

MINH KHOI HO

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Education

MOHAMED BIN ZAYED UNIVERSITY OF ARTIFICIAL INTELLIGENCE

Master, Computer Vision

Abu Dhabi, UAE

Incoming 09/2025

HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Bachelor, Data Science and Artificial Intelligence.

Hanoi, Vietnam

2020 - 2024

- GPA: 3.96/4 – Ranked 2nd/108 in major, 8th/7000 students in cohort 65
- Thesis: Mamba-based Contrastive Language-Image Pretraining for Endoscopic Image Analysis – 9/10
- Relevant courses: Calculus, Algebra, Probability & Statistics, Machine Learning, Data Science, Deep Learning, Computer Vision

HANOI-AMSTERDAM HIGH SCHOOL FOR THE GIFTED

Physics specialized class

Hanoi, Vietnam

2017 - 2020

- GPA: 9.5/10 – Ranked 2nd/38
- High school graduate exam: 54.2/60 – top 100 in natural science of all Vietnamese students

Awards

DAAD Scholarship for STEM disciplines in Germany	2025
Padova Excellence Scholarship (University of Padua)	2025
SMU Rising Scholars Fellowship Programme (RSFP)	2025
HUST Certificate for Excellent Graduates (140/4500 graduates in semester 2024.2)	2024
3 rd place – AI City Challenge 2024 – Track 2	2024
6x HUST Excellent Scholarship for top 5% students	2020(1), 2021(1), 2022(2), 2023(2)
7 th place - AI City Challenge 2023 - Track 3	2023
Exness Scholarship – 35/250 applicants awarded	2023
3x Hanoi-Amsterdam High School Scholarship	2017, 2018, 2020
Second Prize, Hanoi Physics Olympiad	2019
Third Prize, Hanoi Physics Olympiad	2018

Research Experience

AI4LIFE INSTITUTE FOR AI INNOVATION AND SOCIETAL IMPACT

Hanoi, Vietnam

Research Assistant to Assoc. Prof. Nguyen Phi Le

September 2024 - now

- Member of Applied AI in healthcare group (collaboration with Dr. Hieu Phan - University of Adelaide)
- Current project: Chest X-Ray Visual Question Answering with Grounding, taking part in reweighting and visualizing attention flows of VLMs' attention layers and doing literature reviews on hallucinations and visual grounding for VLMs.

BKAI RESEARCH CENTER

Hanoi, Vietnam

Research Assistant to Dr. Dinh Viet Sang

September 2022 – June 2024

- Member of Computer Vision research team
- Conducted literature reviews, programming environment testing and benchmarking on several problems in medical imaging: facial keypoints detection, polyp segmentation, pose estimation, multimodalities.

Teaching Assistant to Prof. Hung Son Nguyen

August 2023 – January 2024

- Introduction to Deep Learning course in semester 2023.1
- Prepared 5 homework sessions, 3 lab courses and materials for ~100 students
- Hosted 4 capstone project evaluation sessions for 16 groups.

LIGHTHOUSE RESEARCH TEAM

Online, October 2022 – now

- Take part weekly seminars discussing latest advancements in AI, and hosted 5 seminars related to foundations of large language models.
- Participated in two challenges in the field of AI and published one result paper related to video captioning for pre-accident caution, modified the Vid2Seq model architecture to a hierarchy of global-local features.

Publications

- Quang Minh Dinh, **Minh Khoi Ho**, Anh Quan Dang, Hung Phong Tran, “*TrafficVLM: A Controllable Visual Language Model for Traffic Video Captioning*”, Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2024, pp. 7134-7143
- Dung Nguyen*, **Minh Khoi Ho***, Huy Ta, Thanh Tam Nguyen, Qi Chen, Kumar Rav, Quy Duong Dang, Satwik Ramchandre, Son Lam Phung, Zhibin Liao, Minh-Son To, Johan Verjans, Phi Le Nguyen, Vu Minh Hieu Phan. “*Localizing Before Answering: Segmentation-Guided Large Multi-modal Model for Grounded Medical Visual Question Answering*” (accepted at International Joint Conference on Artificial Intelligence (IJCAI), 2025)

*: equal contribution

Professional Experience

MBBANK

Hanoi, Vietnam

Data Engineer at IMS room, IT department (Part time)

September 2024 – May 2025

- Integrate customers’ data from old storage to new system on S3 using Apache NiFi.
- Use ffmpeg, opencv and PIL to validate media integrity after transfer.

Data & Software Engineer Intern at IMS room, IT department (Full time)

March 2024 – September 2024

- Integrated data from internal management systems such as Jira to evaluate employee performance using ETL Pentaho and Apache NiFi, helping decrease workload for HR department by 80%.
- Built a system to conduct internal surveys for 1500 employees and provide biannual rating reports automatically on Oracle APEX with modifications of JavaScript,css and storage on Oracle SQL Server, reducing 15 man-days task to 0.5 man-days.

VIETTEL HIGH TECH

Hanoi, Vietnam

AI Researcher Intern at Electro-optic Center (Part time)

August 2022 – January 2024

- Researched segmentation-based models derived from Unet++ and DNA-Net; object tracking method based on SORT and ensemble two models to improve detection accuracy for the IRST (InfraRed Search and Track) System by 5% compared to non-deep learning methods.
- Implemented models using Python libraries: PyTorch, OpenCV; serving with ONNX and TensorRT.

Leadership and Activities

HUST 10/1985 VOLUNTEER TEAM

Vice Head of Media

2022 - 2023

- Prepared posts to promote activities on Facebook fanpage (~15000 followers).
- Made videos for the fanpage with Adobe Premiere and After Effects.

PYHA – PHYSICS & YOUTH HANOI-AMSTERDAM

Vice President

2018 - 2019

- Co-organizer of FISICO 2018 – a physics contest based on ‘The Amazing Race’ concept.
- Co-organizer of ScienceVerse 2019: Stones – a science fair for primary and secondary school students.
- Collaborated with guest speakers to host 3 seminars on physics for high school students.

Skills & Interests

Technical: Python for AI and Data processing, SQL, PowerBI (proficient); Java, C# Unity (basic)

Language: Vietnamese (native), English (8.0 IELTS – 9.0R 9.0L 8.0W 6.0S)

Research interests:

- Multimodal AI (visual – audio – textual)
- Medical Imaging (precise segmentation, interactive segmentation, 2D to 3D, test time adaptation)

References

Assoc. Prof. Nguyen Phi Le

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Acting Director, Institute for AI Innovation and Societal Impact (AI4LIFE)

Hanoi University of Science and Technology

Dr. Dinh Viet Sang

sangdv@soict.hust.edu.vn

Vice Dean, School of Information and Communications Technology (SoICT)

Hanoi University of Science and Technology