

Violet Yao

Personal Website : <https://violetyao.github.io>

GitHub : <https://github.com/violetyao>

Mobile : +1-510-928-2360

Email : violetyao@berkeley.edu

EDUCATION

- **University of California, Berkeley**

Bachelor of Arts in Computer Science and Legal Studies; GPA: 3.88

Berkeley, CA

Aug. 2018 – May. 2022

THINGS I'M GOOD AT

- **Technical Skills:** Python, Java, Git, Linux, HTML/CSS/JS, NativeScript-Vue, SQL, Natural Language Processing, PyTorch, fast.ai, scikit-learn, Docker, Pandas, Beautiful Soup, OpenCV
- **Others:** Archery, Teaching, Skateboarding, Ceramics

EXPERIENCE

- **Lawrence Berkeley National Laboratory**

Computer Systems Engineering Intern

Berkeley, CA

Jun. 2019 - Present

Developing HydroGEN, a CKAN-based DataHub for Advanced Water Splitting Devices. Collaborate intensively in GitHub; practice schemas, Docker and systems in general.

- **UC Berkeley D-Lab**

Research Assistant

Berkeley, CA

Jan. 2019 - Present

- **Measuring Hate Speech in Big Data by Unifying Deep Learning with Item Response Theory:** Implemented LSTM, CNN, Bi-LSTM and Bi-GRU for single target prediction; implemented CNN for Multi-Task Learning. Practiced PyTorch and fast.ai.
- **Computational Text Analysis of Campaign Messages in French Elections:** Extracted raw text information from French elections websites using Beautiful Soup and from newspapers/magazines using pyocr.

- **Flourish, FinTech Startup at SkyDeck**

Fullstack Intern: Developing an app in NativeScript-Vue.

Berkeley, CA

Jul. 2019 - Present

- **TextXD: Text Analysis Across Domains 2019**

Web Developer: Developing the conference website in Hugo.

Berkeley, CA

Jun. 2019 - Present

- **UC Berkeley**

Teaching Assistant

Jan. 2019 - Present

Jan. 2019 - Present

- **Curriculum Developer for LS 22:** Developing Jupyter Notebooks for LS 22 Sense, Sensibility, and Science, a course about scientific thinking and decision making taught by Prof. Saul Perlmutter.
- **Math Mentor at Bridging Berkeley:** Tutored math for youth from less represented backgrounds weekly.
- **Academic Intern for CS61A:** Assisted students with key concepts, homework, and projects during office hours.
- **Instructor at Archery Decal (MEC ENG 198):** MEC ENG 198 is a student-run course. Other instructors and I lead weekly sessions on Sunday 3 - 5:30 pm. Please feel free to come if you are interested in Archery!

- **NLP Group at Fudan University**

Research Assistant

Shanghai, China

May. 2019 - Jun. 2019

Supervised by Prof. Xipeng Qiu. Read papers; practiced PyTorch; contributed to fastNLP.

- **Datong Society of China Studies**

President

Berkeley, CA

Aug. 2018 - Present

Leading a cultural and academic group that aims to provide a communication and research platform for students who are interested in political, historical and social issues of China and East Asia.

- **AI Lab, Fosun Group**

Algorithm Intern

Shanghai, China

Dec. 2018 - Jan. 2019

Developed a medical knowledge graph using DeepDive; trained in NLP, Database, and Linux.

PROJECTS

- **Re-Exploring COMPAS Bias:** Co-authored a 23-page report on the trade-offs between fairness and effectiveness of COMPAS, a Law AI widely used in recidivism predicting. Practiced data visualization, scikit-learn and statistics.
- **ClapClass - A Treehacks 2019 Project:** Led a team of 11 to build ClapClass, a smart platform to help students find study buddies with similar study philosophy and schedule while providing a series of useful tools to boost cooperation.