

Tien-Dat Chung

📍 Ho Chi Minh, VN ✉ chungtiendat8102000@gmail.com in datct 🎓 Dat Chung

Education

HCMUTE - University of Technology and Education - Bachelor 2018 – 2022
◦ **Major:** Computer Engineering and Technology
◦ **Thesis:** “Design of Cross-camera Tracking system for retail stores based on Deep learning”

Publications

1. Modality-Specific Enhancement and Complementary Fusion for Semi-Supervised Multi-Modal Brain Tumor Segmentation

Tien-Dat Chung, Ba-Thinh Lam, Thanh-Huy Nguyen, Thien Nguyen, Nguyen Lan Vi Vu, Hoang Loc Cao, Phat Kim Huynh, Min Xu.

AAAI 2026 Bridge Program - AIMedHealth

2. Enhancing Auxilliary Cancer Classification Task for Multi-task Breast Ultrasound Diagnosis Network

Dat T. Chung, Quan Nguyen, Minh T. Nguyen, and Vinh Q. Dinh.

IPAS 2025 - IEEE 6th International Conference on Image Processing, Applications and Systems

3. Kolmogorov-Arnold Inspired Convolutional Networks for Enhancing PPO-based Online Reinforcement Learning

Naeem Ul Islam, **Tien-Dat Chung**, Muhammad Khalid.

JETAI 2026 - Journal of Experimental & Theoretical Artificial Intelligence

4. In-context Cross-Density Adaptation on Noisy Mammogram Abnormalities Detection

H. T. Nguyen, T. B. Lam, Q. T. D. Tran, M. T. Nguyen, **D. T. Chung** and V. Q. Dinh.

SSP 2023 - IEEE Statistical Signal Processing Workshop

5. Scribble-Supervised Medical Image Segmentation with Dynamic Teacher Switching and Hierarchical Consistency

Thanh-Huy Nguyen, Hoang-Loc Cao, **Dat T. Chung**, Mai-Anh Vu, Thanh-Minh Nguyen, Minh Le, Phat K. Huynh, Ulas Bagci.

ISBI 2026 - IEEE 23rd International Symposium on Biomedical Imaging (Accepted)

Professional Experience

Carnegie Mellon University, USA - Research Collaborator Nov 2025 – Jun 2026
Advisor [Prof. Min Xu](#) 

- Leading the project: “Efficient multimodal brain tumor segmentation in MRI sequences.”
 - **Proposed** a semi-supervised cross-modality brain tumor segmentation framework. Achieved promising early results demonstrating improved segmentation accuracy under limited labels.
 - **Achievement:** A paper at the AAAI 2026 Bridge Program - AIMedHealth

North Carolina A&T State University, USA - Research Collaborator Sept 2025 – Current
Advisor [Asst. Prof. Phat Huynh](#) 

- Contributed to the benchmarking of Medical Segment Anything-based segmentation models on 3D radiological datasets (CT/MRI).
 - Conducted quantitative evaluation and analysis of segmentation performance across volumetric medical images, focusing on robustness and generalization.

Yuan Ze University, Taiwan - Research Assistant Nov 2024 – Jan 2025
Advisor [Asst. Prof. Naeem Ul Islam](#) 

- Leading the project: “Robotic Waste Classification via Reinforcement Learning and Image Segmentation”
 - **Proposed** an enhanced Proximal Policy Optimization (PPO) framework integrated with Convolutional

KAN for robotic waste classification using visual perception.

- **Achievement:** A paper at Journal of Experimental & Theoretical Artificial Intelligence.

National Yang Ming Chiao Tung University, Taiwan - Research Assistant

May 2024 – Oct 2024

Advisor [Prof. Ching-chun Huang](#) 

- Contributed the project: “Automated Labeling System for Street-Scene Images (Garmin Project)”
 - Developed of an automated labeling pipeline for street-scene images using segmentation (DINOv2) and machine learning.
 - Implemented components enabling automatic object mask generation for each input image, supporting scalable annotation workflows.

Wobot AI, USA - Computer Vision Engineer

Aug 2023 – Nov 2023

Site [Wobot AI](#) 

- Leading the project: “Person Re-Identification and Multi-Object Tracking for In-Store Analytics (McDonald’s project)”
 - **Proposed** a person re-identification and multi-object tracking framework for indoor camera systems, integrating segmentation, ReID, and tracking models.
 - **Achievement:** Demonstrated improved tracking consistency by combining YOLOv8-based segmentation with SOLIDER-ReID / CLIP-ReID and advanced trackers (BoT-SORT, OC-SORT, StrongSORT).

Vingroup Big Data Institute, Vietnam - AI Specialist

Jul 2022 – Dec 2022

Site [VinBigData](#) 

- Contributed to the project: “Mammography Cancer Detection on VinDr-Mammo Dataset”
 - Developed a mammography-based cancer detection framework, incorporating YOLOv5-based breast localization to focus on informative regions.
 - Implemented a multi-class detection model for three lesion types, enabling automated cancer analysis in mammographic images.
- Additional Training: Completed intensive training in Python, machine learning, deep learning, computer vision, and natural language processing (NLP).

University of Technology and Education, Vietnam - Research Assistant

Mar 2022 – April 2025

Group [UTE-AI](#) 

- Implemented applied researchs focused on Computer Vision:
 - **Self-Driving Car:** Implemented semantic segmentation (UNet), object detection (YOLOv5s), and PID-based driving control.
 - **Cross-Camera Person Tracking:** Applied BYTETrack and Kalman filtering with advanced tracklet association for multi-target tracking in retail environments.
 - **Smart Door Lock:** Developed a Jetson Nano-based facial recognition system using dlib, integrated with ATmega328P for peripheral device control.

Awards, Scholarship and Grants

NSTC Scholarship for International Internship Pilot Program, Taiwan

Nov 2024

Taiwan Ministry Of Education Scholarship for TEEP Program, Taiwan

May 2024

Outstanding Graduation Defense Presentation at HCMUTE, Vietnam

Aug 2023

Vingroup AI Fellowship awarded by Vingroup Big Data Institute, VN

July 2023

Academic Excellence Scholarship awarded by HCMUTE, VN

2020 - 2022

First Prize in the “Automatic guided vehicles applying AI”

May 2022

Skills

Technical Skills: Python (NumPy, Pandas, scikit-learn, PyTorch), C/C++, Bash, LaTeX, CUDA, Git, Docker.

Professional Skills: Experienced in academic writing, reviewing, and presenting at conferences. Strong communicator and collaborator with a proven record across diverse projects.

Languages: Vietnamese (native), English (fluent), Mandarin (basic).