

Xiaowei (Louis) Kuang

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EDUCATION **University of Waterloo**, Waterloo, Ontario, Canada Sep. 2017 - Present
Master of Mathematics, Computer Science
Anticipated Graduation : Aug. 2019

Chinese University of Hong Kong, Hong Kong Sep. 2015 - May. 2017
Bachelor of Science, Computer Science
Graduated with *first-class honours*
Bachelor Thesis: *Distributed Sparse Support Vector Machine for Feature Selection on High Dimensional Datasets*

Sun Yat-Sen University, Guangzhou, China Sep. 2013 - Jul. 2015
Major: Electronic Engineering

EXPERIENCE **Summer Intern** The Hong Kong Applied Science and
Technology Research Institute
Shatin, Hong Kong
Jun. 2017 – Jul. 2017
Supervisor: Lu Wang

- Developed a crowd density estimation system using deep convolutional neural networks in Caffe.
- Developed a data acquisition, data preprocessing, model training and model evaluation pipeline for the crowd density estimation system.

Husky Project Developer The Chinese University of Hong Kong
Shatin, Hong Kong
Sep. 2016 – May. 2017
Supervisor: Prof. James Cheng

- Implemented an efficient shuffle combiner for *Husky* (a distributed computing framework in C++) using the distributed messaging library ZeroMQ.
- Developed a distributed support vector machine algorithm for feature selection on high dimensional datasets.

Summer Research Intern Carnegie Mellon University
Pittsburgh, PA, USA
Jun. 2016 – Aug. 2016
Supervisor: Prof. Pulkit Grover

- Applied feature selection and machine learning algorithms in electroencephalogram (EEG) classification tasks.
- Evaluated the utilities of high density EEG system in brain activities classification.

HONORS & SCHOLARSHIPS David R. Cheriton Graduate Scholarship - \$10,000 CAD 2017 - 2018
International Masters Student Award - \$7,000 CAD 2017 - 2018
First Class Honours Graduation 2017
Dean's List 2015 - 2017
Hung On To Memorial Scholarship - \$3,000 HKD 2016 - 2017
Hitachi (Hong Kong) Ltd. Scholarship - \$1,100 HKD 2016 - 2017
ELITE Stream Scholarship - \$ 14,000 HKD 2015 - 2016
Charles K. Kao Research Exchange Scholarship - \$49,000 HKD 2015 - 2016

Third Prize Scholarship - \$1,000 CNY	2014 - 2015
China National Scholarship - \$8,000 CNY	2013 - 2014
First Prize Scholarship - \$2,000 CNY	2013 - 2014

**TEACHING
EXPERIENCE**

University of Waterloo

Teaching Assistant (TA) / Instructional Apprentice (IA)

- Data Structures and Data Management (CS240)
- User Interfaces (CS349)
- Intro to Computer Programming 1 (CS105)

Spring 2018

Winter 2018

Fall 2017