Bao Xin Chen

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Email: [baoxchen@cse.yorku.ca](mailto:baoxchen@cse.yorku.ca) | Webpage: <http://www.cse.yorku.ca/~baoxchen/> | **Country of Citizenship**: Canada

**EDUCATION**

York University, Toronto, ON

M.S. in Computer Science 2019 (expected)

Focus in Robot Vision

CGPA: 3.8 / 4.0

University of Toronto, Toronto, ON

B.S. Honors in Computer Science 2016

Focus in Artificial Intelligence (refer to my course list)

With High Distinction (CGPA: 3.84 / 4.0)

**AWARDS**

QEII-GSST, York University (CAD $15,000) 2018 – 2019

Best Paper Finalist, ICVS 2017, Shenzhen, China 2017

Best Robotics Paper, CVR 2017, Edmonton, Canada 2017

Lassonde Graduate Entrance Scholarship, York University (CAD $8,000) 2016 – 2017

Masters Domestic Funding, York University (CAD $41,666) 2016 – 2018

Dean’s List, University of Toronto 2013 – 2016

Ontario Principal’s Award 2012

**TEACHING EXPERIENCE**

York University, Toronto, ON

Teaching Assistant – in “Web Programming”

(Undergraduate) 2018-2019

Met with students in weekly labs and prepared lab slides. As well as, graded written work.

York University, Toronto, ON

Teaching Assistant – to Professor Jarek Gryz in “Introduction to Database Management Systems”

(Undergraduate) 2017-2018

Provided office hours and graded programming projects.

York University, Toronto, ON

Teaching Assistant – to Professor Uyen Trang Nguyen in “Software Tools (C language)”

(Undergraduate) 2017

Met with students in weekly labs and graded written work.

University of Toronto, Toronto, ON

Teaching Assistant – in “Computer Organization (Verilog)”

(Undergraduate) 2016

Met with students in weekly labs and graded written work, including final exam papers.

University of Toronto, Toronto, ON

Teaching Assistant – to Professor Eric Hehner in “Formal Methods in Software Design”

(Undergraduate and Graduate) 2015

Met with students in weekly tutorials and graded written work.

**EMPloyment**

Department of Engineering and Computer Science, York University, Toronto, ON

Research Assistant 2018 (summer)

Supervisor: Professor John K. Tsotsos

Department of Engineering and Computer Science, York University, Toronto, ON

Teaching Assistant 2016 – present

Department of Engineering and Computer Science, York University, Toronto, ON

Research Assistant (Undergraduate) 2016 (Summer)

Supervisor: Professor John K. Tsotsos

Department of Computer Science, University of Toronto, Toronto, ON

Teaching Assistant 2015 – 2016

IBM, Toronto, ON

Software Developer 2014 – 2015

**PUBLICATIONS AND PAPERS**

1. **Bao Xin Chen**, [Raghavender Sahdev](http://www.raghavendersahdev.com/), Dekun Wu, Xing Zhao, [Manos Papagelis](https://www.eecs.yorku.ca/~papaggel/), and [John K. Tsotsos](http://www.cse.yorku.ca/~tsotsos)

*"Scene Classification in Indoor Environments for Robots using Word Embeddings"*

In ICRA 2018 Workshop: Representing a Complex World, 2018.

1. [Raghavender Sahdev](http://www.raghavendersahdev.com/), **Bao Xin Chen**, and [John K. Tsotsos](http://www.cse.yorku.ca/~tsotsos)

*"Indoor Localization in Dynamic Human Environments using Visual Odometry and Global Pose Refinement"*

in Computer and Robot Vision (CRV), 2018 15th Conference on, IEEE, 2018, pp. 360-367.

1. **Bao Xin Chen\***, [Raghavender Sahdev](http://www.raghavendersahdev.com/)\*, and [John K. Tsotsos](http://www.cse.yorku.ca/~tsotsos)

*"*[*Integrating Stereo Vision with a CNN Tracker for a Person-Following Robot*](http://jtl.lassonde.yorku.ca/wp-content/uploads/2017/05/personfollowingrobotcnn_icvs2017.pdf)*"*

in 11th International Conference on Computer Vision Systems (ICVS), Springer, 2017, pp. 300-313. (**oral presentation**)

1. **Bao Xin Chen\***, [Raghavender Sahdev](http://www.raghavendersahdev.com/)\*, and [John K. Tsotsos](http://www.cse.yorku.ca/~tsotsos)

*"*[*Person Following Robot Using Selected Online Ada-Boosting with Stereo Camera*](http://jtl.lassonde.yorku.ca/wp-content/uploads/2017/02/pfr_paper_crv2017.pdf)*"*

in Computer and Robot Vision (CRV), 2017 14th Conference on, IEEE, 2017, pp. 48-55. (**oral presentation**)

\* denote as equal contribution

**Courses**

*Machine Learning:*

Machine Learning and Data Mining A+ Instructor: Professor Raquel Urtasun

Probabilistic Learning and Reasoning A+ Instructor: Professor Richard Zemel

Neural Networks and Machine Learning A+ Instructor: Michael Guerzhoy

*Computer Vision:*

Introduction to Visual Computing A+ Instructor: Michael Guerzhoy

Introduction to Image Understanding A+ (**Top 1**) Instructor: Professor Sanja Fidler

*Artificial Intelligence:*

Introduction to Artificial Intelligence A Instructor: Professor Fahiem Bacchus

Embodied Intelligence A Instructor: Professor John K. Tsotsos

*Robotic:*

Introduction to Robotics A+ Instructor: Professor Burton Ma

*Others:*

Data Analysis and Visualization A Instructor: Professor Manos Papagelis

Distributed Computing A- Instructor: Professor Eric Ruppert

Introduction to Computer Networks A+ Instructor: Professor Peter Marbach

Computer Networks A+ Instructor: Professor Yashar Ganjali

**Technical skills**

*Programming:* C, C++, Shell, Python, Java, JavaScript

*Machine Learning Tools:* Pytorch, Tensorflow

*Computer Vision Tools:* OpenCV

*Robotics:* ROS

*Data Analysis:* MATLAB, R

*The most frequent IED I used:* Notepad++ on Windows, Kate on Ubuntu