BAO XIN CHEN

Email: baoxin.chen@outlook.com | Webpage: https://baoxinchen.github.io/ | Country of Citizenship: Canada

EDUCATION York University, Toronto, ON M.S. in Computer Science 2019 Focus in Robot Vision Computer Science & Engineering Outstanding Thesis award (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** Computer Science & Engineering Outstanding Thesis award, York University 2019 2018 & 2019 QEII-GSST, York University (CAD \$15,000/yr, I rejected) Best Paper Finalist, ICVS 2017, Shenzhen, China 2017 Best Robotics Paper, CRV 2017, Edmonton, Canada 2017 Lassonde Graduate Entrance Scholarship, York University (CAD \$8,000) 2016 - 2017Masters Domestic Funding, York University (CAD \$41,666) 2016 - 2018Norma Brock award, University of Toronto, Woodsworth College (CAD \$1,500/yr) 2014 & 2015 Dean's List, University of Toronto 2013 - 2016 2012 Ontario Principal's Award **EMPLOYMENT** NuPort Robotics, Toronto, ON **Chief Technology Officer (an Autonomous Driving Trucks startup)** 2019 - Present Department of Engineering and Computer Science, York University, Toronto, ON **Teaching Assistant** 2016 - 2019 Department of Engineering and Computer Science, York University, Toronto, ON

Research Assistant (Undergraduate) Supervisor: Professor John K. Tsotsos Department of Computer Science, University of Toronto, ON Teaching Assistant IBM, Toronto, ON Software Developer 2016 (Summer) 2015 – 2016

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

2018 (summer)

TEACHING EXPERIENCE

Research Assistant

Supervisor: Professor John K. Tsotsos

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York University, Toronto, ON

Teaching Assistant – in "Web Programming" 2018-2019

(Undergraduate)

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" 2017-2018

(Undergraduate)

Provided office hours and graded programming projects.

York University, Toronto, ON

Teaching Assistant - to Professor Uyen Trang Nguyen in "Software Tools (C

language)" 2017

(Undergraduate)

Met with students in weekly labs and graded written work.

University of Toronto, Toronto, ON

Teaching Assistant – in "Computer Organization (Verilog)" 2016

(Undergraduate)

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" 2015

(Undergraduate and Graduate)

Met with students in weekly tutorials and graded written work.

PUBLICATIONS AND PAPERS

1. Bao Xin Chen

"Real-time Online Human Tracking with a Stereo Camera for Person-Following Robots" Committee: Prof. John K. Tsostso, Prof. Michael Brown, and Prof. George Z.H. Zhu Master's thesis, 2019 (Computer Science & Engineering Outstanding Thesis award)

2. Bao Xin Chen and John K. Tsotsos

"Fast Visual Object Tracking using Ellipse Fitting for Rotated Bounding Boxes" in International Conference on Computer Vision (ICCV) Workshop, IEEE, 2019.

- 3.Xing Zhao, Manos Papagelis, Aijun An, **Bao Xin Chen**, Junfeng Liu, and Yonggang Hu "Elastic Bulk Synchronous Parallel for Distributed Deep Learning" in 19th International Conference on Data Mining (ICDM), IEEE, 2019. (**Oral**)
- 4. Xing Zhao, Aijun An, Junfeng Liu, and Bao Xin Chen

"Dynamic Stale Synchronous Parallel Distributed Training for Deep Learning" in 39th International Conference on Distributed Computing Systems (ICDCS), IEEE, 2019, pp. 1508-1517. (Oral)

5. **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"

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In International Conference on Robotics and Automation (ICRA) Workshop, IEEE, 2018.

6. 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.

7. 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) (Best Paper Finalist)

8. 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) (Best Robotics Paper)

COURSES

A+	Prof. Raquel Urtasun
A+	Prof. Richard Zemel
A+	Michael Guerzhoy
A+	Mr. Michael Guerzhoy
A+ (Top 1)	Prof. Sanja Fidler
Α	Prof. Fahiem Bacchus
Α	Prof. John K. Tsotsos
A+	Prof. Burton Ma
Α	Prof. Manos Papagelis
A-	Prof. Eric Ruppert
A+ (Top 1)	Prof. Eric Hehner
A+	Prof. Peter Marbach
A+	Prof. Yashar Ganjali
	A+ A+ A+ A+ (Top 1) A A A A+

TECHNICAL SKILLS

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

Machine Learning Tools: Pytorch, Tensorflow

Computer Vision Tools: OpenCV

Robotics: ROS

Data Analysis: MATLAB

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

^{*} denote as equal contribution