

# Quoc Khanh Tran

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🌐 [khanhtrq.github.io](https://khanhtrq.github.io)

## Education

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- 09/2019 - present    **B.Sc. Data Science**, *Hanoi University of Science and Technology (HUST), Vietnam*
- Expected (official) graduation: 04/2025
  - CGPA: 3.53 / 4.0
  - Thesis: Multi-Domain Information Fusion for Plasmodium Life Cycle Development Classification - **Highest score** at Computer Vision Thesis Defense Committee, Winter 2024 Semester [[Thesis](#)]
- 03/2023 - 07/2023    **Exchange Semester**, *Ostbayerische Technische Hochschule (OTH) Regensburg, Germany*
- Funded by **Erasmus+ International Credit Mobility (KA107) Scholarship**

## 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*
- Collaborated with *French Armed Forces Center for Epidemiology and Public Health (CESPA)* and *French Armed Forces Biomedical Research Institute (IRBA)*
  - Research topic: Multi-Domain Learning for Plasmodium Development Classification [[Project Summary](#)]
  - 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*
- Awarded **Singapore International Pre-Graduate Award (SIPGA)**
  - Research topic: E-waste Collection and Recycling Behaviours Modeling in Singapore [[Project Summary](#)]
  - Advisor: Dr. Sun Yajuan
  - 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*
- Research topics: Auxiliary Learning for 3D Skeleton Action Recognition; View Consistency for Multi-view Action Recognition
  - Advisor: Dr. Nguyen Thi Oanh

## Awards and Scholarships

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

## Publications

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**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](https://doi.org/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  
**Frameworks**       Deep Learning: PyTorch, MMLPreTrain  
Machine Learning: Scikit-learn  
Computer Vision: OpenCV  
Data Analysis and Visualization: Pandas, Numpy, Matplotlib, Seaborn

## Languages

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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 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)*