

## BAO XIN CHEN

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## 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, Dekun Wu, Xing Zhao, Manos Papagelis, and John K. Tsotsos  
*"Scene Classification in Indoor Environments for Robots using Word Embeddings"*  
 In ICRA 2018 Workshop: Representing a Complex World, 2018.
2. Raghavender Sahdev, **Bao Xin Chen**, and John K. 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.
3. **Bao Xin Chen\***, Raghavender Sahdev\*, and John K. Tsotsos  
*"Integrating Stereo Vision with a CNN Tracker for a Person-Following Robot"*  
 in 11th International Conference on Computer Vision Systems (ICVS), Springer, 2017, pp. 300-313.  
**(oral presentation)**
4. **Bao Xin Chen\***, Raghavender Sahdev\*, and John K. Tsotsos  
*"Person Following Robot Using Selected Online Ada-Boosting with Stereo Camera"*  
 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+ ( <b>Top 1</b> )	Instructor: Professor Sanja Fidler
<i>Artificial Intelligence:</i>		
Introduction to Artificial Intelligence	A	Instructor: Professor Fahiem Bacchus
Embodied Intelligence	A	Instructor: Professor John K. Tsotsos
<i>Robotic:</i>		
Introduction to Robotics	A+	Instructor: Professor Burton Ma
<i>Others:</i>		
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