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Education

University of Toronto

- B.S. IN ART AND SCIENCE
- Specialist in computer science program with cumulative GPA of 3.9+
- Major in Statistic with cumulative GPA of 3.9 & Major in Economic with cumulative GPA of 3.23+

Researches _____

Computer Vision Research with Prof. Sanja Fidler

Researcher

• Applying deep convolution neural networks to detect and track faces in movies and using inference algorithms to distinguish characters' faces.

Ge Ya (Olga) **Xu**

☆ www.cs.utoronto.ca/ oooolga/

- NSERC undergraduate research award student.
- Part of the 2016 Undergraduate Summer Research Group(UGSRP).

Computer Vision Research with Prof. Raquel Urtasun

Researcher

- Applying deep recurrent neural networks to sport videos.
- Detecting and Annalysing important events in sport videos.

Computational Biology Summer Research with Prof. Michael Brudno

DATA ANALYST

- Working in Professor Michael Brudno's Sickkids' computational biology lab.
- Epigenetic data analysis project: using whole-blood methylation profile to predict blood composition.
- Part of the 2015 Undergraduate Summer Research Group(UGSRP).

Experience

Head Teaching Assistance for CSC384

UNIVERSITY OF TORONTO

- CSC384 is a third year computer science course learning introductory artificial intelligence algorithms.
- Responsible for marking student's assignments, projects, term tests and final exams.

Head Teaching Assistance for CSC373

UNIVERSITY OF TORONTO

- CSC373 is a third-year computer-science course learning algorithm design, analysis and complexity.
- Ran two sessions of tutorials every week. Responsible for marking student's assignments, projects, term tests and final exams.

Private Tutor and Teaching Assistance

BLUEKEY EDUCATION

- Tutoring fellow student on introductory programming courses. Inspiring other students to overcome challenges in their studies and helping students to achieve academic successes.
- Advising on the company development.

Honors & Awards

Scholarship and Awards

- 2016 NSERC Award, Undergraduate Student Research Award (\$6000CAD)
- 2015 Award, Dean's List Certificate (for consistent academic success)
- 2012 Scholarship, President's Entrance Scholarship (for high academic standing)

Honors

Toronto, Canada Toronto, Canada Toronto, Canada

Mississauga, Canada Jan. 2016 - (Exp) April. 2016

Mississauga, Canada

Aug. 2015 - Dec. 2015

Toronto, Canada

Jan. 2014 - Present

Sept. 2012 - PRESENT

Toronto, Canada Jan. 2016 - PRESENT

Toronto, Canada

Toronto, Canada

Aug. 2016 - PRESENT

Toronto, Canada

May. 2015 - Sept. 2015

2015 Highest mark in CSC420, Introduction to Image Understanding

Highest mark in ECO202, Macroeconomic Theory and Policy 2015

Autonomous Driving Project (with H. Guo)

MACHINE LEARNING AND COMPUTER VISION

Semifinalist, Capital One Data Mining Competition (with M. Ren, Z. Luo, P. Zhao) 2015

Projects

• Using stereo images from public available source - KITTI data-set. • Computed 3D world coordinates for each pixel. • Trained a convolution neural network for road detection using python's Caffe library with 93.5% accuracy. • Detected cars from the stereo images using deformable part-based model and also performed viewpoint detection of the cars using a simple SVM model with highest 10-fold accuracy of 87.3%. • Won the highest mark in the course. **Probabilistic Context-Free Grammar Model on Shakespeare Corpus** COMPUTATIONAL LINGUISTIC AND GRAPHICAL MODEL Mar. 2015 · Applied probabilistic context-free grammar to parse a grammar model for Shakespeare corpus. Applying inside-and-outside CKY dynamic algorithm to maximize the probability of each generated sentences. **Speech Recognition Project: Speaker Detection** NATURAL LANGUAGE PROCESSING Feb. 2015 • Implemented the expectation-and-maximization algorithm to train a Gaussian mixture model for speaker recognition. Achieved approximately 98% accuracy. Facial Expression Recognition (with X. Zeng) MACHINE LEARNING AND COMPUTER VISION Dec 2014 • Used different machine learning techniques to train a model which could recognize seven different facial expressions. • Scored 7 out of 63 in the facial recognition kaggle challenge (79% accuracy). Advanced Ray Tracing (with Z. Liu) **COMPUTER GRAPHICS** Mar. 2014 • Made computer graphics which contained non-trivial compound objects and implemented different features such as depth of field, texture mapping. **Course Works and Skills Third and Forth Year Courses** Toronto, Canada **COMPUTER SCIENCE & ECONOMIC** Computer Science: Advanced Machine Learning Graphical Models Natural Language Processing Artificial Intelligence Computer Graphics Android Development Numeric Methods Algorithm & Complexity Analysis Database Management Bayesian Networks Data Analysis Computational Statistic **Computer Vision** • Economics: Econometrics International Monetary Policies Skills **COMPUTER SKILLS** • Years of Coding: 7 years • Familiar Languages/Packages:

Toronto, Canada Toronto, Canada Toronto, Canada

Dec. 2015

2014-2016

SVN

SQL XML Caffe

R

Python

- LANGUAGES
- Fluent in English and Chinese.
- Matlab (++ Linux Shell Scripts Verilog HTML OpenCV
- Java С léT_FX XQuery Andriod