

# Bianca Yang

Caltech, 1200 E. California Blvd., MSC 949, Pasadena, CA 91126

Email: [ipacifics@gmail.com](mailto:ipacifics@gmail.com) • Tel: (760) 429-4377 • Website: <https://xrtd.github.io>

---

## **Education:**

**Caltech** — Computer Science and Business, Economics, and Management

**June 2019 (Expected)**

GPA: 3.6 / 4.0

## **Skills:**

**Programming Languages:** Python (2.7, 3+), VBA Excel, SQL Server, C (11, 14), R (3.3.2)

**Data Analysis and Machine Learning Tools:** pandas, scikit learn, numpy, matplotlib, asyncio/aiohttp

## **Overview:**

A dedicated data analyst and entrepreneur with broad professional and academic experience that includes:

- Managing student investment fund to create value for the \$650k endowment
- Creating virtual reality data visualizations and machine learning insights at Virtualities
- Developed artificial intelligence toolkit to discover behavioral finance signals that can predict market returns
- Expanding efficientliving.com into international markets through the Amazon FBA network
- Developed a machine learning model to detect voter fraud for the Caltech CS101 course

## **Experiences:**

**Junior Research Analyst, Fuller & Thaler Asset Management**

**Jul 2017 - Present**

- Implemented natural language processing and asynchronous web scraper to analyze financial news and SEC filings to improve returns.

**Consultant, Virtualities**

**Jan 2017 - Present**

- Developing a machine learning suite for a virtual reality data visualization platform.

**Marketing Manager, Efficient Living**

**Jun 2015 - Present**

- Expanding business into Japan through Fulfillment by Amazon and managing digital marketing campaign to drive sales.
- Launching online retail business for whiskey lovers.

**Co-President and Board Member, Caltech Student Investment Fund**

**Oct 2015 - Present**

- Writing value investing based curriculum to prepare fund members to manage \$650K endowment.

**Machine Learning Researcher, Caltech CS101 Course**

**Sep 2016 - Dec 2016**

- Used K-Means Clustering, DBSCAN, and pandas to detect voter fraud in Florida voter registration data.

**Analyst, Caltech Investment Office**

**Jun 2016 - Sep 2016**

- Created portfolio monitoring tool using Bloomberg and Excel to aid in quarterly reporting.
- Tested a trading model using value and momentum as an alternative investment strategy for the endowment.

## **Achievements:**

**Program Participant, Twitter #DevelopH.E.R. Spring Camp**

**Jun 2017**