

HUY VU

huyvu@cse.yorku.ca | [linkedin.com/in/huyvu7495](https://www.linkedin.com/in/huyvu7495) | github.com/huyvd7

EDUCATION

York University

Master of Applied Science in Electrical and Computer Engineering

Cumulative GPA: 3.95/4.00

- Relevant coursework: Machine Learning Theory, Digital Image Processing, Computer Vision

Toronto, Canada

Expected Apr. 2021

University of Information Technology

Bachelor of Engineering in Computer Engineering

Cumulative GPA: 3.5/4.00

- Award: Sunflower Mission Engineering and Technology Scholarship (2015)

Ho Chi Minh, Vietnam

Aug. 2013 – Feb. 2018

EXPERIENCE

Master's Researcher

York University, Department of Electrical Engineering and Computer Science

- Research topic: image restoration with deep learning and graph signal processing.
- Several math topics were involved, such as convex optimization, spectral analysis, approximation.
- On-going research: image denoising with graph total variation, light-field image denoising.
- Served as a reviewer of ICASSP'21 conference, TCSVT Journal.

Aug. 2019 – Present

Toronto, Canada

Teaching Assistant

York University, Department of Electrical Engineering and Computer Science

- Gave lecture on Probability to a thirty-student class.
- Were a MATLAB instructor of a few courses, including a third-year Probability course.
- Were a C programming assistant of a third-year Embedded System course.

Aug. 2019 – Present

Toronto, Canada

Data Scientist

FPT Telecom

- Analyzed billions rows of network infrastructure logs to detect network issues using clustering and classification algorithms.
- Achieved high precision rate at 93 percent while the initial expectation was 60 percent.
- Communicated with other departments to resolve detected network issues.

Mar. 2018 – May. 2019

Ho Chi Minh, Vietnam

Machine Learning Research Intern

KMS Technology, Inc.

- Built NLP models for understanding resumes and matching them with job descriptions.
- Built knowledge graphs (with neo4j) for IT recruitment domain.

Aug. 2017 – Dec. 2017

Ho Chi Minh, Vietnam

PROJECTS

Motorbike image generation using LSGAN | *Python, PyTorch, HTML, Selenium*

- Built a crawler to automatically download motorbike images on the Internet.
- Trained a Least Squares Generative Adversarial Network to generate motorbike images.

Spring 2020

PyTorch Implementation of DeepGLR | *Python, PyTorch*

- Implemented a graph neural network denoising algorithm (DeepGLR) using PyTorch.
- Runtime optimization using various techniques, such as vectorization, multiprocessing.
- The project was selected for The GitHub Arctic Code Vault program.

Fall 2019

Diabetic Retinopathy Classification using Deep Learning Model | *Python, Tensorflow, Electronjs*

- Trained a deep learning model (Inception-v3) to classify diabetes stages based on retina images.
- Deployed as a desktop application via Electronjs.

Jan. 2018

PUBLICATION

H. Vu, G. Cheung, Y. C. Eldar, "Unrolling of Deep Graph Total Variation for Image Denoising," IEEE International Conference on Acoustics, Speech and Signal Processing, June 2021.

SKILLS

Programming: Python, MATLAB, C++, SQL.