# Yuwei Qiu | Curriculum Vitae

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## Educational Background

**School of Computer Science, Carnegie Mellon University** **Pittsburgh, PA**
*Master of Computational Data Science (MCDS)* *Aug 2018 - Dec 2019(Expected)*
*Relevant Coursework*: Cloud Computing, Introduction to Machine Learning, Interactive Data Science, Introduction to Computer System.

**Department of Electronic Engineering, Tsinghua University** **Beijing, China**
*Bachelor of Engineering, CGPA - 3.8/4.0* *Aug 2014 - Jul 2018*
*Relevant Coursework*: Data Structure & Algorithms, Machine Learning, Operating Systems, Computer Architecture

## Work Experiences

**Graduation Intern** **Tsinghua University**
*Multilabel Image Classification* *Mar 2018 - Jun 2018*
- Using Python with MXNet, concatenated advanced neural networks and built up an online API for multi-label image classification. Experimented on 1.5GB PASCAL VOC 2012 and 20GB MSCOCO 2014 respectively increasing precision by 2.2% and 1.3% compared to the-state-of-the-art method.
- This work was closely collaborated with Huawei Research, Beijing.

**Software Engineer** **Huawei Technologies**
*End-to-End Printed Chinese Text Recognition* *Nov 2017 - Jan 2018*
- Using Caffe, constructed an offline Chinese character recognition system utilizing multi-pathway CNNs and statistic CRF models, eventually boosting accuracy to 96.8% on the 20GB CMCC Chinese Database with over 20 million training/validation samples.
- This work was used in Huawei Nova series as artificial intelligence tools.

**Research Intern** **University of Pennsylvania**
*Skeleton Body Pose Prediction Based On GoPro Videos* *Jul 2017 - Sep 2017*
- Using Python with PyTorch, merged traditional Multi-View Stereo algorithms with advanced LSTM to 3D-reconstruct context from a 12GB self-collected data set of highly jittery, blurry and narrow ego-centric GoPro videos.
- This work was awarded 2017 Outstanding Undergraduate Research Award.

**Research Intern** **Tsinghua University**
*Hardness Prediction for Object Detection Inspired by Human Vision* *Dec 2016 - Jun 2017*
- Built up an interactive eye tracking experiment system with MATLAB, C++ and C#, and proposed an unsupervised learning approach with Caffe to generate eye tracking features from eye tracking data of 1300 candidates recorded by *Tobii Eye Tracker*.
- This work has been contributed to a first-authored paper, accepted as oral presentation in ICIG 2017.

## Honours and Awards

- *Person of the Year 2017 Award of Tsinghua University* for excellent academic achievements, **(top 1%, First Honor)**.
- *2017 Tsinghua Comprehensive Scholarship* for excellent overall achievements, **(top 2%, First Honor)**.
- *2016-2017 Tsinghua Annual Undergraduate Scholarship* for excellent research achievement, **(top 5%)**.

## Technical Skills

**Programming**: Python, C, C++, MATLAB, HTML, Linux, C#
**Software Packages**: MXNet, Caffe, PyTorch, TensorFlow, LaTeX