

# Terence Chow



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Thunder Bay



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github.com/terenceylchow124?  
tab=repositories

## TECHNICAL SKILLS

C/C++

CSS

HTML5

Javascript

Java

SQL

MATLAB

Python

LaTeX

Linux

AWS Cloud

Adobe Illustrator

## LANGUAGES AND TRANSFERABLE SKILLS

Cantonese (Fluent)

English (Proficient)

Mandarin (Proficient)

Time Management

Problem Solving

Data Analyzing

Multi Tasking

Adaptability

Teamwork

## EDUCATION

### Master of Computer Science

#### Lakehead University

09/2019 - Present

Thunder Bay, Canada

- Thesis title: Unsupervised and Semi-supervised Algorithms with Applications.
- Thesis supervisor: Prof. Yimin Yang and Prof. Shan Du.
- Specialization in Artificial Intelligence (GPA: 4.0/4.0).
- Scholarship: Faculty of Science and Environmental Studies (2020), International Graduate Entrance Scholarship (2019), Faculty Research Award (2020, 2019).
- Relevant Coursework: Machine Learning, Deep Learning, Computer Vision.

### Bachelor of Electronic Engineering

#### City University of Hong Kong

09/2015 - 06/2019

Hong Kong

- Final year project: Face Recognition Android System via AWS Cloud Server.
- Project supervisor: Prof. Tommy W.S. Chow.
- Major in Information Engineering (GPA: 3.18/4.0).
- Honor: Dean's List Award (Fall 2018, Winter 2019).
- Scholarships: Universal P.C.B. Equipment Co., Ltd. Scholarships (Fall 2018).
- Relevant Coursework: Digital Image Processing, Data Informatics and Learning Systems, Database Systems.

## TEACHING EXPERIENCE

### Graduate Research Assistant

#### Lakehead University

09/2019 - Present

- Organize tutoring sessions by giving programming demonstrations and instructions.
- Supervise students with subject knowledge and general abilities in learning and studying.
- Prepare solutions and marking schemes of assignments.
- Review and evaluate assignments and examinations.

## SELECTED RESEARCH PROJECTS

### Handling Class Imbalance Problem on Text Data (02/2021 - Present)

- Study varying ML and DL sampling techniques for class imbalance (Near-Miss, SMOTE, Easy-Data-Augmentation)
- Apply two word embeddings algorithms to learn text vector representation, pre-trained Glove and Bert model.
- Implement text data processing on Reddit Dataset using Hugging Face library.
- Fine-tune the pre-trained NLP model for binary sentiment classification task.

### Weakly-Supervised Image Segmentation (09/2020 - Present)

- Study state-of-the-art methods on supervised and weakly-supervised semantic segmentation models.
- Implement image-preprocessing skill on PASVAL VOC 2012 using OpenCV library.
- Develop a segmentation pipeline via pixels clustering mechanism using PyTorch framework.

### Semi-Supervised Clustering Analysis (09/2019 - 08/2020)

- Developed a feature selection based unsupervised classifier via ELM to perform local clustering using MATALB.
- Built progressive sampling based framework for solving semi-supervised clustering problem on tubular and image datasets.
- Perform deep feature extractions on pre-trained DCNNs for image datasets using Keras.
- Finished an academic journal paper (submitted to IEEE TPAMI).

### Face Recognition Android System via AWS Cloud Server (09/2018 - 04/2019)

- Implemented PCA to perform face recognition using basic Python library (Numpy, Scikit-learn, OpenCV).
- Used an pre-trained open source model, FaceNet, as a referred model to compare with PCA.
- Established cloud architecture to communicate with AWS cloud system from android system.
- Built an android application using JAVA in Android Studio.