

# Violet Yao

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

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## EDUCATION

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- **University of California, Berkeley**

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

Berkeley, CA

*Aug. 2018 – May. 2021*

## THINGS I'M GOOD AT

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

## EXPERIENCE

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- **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: Led a studio which designs websites for friends, clubs, and conferences.*

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 premier NLP conference: <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 discussions.

Shanghai, China

*Dec. 2018 - Jan. 2019*

## PROJECTS

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- **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.