Curriculum Vitae

# Quoc Khanh Tran

📍 *Hanoi, Vietnam*
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🌐 *khanhtrq.github.io*

## Education

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|---|---|
| 09/2019 - 04/2025 (official graduation) | **B.Sc. Data Science**, *Hanoi University of Science and Technology (HUST), Vietnam*<br>• Overall GPA: 3.55 / 4.0; Major* GPA: 3.63 / 4.0<br>• Thesis: Multi-Domain Information Fusion for Plasmodium Life Cycle Development Classification - **Highest grade** at Computer Vision Thesis Defense Committee, Winter 2024 Semester [Thesis] |
| 03/2023 - 07/2023 | **Exchange Study**, *Ostbayerische Technische Hochschule (OTH) Regensburg, Germany*<br>• Funded by **Erasmus+ International Credit Mobility (KA107) Scholarship** |

*Computer science and mathematics courses

## Research Experiences

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| 09/2024 - present | **Undergraduate Research Student**, *Computer Vision Lab, The International Research Center for Artificial Intelligence (BK.AI), HUST*<br>• Collaborated with *French Armed Forces Center for Epidemiology and Public Health (CESPA)* and *French Armed Forces Biomedical Research Institute (IRBA)*<br>• Research topic: Multi-Domain Learning for Plasmodium Development Classification [Project Summary]<br>• Advisors: Dr. Nguyen Thi Oanh, Assoc.Prof. Muriel Visani, Asst.Prof. Thierry Urruty |
| 02/2024 - 06/2024 | **Research Intern**, *Singapore Institute of Manufacturing Technology (SIMTech), Agency for Science, Technology and Research (A\*STAR), Singapore*<br>• Awarded **Singapore International Pre-Graduate Award (SIPGA)**<br>• Research topic: E-waste Collection and Recycling Behaviuors Modeling in Singapore [Project Summary]<br>• Advisor: Dr. Sun Yajuan<br>• One publication at **32th CIRP Life Cycle Engineering Conference (LCE 2025)** |
| 05/2022 - 01/2024 | **Undergraduate Research Student**, *Computer Vision Lab, The International Research Center for Artificial Intelligence (BK.AI), HUST*<br>• Research topics: Auxiliary Learning for 3D Skeleton Action Recognition; View Consistency for Multi-view Action Recognition<br>• Advisor: Dr. Nguyen Thi Oanh |

## Awards and Scholarships

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|---|---|
| 2023 | **Singapore International Pre-Graduate Award (SIPGA)** |
| 2022 | **Erasmus+ International Credit Mobility (KA107) Scholarship** |
| 2019 | **Honorable Mention**, *Vietnam Mathematics Olympiad* |
| 2018 | **Third Prize**, *Vietnam Mathematics Olympiad* |

# Publications

**Quoc Khanh Tran**, Lan Zhao, Yajuan Sun, Gaoxi Xiao, Zhiquan Yeo, Chuan Fu Tan, "E-waste Collection and Recycling Behaviors: An Agent-Based Model for Intervention Assessment in Singapore," *Proceedings of the 32th CIRP Life Cycle Engineering Conference (LCE 2025)*, 2025. (Accepted). [Manuscript].

Tran Ngoc Tuan, Duong Trong Luong, Pham Viet Hoang, **Tran Quoc Khanh**, Hoang Thi Lan Huong, Tran Xuan Thang, Tran Thuy Hanh, "Classifying 2D ECG Image Database Using Convolution Neural Network and Support Vector Machine," *Proceedings of the International Conference on Intelligent Systems Design and Applications (ISDA)*, 2022, pp. 292–300. DOI: 10.1007/978-3-031-35510-3_28.

# Teaching Experiences

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| 09/2023, 09/2024 | **Teaching Assistant**, *Vingroup AI Engineer Training Program, VinBigData, Vietnam* |
| | • Computer Vision Course |
| 03/2022 - 02/2023 | **Teaching Assistant**, *School of Information and Communication Technology, HUST* |
| | • Data Structures and Algorithms Course |
| | • Collaborated with Dr. Michel Toulouse, Prof. Jeff Edmonds (visiting professor from York University) |

# Technical Skills

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| **Programming** | Python, Java, C, SQL, Gama Platform (for Modeling) |
| **Frameworks** | Deep Learning: PyTorch, MMPreTrain |
| | Deep Learning Platforms: Kaggle, Google Colab |
| | Machine Learning: Scikit-learn |
| | Computer Vision: OpenCV |
| | Data Analysis and Visualization: Pandas, Numpy, Matplotlib, Seaborn |

# Languages

English: IELTS 7.5/9.0, German: A1, Vietnamese: Native

# Extracurricular

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| 03/2023-06/2023 | **Seminar Report** "Observers Engagement in United Nations Framework Convention on Climate Change (COP) Negotiation", *OTH Regensburg* |
| 24/05/2023 | **Study Abroad Fair**, *OTH Regensburg* |
| | • Participated with an information desk about home university (HUST) and country |
| 25/03/2023 | **German Culture Workshop**, *OTH Regensburg* |
| 08/2022 | **IACR-VIASM Summer School on Cryptography**, *Vietnam Institute for Advanced Study in Mathematics (VIASM)* |