Chris J.H. Zhang

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Education

University of Toronto — Sep 2019 – present
PhD, *Computer Science*
Advisor: Prof. Raquel Urtasun

University of Waterloo — Sep 2014 – Apr 2019
BASc, *Systems Design Engineering*

Professional Experience

Uber ATG — Aug 2019 – present
Research Scientist I — *Toronto, ON*
Motion planning for autonomous vehicles.

Uber ATG — Summer 2018 and Fall 2017
Research Intern — *Toronto, ON*
Neural architecture search with applications in anytime prediction.
Efficient semantic segmentation for point clouds.

University of Waterloo — Summer 2017
Part-time Research Assistant — *Waterloo, ON*
Custom Caffe CUDA kernels for image semantic segmentation.

A9, Amazon.com — Winter 2017
Software Engineer Intern — *Palo Alto, CA*
Relevance ranking model for visual search, increasing precision & recall by 5%.

Focal Systems — Summer 2016
Software Engineer Intern — *Palo Alto, CA*
Indoor localization accurate to the meter with deep learning.

Benbria, Loop — Fall 2015
Software Engineer Intern — *New York City, NY*
Topic and sentiment analysis for customer feedback with NLP.

Ontario Institute for Cancer Research — Winter 2015
Web Developer Intern — *Toronto, ON*
NIH NCI - Genomic Data Commons new web portal.

Publications

Chris Zhang, Mengye Ren, Raquel Urtasun. "Graph Hypernetworks for Neural Architecture Search". In *International Conference on Learning Representations (ICLR)*, New Orleans, Louisiana, 2019.

Chris Zhang, Wenjie Luo, Raquel Urtasun. "Efficient Convolutions for Real-Time Semantic Segmentation of 3D Point Clouds". In *International Conference on 3D Vision (3DV)*, Verona, Italy, 2018. (**spotlight**)

Awards and Scholarships

- Dean's Honours List, University of Waterloo — 2016 – 2019
- President's Scholarship, University of Waterloo, — 2014

Skills

Technologies:
PyTorch, Tensorflow, Caffe, Torch7, Numpy, Pandas, OpenCV, Hadoop, Spark, Android, ElasticSearch, AWS, Git, Linux

Languages:
Python, C++, Matlab, Java, JavaScript, SQL