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: 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