

LOREN JIANG

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Summary: I am a third-year bioengineer at UC Berkeley with a minor in Electrical Engineering and Computer Sciences, emphasizing on the medical devices track. I especially enjoy learning about control systems and 3D modeling – things I hope to apply within industry.

EDUCATION

University of California, Berkeley | Aug. 2014 – Jun. 2018

- Major: Bioengineering | Minor: Electrical Engineering and Computer Sciences (EECS) | GPA: 3.61

Capistrano Valley High School, Mission Viejo, CA | Sep. 2010 – Jun. 2014

- International Baccalaureate Diploma (38 pts.) | GPA: 4.67 | SAT: 2290

RELEVANT COURSEWORK

EECS: CS 61A (Structure and Interpretation of Programs), CS 61B (Data Structures), EE 16A / B (Information Devices and Systems), EE 120 (Signals and Systems), EE 128 (Control Systems)

Math: 1B (Single-variable Calculus), 53 (Multi-variable Calculus), 54 (Linear Algebra and Diff. Equations)

Sciences: PHYS 7A (Mechanics and Waves), PHYS 7B (Electromagnetism), CHEM 3A (Organic Chemistry)

Engineering / Design: ENG 26 (3D Modeling), ENG 45 (Prop. of Materials), BIOE 102 (Biomechanics), BIOE 104 (Biological Mass Transport)

LEADERSHIP AND EXPERIENCE

Undergraduate Researcher | Neurobat Lab (Primary Investigator: Michael Yartsev) | Jan. 2016 – Present

- Collaborated with graduate faculty to analyze bat communication, using Matlab programs and other software to segment and cluster audio and neural data based on key signal features
- Designed and manufactured tools and parts necessary for graduate researcher experiments via 3D modeling and prototyping and the Jacobs Institute makerspaces at UC Berkeley

Secretary-Treasurer / Internal Affairs Director | The Berkeley Forum | Oct. 2015 – Present

- As Secretary-Treasurer, oversaw a yearly budget of \$10,000 to host public speaker talks, debates, and panels on the UC Berkeley campus (previous guests include, but are not limited to Peter Thiel, Salman Khan, and Rand Paul)
- As Internal Affairs Director, managed the recruitment and integration process for new members

Lab Assistant | EE 16A Course Staff | Jan 2016 – May 2016 and Aug. 2016 – Dec. 2016

- Assisted students in their weekly lab sections, teaching key linear algebra concepts and circuitry to demonstrate multipixel imaging, resistive and capacitive touchscreens, and locationing

Summer Intern | ApplicantLab | May 2015 – Aug. 2015

- Created and edited new advice content to aid in the MBA admission process and assisted in static web development of a MBA admission consulting platform

Eagle Scout | Boy Scouts of America, Troop 1602 | Sep. 2008 – May 2014

- Served as patrol leader, den chief, and troop guide and, for final project, installed aluminum lettering on my high school's brick walls to indicate the names of school wings (e.g. "D – wing")

SKILLS

Computer Science: proficiency with Python, Java, HTML, CSS, Bootstrap

Engineering: proficiency with SolidWorks, Matlab, 3D prototyping