Bianca Yang
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Education:
Caltech — Computer Science   **June 2019 (Expected)**

Experiences:
Software Engineer, Caltech DARPA Subterranean Challenge Team   **Oct 2018 - Present**
- Developing motion planner that will allow multiple rollocopters to efficiently, effectively, and safely traverse underground environments.

Student Researcher, Caltech, Perona Lab   **Oct 2018 - Present**
- Researching machine learning techniques which can minimize power usage of hierarchical sensor systems that track infrequent events.

Cloud + AI Software Engineering Intern, Microsoft   **Jul 2018 - Sept 2018**
- Improved scheduling times and monitoring of distributed GPU system for deep learning jobs by introducing blacklisting to prevent jobs from being repeatedly attempting to schedule against unusable nodes.
- Improved resource utilization and machine status tracking in web portal using Angular/ASP.net/Typescript.

Machine Learning Researcher, Caltech CS159 Course   **March 2018 - June 2018**
- Evaluated various network architectures for multi-task reinforcement learning of variants on inverted cartpole/pendulum with A3C as the baseline algorithm. Read our report here.

Machine Learning Consultant, Virtualitics   **Jan 2017 - June 2018**
- Developed machine learning suite to improve efficiency of consulting projects.
- Created distributed grid search framework for faster training and evaluation of machine learning models.

Co-President and Board Member, Caltech Student Investment Fund   **Oct 2015 - June 2018**
- Wrote value investing based curriculum to prepare fund members to manage $750K endowment.
- Manage annual disbursements and arrange annual speaker series.

eCommerce Marketing Manager, Efficient Living   **Jun 2015 - Dec 2017**
- Expanded Japanese business through Fulfillment by Amazon and managed digital marketing campaign to drive sales.
- Launched online retail business for whiskey lovers.

Quantitative Research Associate, Fuller & Thaler Asset Management   **Jul 2017 - Sept 2017**
- Created natural language processing algorithm to analyze financial news and SEC filings to improve returns.

Awards:
3rd Place, SoCal Citadel Data Open   **Oct 2018**