

# Trung Dung Tran

Hanoi, Vietnam

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## EDUCATION

### Hanoi University of Science and Technology

Aug 2020-Aug 2024

Bachelor of Science in Electronics and Telecommunications, CPA: 3.6/4.0

## PROFESSIONAL EXPERIENCE

### VinUniversity

Aug 2024-Present

Research Assistant & Teaching Assistant

- Research Assistant on Serverless Computing (Supervisor: Associate Prof. Kok-Seng Wong)
- Research Assistant on WiFi CSI Data for Human Pose Estimation (Supervisor: Assistant Prof. Nguyen Van Dinh)
- Teaching Assistant for the “Signal and Information” Course in Spring 2025 (Lecturer: Associate Prof. Nidal Kamel)
- Teaching Assistant for the “Introduction to Programming” Course in Fall 2025 (Lecturer: Associate Prof. Kok-Seng Wong)
- Teaching Assistant for the “Digital Telecommunication” Course in Fall 2025 (Lecturer: Associate Prof. Nidal Kamel)

### Viettel High Tech

Dec 2023-Jul 2024

AI Engineer

- Contributed to the ITS project at VHT, specializing in the development of logic for media filters and traffic statistics on Qualcomm hardware.
- Utilized Java programming language to design and implement these functionalities, ensuring seamless integration with the Qualcomm platform.

## VOLUNTEER

### Advanced Research & Solutions Vietnam - ARS Vietnam

Sep 2023-Dec 2023

AI Trainee

- Participating in the ”AI Application Technology and Business” course sponsored 100% by the Japanese government, with ARS Vietnam responsible for training.

### SoICT - Hanoi University of Science and Technology

Oct 2022-May 2024

Teaching Assistant

- Preparing exercises for C & Python programming practice classes
- Giving tutorials to students at practice classes

## PUBLICATIONS

- [1] Dung T. Tran, Hung Vu, Anh Tran, et al., “Semise: Semi-supervised learning for severity representation in medical image,” in *2025 IEEE 22nd International Symposium on Biomedical Imaging (ISBI)*, 2025, pp. 1–4. DOI: [10.1109/ISBI60581.2025.10980996](https://doi.org/10.1109/ISBI60581.2025.10980996).
- [2] Toan D. Gian, Dung T. Tran, Quoc-Viet Pham, Le-Nam Tran, and Van-Dinh Nguyen, “ Multi-Modal Human Pose Estimation: A Wi-Fi-Driven Approach with Adaptive Kernel Selection,” *IEEE Transactions on Artificial Intelligence*, vol. 1, no. 01, pp. 1–14, Nov. 5555, ISSN: 2691-4581. DOI: [10.1109/TAI.2025.3631005](https://doi.org/10.1109/TAI.2025.3631005). [Online]. Available: <https://doi.ieeecomputersociety.org/10.1109/TAI.2025.3631005>.
- [3] Dung T. Tran, Huyen Ngoc Huyen, Hong Nguyen, Xuan-Vu Phan, and Nam-Phong Nguyen, “Adaptive rainfall forecasting from multiple geographical models using matrix profile and ensemble learning,” in *Proceedings of the 14th International Symposium on Information and Communication Technology (SoICT 2025)*, Accepted for publication, 2025. arXiv: [2509.08277 \[cs.LG\]](https://arxiv.org/abs/2509.08277). [Online]. Available: <https://arxiv.org/abs/2509.08277>.
- [4] Cuong Nguyen, Dung T. Tran, Hong Nguyen, Xuan-Vu Phan, and Nam-Phong Nguyen, “Vrae: Vertical residual autoencoder for license plate denoising and deblurring,” in *Proceedings of the 14th International Symposium on Information and Communication Technology (SoICT 2025)*, Accepted for publication, 2025. arXiv: [2509.08392 \[cs.CV\]](https://arxiv.org/abs/2509.08392). [Online]. Available: <https://arxiv.org/abs/2509.08392>.

- [5] Dung T. Tran, Nguyen B. Ha, Van-Dinh Nguyen, and Kok-Seng Wong, *Sherl-fl: When representation learning meets split learning in hierarchical federated learning*, 2025. arXiv: [2508.08339 \[cs.LG\]](https://arxiv.org/abs/2508.08339). [Online]. Available: <https://arxiv.org/abs/2508.08339>.
- [6] Hong Nguyen, Dung T. Tran, Hieu Hoang, Phong Nguyen, and Shrikanth Narayanan, *Moose: Pay attention to temporal dynamics for video understanding via optical flows*, 2025. arXiv: [2506.01119 \[cs.CV\]](https://arxiv.org/abs/2506.01119). [Online]. Available: <https://arxiv.org/abs/2506.01119>.

## PROJECTS

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### [AI Camera for traffic in Vietnam](#) | *Python, Machine Learning, Deep Learning*

2023

AiThings Lab - Hanoi University of Science and Technology

- Developed an AI-powered camera system to monitor and analyze traffic conditions in Vietnam.
- Employed computer vision techniques and deep learning models to detect vehicles and assess traffic flow, contributing to smart city initiatives.

## TECHNICAL SKILLS

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**Languages:** English (IELTS: 6.0)

**Programming:** C/C++, Python (NumPy, SciPy, Matplotlib, Pandas, Framework: Pytorch, Django), Java, SQL

**Document Creation:** Microsoft Office Suite, LaTex, Markdown