stem cells

Yale Student Technology Collaborative – Project Specialist Coordinator

2014 – Present

- Manage 20 students providing graphic design and photography services to student groups

ACTIVITIES

Yale ICCS Krav Maga, Head instructor (current), Assistant instructor

2014 – Present

- Lead classes of 15+ people twice a week and organize training seminars/self-defense workshops for various student organizations

Trans@Yale, Co-founder, President

2016 – Present

- Create a platform for trans-identified students to work with student government and administration on creating supportive infrastructure in university healthcare and beyond

Yale Women's Ultimate Frisbee Team, Winter League Coordinator ('15)

2014 – Present

- Planned and oversaw the women's and men's teams' (100+ people) winter home season

SKILLS

Fabrication: machine shop (mill, lathe, CNC), 3D printing, laser cutter, power tools

CAD: Solidworks and Autodesk Inventor

Software: MATLAB, JMP, Racket (scheme), Adobe Photoshop and Lightroom, Adobe Illustrator