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| Bao Xin Chen | 1. Lassonde School of Engineering 2. York University 4700 Keele Street Toronto Ontario M3J 1P3 Canada | E-mail: baoxchen[at]cse[dot]yorku[dot]ca  **Citizenship: Canadian** |

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| **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) Embodied Intelligence (A) Distributed Computing (A-) Databases (SQL) (A+) Computer Networks (A+) Computer Networking Systems (A+) | Introduction to Robotics (A+) Machine Learning and Data Mining (A+) Probabilistic Learning and Reasoning (A+) Neural Networks & Machine Learning (A+) Visual Computing (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 Neutral 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**  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. | |