

Bao Xin Chen

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Citizenship: Canadian

Education

Sep 2012 to Apr 2016 **University of Toronto**

Honours Bachelor of Science with High Distinction, Computer Science Specialist, Focus in Artificial Intelligence
CGPA: 3.84 / 4.0

Sep 2016 to Apr 2018 **York University**

Master of Science, Computer Science, Focus in Robot Vision
CGPA: 3.80 / 4.0

Relevant Courses

Data Analysis and Visualization (A)	Introduction to Robotics (A+)
Embodied Intelligence (A)	Machine Learning and Data Mining (A+)
Distributed Computing (A-)	Probabilistic Learning and Reasoning (A+)
Databases (SQL) (A+)	Neural Networks & Machine Learning (A+)
Computer Networks (A+)	Visual Computing (A+)
Computer Networking Systems (A+)	Image Understanding (A+)

Projects

Machine Learning Facial Expression Prediction on Kaggle Team work, 2 members

- Our result was ranked in **Top 2** on the Kaggle in-class competition
- CNN (Convolutional Neural Network) was used
- AWS (Amazon Web Service) with GPU was used to train CNN

Robotic Person-Following Robot Team work, 2 members

- Proposed a robust Selected Online Ada-Boosting tracking algorithm for the person-following robot (CRV 2017)
- Proposed a Convolutional Neural Networks tracking algorithm for person-following robot (ICVS 2017)

Publications

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.

- **Received Best Robotics Paper Award**
- **Orally** presented at CRV2017, Edmonton, Canada

Bao Xin Chen, Raghavender Sahdev, and John K. Tsotsos, "Integrating Stereo Vision with a CNN Tracker for a Person-Following Robot," in *International Conference on Computer Vision Systems (ICVS)*, Springer, 2017.

- **Received Best Paper Finalist Award**
- **Orally** presented at ICVS2017, Shenzhen, China

Technical Skills

Programming:	Assembly, Java, C(#,++), VB.NET, Shell, Verilog, Scheme, Perl, Groovy, Python
Data Analysis:	MATLAB, R
Machine Learning Tools:	Pytorch, Tensorflow , Cuda
Computer Vision Tools:	OpenCV
Robotics:	ROS
Operating System:	Windows, Ubuntu, AIX

Work Experience

- May 2014 to Aug 2015 (Intern.) **IBM** (Canada) - PureData Operational Analytics Software Developer
- Worked on a PureData Operational Analytics (PDOA) System project with Java and JavaScript in a Linux based system (IBM AIX)
 - Fixed defects for PDOA to improve usability
 - Completed tasks to help fix-pack releasing
 - Improved product globalization to enhances Multilanguage support
 - Provided training for new coming team members
- Sep 2015 to Apr 2016 **U of T** (Department of Computer Science) Teaching Assistant
- TA for CSC465 Formal Methods in Software Design (Sep 2015 to Dec 2015)
 - TA for CSC258 Computer Organization (Verilog) (Jan 2016 to Apr 2016)
- Sep 2016 to Now **York University** (Department of EECS) Teaching Assistant
- Lab and office hour TA for C programming language course
 - Lab TA for web development and Android App development course
 - Project TA for database course
 - Marking TA for Java application development and web development course
- Jun 2016 to Now **York University** (Professor John K. Tsotsos' Lab) Research Assistant
- Worked on Person-following Robot project
 - Published two papers on Person-following Robot (Received two awards)

Awards

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|-----------|---|--|
| 2013-2016 | Dean's List | University of Toronto, Faculty of Arts & Science |
| 2016 | Graduated with High Distinction | University of Toronto, Woodsworth College |
| 2016 | Lassonde Graduate Entrance Scholarship (for the first year) | York University, Toronto, Canada |
| 2016 | York University Graduate Fellowship (for two years) | York University, Toronto, Canada |
| 2017 | Best Robotics Paper | AI-GI-CRV2017, Edmonton, Canada |
| 2017 | Best Paper Finalist | ICVS2017, Shenzhen, China |

Interests

Robotic, Computer Vision, Computer Hardware, New Technologies, Badminton, etc.