

# YUANYI(JOHNIE) YANG

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## EDUCATION

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**University of Toronto**, Toronto, Canada

| *Sept. 2016-Current*

*Master of Computer Engineering*

- Related Coursework: Algorithms and Data Structures, Introduction to Machine Learning, Inference Algorithms and Machine Learning, Natural Language Computing.

**Southeast University**, Nanjing, China

| *Aug. 2012-Jun. 2016*

*Bachelor of Information Engineering* Cumulative GPA: 3.57/4.00

- Related Coursework: Database System, Introduction to Communication Network, Image Signal Processing, Statistical Signal Processing, Speech Signal Processing, Principle of Embed Linux Operating System.

## SKILLS

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**Languages:** C/C++, Java, Python (Numpy, Scikit-learn, Tensorflow, Mxnet), SQL, HTML, Javascript, Ruby

**Others:** Pycharm, Matlab, MySQL, Amazon Web Service, Android Studio, Github, Linux

## ACADEMIC PROJECTS

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**Image Scene Recognition with Deep Neural Network**

| *Nov. 2016-Dec. 2016*

- Realized various image scene prediction methods with GIST and SIFT features and classifiers including KNN, SVM, Neural Network and a Convolutional Neural Network for recognizing different scenes by fine-tuning pre-trained AlexNet and VGG net on GPUs from the Amazon Web Service, with an accuracy over 70%.

**Facial Micro-Expressions Recognition**

| *Oct. 2015-May. 2016*

- Designed and realized a facial micro-expressions detection and recognition method from feature extraction to classification by programming with Python, Visual Studio and Matlab with experiments on CASME database.

## EXPERIENCE

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**Participant in Sina Weibo Interaction-prediction competition, Alibaba, China**

| *Oct. 2015-Nov. 2015*

- Predicted the forwarding, commenting and liking amount of a weibo based on over 40,000 users' historical interaction data, and achieved rank 51<sup>st</sup> in 2293 teams.

**Assistant in Pattern Learning and Mining Lab, Southeast University**

| *July. 2015 -Sep. 2015*

- Wrote a web crawler program in Python, collected and stored relevant information of films over 10 years from IMDb website in a MySQL database.
- Developed a website with HTML and Javascript to visualize the data with D3.js based on a cross-browser compatible framework.

**Participant in Mathematical Contest in Modeling (MCM), USA**

| *Feb. 2015-Mar. 2015*

- Designed an improved SIR model to predict the spread of the virus Ebola with the real data provided by WHO, and built an efficient vaccine delivery system to minimum the cost in limited time.
- Designated as **Meritorious Winner** by the Consortium for Mathematics and its Application (COMAP)