

Violet Yao

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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

- **Languages:** Python, Java, Git, Linux, HTML/CSS/JS, NativeScript-Vue, SQL, C++, English, Mandarin
- **Technologies:** NLP, Systems, PyTorch, fast.ai, scikit-learn, Docker, Pandas, Beautiful Soup, OpenCV, Hugo

EXPERIENCE

- **Lawrence Berkeley National Laboratory**

Computer Systems Engineering Intern

Developed HydroGEN, a CKAN-based DataHub for Advanced Water Splitting Devices used by chemical engineers from 91 national capabilities. Practiced OOP, Docker, API requests, and GitHub Collaboration.

Berkeley, CA

Jun. 2019 - Present

- **Cycloid Studio**

Co-Founder: Leading a team of developers to provide web solutions for clients.

Berkeley, CA

Aug. 2019 - Present

- **UC Berkeley D-Lab**

Research Assistant

- **Measuring Hate Speech in Big Data by Unifying Deep Learning with Item Response Theory:** Implemented LSTM, CNN, and Bi-LSTM for single target prediction; implemented CNN for Multi-Task Learning.
- **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.

Berkeley, CA

Jan. 2019 - Present

- **Flourish, FinTech Startup at SkyDeck**

Fullstack Intern: Developing an app in NativeScript-Vue.

Berkeley, CA

Jul. 2019 - Present

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

Organizing Committee Member

Led web development for the annual conference in applied NLP: <https://www.textxd.org/>

Berkeley, CA

Jun. 2019 - Present

- **UC Berkeley**

Teaching Assistant

- **Curriculum Developer for LS 22:** Developed 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.
- **Instructor at MEC ENG 198:** Weekly taught Archery at MEC ENG 198, a student-run course.

Berkeley, CA

Jan. 2019 - Present

- **NLP Group at Fudan University**

Research Assistant

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

Shanghai, China

May. 2019 - Jun. 2019

- **Datong Society of China Studies**

President

Led a communication and research platform for students who are interested in political, historical and social issues of China and East Asia. Held biweekly seminars, exhibition, and social events.

Berkeley, CA

Aug. 2018 - Present

- **AI Lab, Fosun Group**

Algorithm Intern

Developed a medical knowledge graph using DeepDive; read papers and presented weekly on meetings.

Shanghai, China

Dec. 2018 - Jan. 2019

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.