

# NGUYEN TRONG TUNG

No. 06, 01 Cluster, 03 Quarter, Tan Hung Thuan Ward, District 12, Ho Chi Minh City

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## Education

### Master student in Data Science (Now)

Johnvon Neuman Institute-Vietnam National University

2017 – 2021

### Undergraduate student in Computer Science

Advanced Program In Computer Science - Ho Chi Minh University Of Science

GPA: 9.20

2017 – 2021

## Research Interests

- Deep learning
- Graph Neural Network
- Visual Understanding
- Multi-modal Learning
- Explainable AI
- Computer Vision

## Research Experience

### VinUni-Monash University

June 2021 – Present

Research Assistant - Part-time

VinUniversity, Gia Lam, Ha Noi

- Conducting survey on the general task of change point detection.
- Writing literature review and summarized report to wrap up current techniques and methods in change point detection for multi-modal data.

### VinUni-Illinois Smart Health Center (VISHC)

December 2021 – Present

Research Assistant

VinUniversity, Gia Lam, Ha Noi

- Presented weekly seminars for various topics in AI.
- Proposed and performed individual research on the topic of Class Incremental Learning(CIL) for Pill Image Domain.
- Proposed a novel framework attached to any base CIL methods for outperforming the original one. Currently wrapping the results for writing papers.

### Cinnamon AI Company

March 2020 – March 2021

AI Researcher

Ho Chi Minh, Vinhomes Golden River

- Conducted experiments and method proposal for Information Extraction on Receipt problem with Deep learning approach.
- Demo implementation and writing technical report for the method.
- Conducted experiments and writing technical report on deep learning approach for anime colorization research topics with graph convolutional neural networks method from limited client data.
- Collaborated with teams to work on anime interpolation problem with rule-based approach.

### Software Engineering Lab, VNU-HCMUS

2019 – Present

AI Research Assistant

Ho Chi Minh

- Experimented and proposed solution for track 1 at AI City Challenge Workshop, CVPR 2020.
- Paper presentation and idea exploration talk at daily meeting lab.
- Proposed methods with AI approaches for tackling Vietnamese anomaly events and writing papers.

## Publications

### Ensembles of Action Recognition Networks with Prior Knowledge for TTS Classification Task

2021

- Authors: **Trong-Tung Nguyen**, Thanh-Son Nguyen, Gia-Bao Dinh Ho, Hai-Dang Nguyen, Minh-Triet Tran.
- Workshop: Working Notes Proceedings of the MediaEval 2021 Workshop.

### iTASK - Intelligent Traffic Analysis Software Kit

2020

- Authors: Minh-Triet Tran, Tam V. Nguyen, Trung-Hieu Hoang, Trung-Nghia Le, Khac Tuan Nguyen, Dat Thanh Dinh, Thanh-An Nguyen, Hai-Dang Nguyen, Xuan Nhat Hoang, **Trong-Tung Nguyen**, Viet-Khoa Vo-Ho, Trong-Le Do, Lam Nguyen, Minh-Quan Le, Hoang-Phuc Nguyen-Dinh, Trong-Thang Pham, Xuan-Vy Nguyen, E-Ro Nguyen, Quoc-Cuong Tran, Hung Tran, Hieu Dao, Mai-Khiem Tran, Quang-Thuc Nguyen, Tien-Phat Nguyen, The-Anh Vu-Le, Gia-Han Diep, Minh N. Do.
- Workshop: AI City Challenge Workshop, 2020 Conference on Computer Vision and Pattern Recognition (CVPR 2020), June 14-19, 2020, Seattle, Washington, S.A.

### Visual Assistant for Crowdsourced Anomaly Event Recognition in Smart City

2019

- Authors: Minh-Tri Ho, **Trong-Tung Nguyen**, Hieu Dao, Minh-Triet Tran.
- Conference: The 10th International Symposium on Information and Communication Technology.

## Awards and Scholarships

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- VinIF Scholarship 2021
- Top 2 challenge winners in Sport Task-Stroke Classification Subtask of Mediaeval Challenge 2021.
- Top 6 challenge winners in track 1 of AI City Challenge - CVPR 2020.
- Cinnamon AI Bootcamp For Student Awards - Cinnamon AI 2020.
- Best Presentation Award at SoICT Conference - Hanoi University of Science and Technology (HUST) 2019.
- Top 30 teams participating in Final Round at National Codewar Competition by FSoft - 2019.
- Global Software Talent Scholarship by FPT Software - 2019.
- Data Scientist training Scholarship from Coderschool - 2019.
- Runner-up at UNESCO Hackathon by Fossasia - 2018.
- Silver Medal in Mathematics at 30/4 Olympic Competition for Southern Region - 2016.
- Silver Medal in Mathematics at 30/4 Olympic Competition for Southern Region - 2015.
- 3rd Prize in Mathematics for Gifted Student in Ho Chi Minh City - 2014.

## Talks and Blogs

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- Invited Talk at VinUni Research Seminars - Incremental Multi-stream Intermediate Fusion for Pill Image Classification - 2022
- Invited Talk at Cinnamon AI Bootcamp Graduation Day - 2020.
- Cinnamon AI Technical Blog on "Information Extraction for receipts with AI agents" - 2020.

## Teaching Assistant

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- COMP2050 - Artificial Intelligence Spring 2022 - VinUniversity