

# Yueqiu Sun

Palo Alto, CA, 94306

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## EDUCATION

### NEW YORK UNIVERSITY

*Master in Data Science GPA: 3.88/4.0*

**New York**

*2017-2019*

### SHANGHAI UNIVERSITY OF FINANCE AND ECONOMICS

*Bachelor in Statistics GPA: 3.73/4.0*

**Shanghai, China**

*2013-2017*

## PUBLICATION AND PRESENTATION

- Jacky H. T. Yip, Yueqiu Sun et al. (2019). *From Dark Matter to Galaxies with Convolutional Neural Networks*. Advances in Neural Information Processing Systems, 2019, ML4PS workshop.
- Sun et al. (2019). *Machine Learning to Predict Seizure Outcomes Based on RNS Background ECoG*. Poster presented at the American Clinical Neurophysiology Society Conference, Las Vegas.

## EXPERIENCE

### OSMO

**Palo Alto**

*Computer Vision / Machine Learning Engineer*

*July 2019 – Present*

- In charge of developing real-time key points detection and object detection models that enable the kids to learn and play in OSMO games with their fingers.
- Wrote production code to deploy Machine Learning models on the latest OSMO products. The vision components of the product is a success according to the user feedback.
- Current working towards building object detection models to infer the orientation and the location of OSMO hardware.

### FLATIRON INSTITUTE

**New York**

*Graduate Student Researcher(Capstone Project)*

*Sept 2018 – Feb 2019*

- Designed a semantic segmentation model to explore the link between the galaxies distribution and its underlying dark matter distribution.
- Outperformed the standard benchmark method of the field while having much more scaling and generalization abilities. Paper Accepted in NeurIPS workshop 2019.

### NYU LANGONE HEALTH

**New York**

*Graduate Student Researcher*

*July 2018 – June 2019*

- Built a supervised learning framework that reliably identified clinical conditions for epilepsy patients based on background EEG patterns. (Achieved above 85% AUC)
- Responsible for data preprocessing, feature extraction, model building, cross-validation, model evaluation, etc. Presented the poster at the ACNS Annual conference.

### NIELSEN, INC.

**Shanghai, China**

*Data Scientist Intern*

*June 2016 – Dec 2016*

- Developed several machine learning algorithms including logistic regression and random forest to deliver the store profiling project. Reduced prediction error from the previous model by 4.8%.

## RELEVANT PROJECTS AND SKILLS

### Neural Translation Machine

*Dec 2018*

- Built a neural translation system that achieved 21.3 BLEU score for Vietnamese to English translation and 12.75 BLEU score for Chinese to English translation using GRU with Luong attention.

**Programming and Analytics Tools/Languages:** Python, Tensorflow, PyTorch, C++, OpenCV, SQL, Java, OpenMP, Git, Hadoop, MATLAB.