

Emily Huynh

2601 Warring St., Berkeley, CA 94720 • (714) 308-3181 • emily_huynh@berkeley.edu • in/emily-h

EDUCATION

University of California, Berkeley Bachelor of Science, Bioengineering

Berkeley, CA

Expected Grad: 2020

- CS61A: Structure and Interpretation of Computer Programs
- BioE10: Introduction to Biomedicine for Engineers
- Math 54: Linear Algebra & Differential Equations

- CS61B: Data Structures & Algorithms (Current)
- EE16A: Designing Information Systems & Devices I (Current)

Oxford Academy

Cypress, CA

Sept. 2012 - May 2016

- Cumulative GPA: 4.46 (W), 3.98 (UW)
- Rank: 5/185

PROFESSIONAL EXPERIENCE

Undergraduate Researcher

January 2017—Present

University of California, San Francisco; Department of Emergency

San Francisco, CA

- Working on developing clinical decision support tools for use in the ICU
- Software uses machine learning and multidimensional analyses of physiologic inputs to use EMR data for early sepsis alerts
- Assisted with data collection tasks

Intern

June 2015 - January 2016

Children's Hospital of Orange County, Medical Intelligence & Innovation Institute

Orange, CA

- Shadowed doctors in pediatric unit to identify problems within healthcare
- Synthesized and presented monthly on latest advancements in health technology related to AI to board of doctors and C-suite
- Developed an abstract on an *in vivo* biosensor for early detection using piezoelectric nanogenerators and biomarkers
- Presented abstract at annual Peds2040 conference with over 170 hospitals in attendance

ORGANIZATIONS

Fundraising Chair, Rho Pledge Class

September 2016 - Present

Theta Tau

University of California, Berkeley

- Built a table with LED lights controlled by Arduino
- Pitched and executed public philanthropy event to donate over \$800 to Treatment Advocacy Center to raise mental health awareness
- Planned several fundraisers throughout the semester to raise over \$1000

Web Development Committee

September 2016 - Present

Regents' and Chancellor's Scholar Assn.

University of California, Berkeley

- Worked with small team to maintain website using HTML/CSS and Bootstrap
- Worked on front-end development and back-end to maximize usage of website as central information system

President, Secretary, Newsletter Editor

September 2012 - May 2016

Key Club

Oxford Academy

- Coordinated over 70 events for over 250 members throughout the year
- Raised club funds by 300%
- Recorded over 1200 hours for individual members

PROJECTS

Database Management System

February 2017

- Developed a small-scale relational database management system similar to SQL with a domain specific language for user interaction
- Utilized Java to design implementation, using packages and methods to parse user input and query databases
- Used test-driven development using JUnit to refactor code to be more efficient

Scheme Interpreter

November 2016

- Created interpreter for a subset of Scheme language using Python
- Implemented methods for calling user-defined procedures, evaluating special forms, reading syntax, and symbol evaluation

AWARDS AND HONORS

Regents' and Chancellor's Scholar

Thermo-Fisher Scientific Scholarship

Henry and Elise E. Clay Scholarship Fund

Change-A-Life Scholarship

Track & Field Academy League Most Valuable Athlete