

DANG CAO CUONG

Ho Chi Minh City University of Technology

ABOUT ME

Hi! I'm currently a senior student at HCMUT, VietNam. My interest is learning science including math, physics, chemistry, and programming for modeling real-world problems. I'm also finding a mentor who can guide me on the road to Ph.D.

PERSONAL DETAILS

<i>Birth</i>	September 16, 2001
<i>Phone</i>	(+84)961301200
<i>E-mail</i>	cuong.dangcaptain@hcmut.edu.vn
<i>Homepage</i>	https://captaincuong.github.io/

EDUCATION

Ho Chi Minh University of Technology	2019-2023
<i>Currently a final year student in Computer Science and Engineering Department.</i>	

Tran Dai Nghia High School for the Gifted	2016-2019
<i>Mathematically Specialized Class</i>	

RESEARCH INTEREST

- Probabilistic Machine Learning
- Drug Discovery
- NLP
- Graph Neural Network
- Reinforcement Learning
- Federated Learning
- Robust & Reliable Machine Learning

PUBLICATION

Diffusion model for Conformer Generation	2023
<i>In progress</i>	

Attack-Prone Features: Interpret features affecting on the robustness of NLP models	2023
<i>In progress</i>	

Combining rule-based and CNN-BiLSTM models for Vietnamese text normalization	June, 2022
<i>VNICT 2022</i>	

RESEARCH ACTIVITY

Intern at OLLI Technology

June 2022

Use AI for post-processing raw text generated by an ASR system.

Monocular Depth Estimation

April 2022, Ongoing

Using generative models such as GANs, VAE to generate depth for each pixel.

Build a model of autonomous car

March 2022

This is an assignment project. We integrated AI functionalities including hand gesture recognition and lane detection to a car model.

Join iURP program

January, February 2022

Research program held by the EECS department of KAIST, Korea Advanced Institute of Science and Technology.

UNet model for Biomedical Image Analysis

January 2021

Using the UNet model and image processing techniques to solve the ISBI challenges in 2012, 2013 and 2014.

Object Localization with YOLO algorithm

November 2021

Using YOLO algorithm for detecting cats in the Oxford-IIIT Pet Dataset.

ACHIEVEMENTS

Academic Encouragement Scholarship

2020-2021

Academic Encouragement Scholarship

2019-2020

This scholarship is intended for students in my university with top 1% GPA. In that year, I got the highest GPA amongst CS students.

Mathematical Competition for High School Students in Ho Chi Minh City

2018-2019

First Prize

Scholarship for students with excellent performance in math 6 semesters

2016-2019

This scholarship is granted once a semester for top 10 percent of students with great performance in mathematical contests

Lawrence Sting Scholarship

2018-2019

A scholarship sponsored by Lawrence Sting Corporation is intended for outstanding students from High Schools for the Gifted and top Universities in Ho Chi Minh city.

Competition of Solving Problems with Casio Calculator for High School Students in Ho Chi Minh City
Second Prize

2018-2019

Mathematical Competition for High School Students in Ho Chi Minh City
First Prize

2017-2018

Vietnamese Mathematical Olympiad
Member of Ho Chi Minh City Team

2017-2018

Summer Mathematical School

2017

This school is held annually by VIASM, Vietnam Institute for Advanced Study in Mathematics, for selected students and teachers to foster mathematical ability. In this school, we are taught advanced topics in number theory, combinatorics, algebra, mathematical analysis, geometry

CERTIFICATIONS

IELTS

Overall Score: 6.5



SKILLS

Languages

Vietnamese (mother tongue)
English

Machine Learning

Familiar with libraries: SKLEARN, PYTORCH, TENSORFLOW, TORCH_GEOMETRIC, TENSORFLOW_FEDERATED

Mathematics

Familiar with Abstract Algebra, Representation Theory, Group Theory, Linear Algebra, Calculus, Probability & Statistics, Quantum Mechanics