

Violet Yao

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EDUCATION

- **University of California, Berkeley** Berkeley, CA
Bachelor of Arts in Computer Science and Legal Studies; GPA: 3.88 *Aug. 2018 – May. 2021*

SKILLS

- **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

- **UC Berkeley Devision of Data Science** Berkeley, CA
Discovery Research Program External Operations Intern *Aug. 2019 - Present*
Provide technical support, facilitate check-ins, and form inter-team connections for 200+ researchers.
- **Lawrence Berkeley National Laboratory** Berkeley, CA
Computer Systems Engineering Intern *Jun. 2019 - Present*
Developed HydroGEN, a DataHub for Advanced Water Splitting Devices used by chemical engineers from 91 national capabilities, collaborated intensively in GitHub, and presented at weekly multi-lab meetings.
- **Cycloid Studio** Berkeley, CA
Co-Founder and Head Consultant: Leading developers to provide web solutions for clients. *Aug. 2019 - Present*
- **UC Berkeley D-Lab** Berkeley, CA
Research Assistant: providing technical support for computational social scientists. *Jan. 2019 - Present*
 - **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.
- **Flourish, FinTech Startup at SkyDeck** Berkeley, CA
Fullstack Intern: Developing an app in NativeScript-Vue. *Jul. 2019 - Present*
- **TextXD: Text Analysis Across Domains 2019** Berkeley, CA
Organizing Committee Member *Jun. 2019 - Present*
Led web development for the annual conference in applied NLP: <https://www.textxd.org/>
- **UC Berkeley** Berkeley, CA
Teaching Assistant *Jan. 2019 - Present*
 - **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.
- **Datong Society of China Studies** Berkeley, CA
President *Aug. 2018 - Present*
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.
- **AI Lab, Fosun Group** Shanghai, China
Algorithm Intern *Dec. 2018 - Jan. 2019*
Developed a medical knowledge graph using DeepDive, read papers, and presented weekly on meetings.

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.