Trong-Tung Nguyen

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Education

Master Program in Computer Science   **GPA: 9.07/10**
University of Science and John von Neumann Institute, VNU-HCM   *December 2021 – Now*

Bachelor of Science in Computer Science   **GPA: 3.9/4.0**
Advanced Program In Computer Science - University Of Science, VNU-HCM   *2017 – 2021*

Research Interests

- Computer Vision
- Graph Neural Network
- Video Understanding
- Multi-modal Learning
- Explainable AI
- Human Activity Recognition

Research Experiences

Monash University-DARPA Project   **July 2022 – Present**
Research Assistant   *Online*

- Researched on methodology of detecting social norm change points from multi-modal data.
- Conducted survey on current methods, dataset, and other related materials for change point detection problem.

VinUni-Illinois Smart Health Center (VISHC)   **December 2021 – September 2022**
Research Assistant   *VinUniversity, Gia Lam, Ha Noi*

- Research Outcome: One paper was accepted at ACCV2022 as first author.
- Perform individual research on the problem of Class Incremental Learning(CIL) for Pill Images.

Cinnamon AI Company   **April 2020 – March 2021**
AI Researcher   *Ho Chi Minh, Vinhomes Golden River*

- Worked on pipeline implementation for receipt information extraction problem with deep learning approach.
- Researched on deep learning approaches and proposed solution for anime colorization problem based on limited client data.
- Researched and implemented workflow for anime interpolation problem with rule-based approach.

Software Engineering Lab, VNU-HCMUS   **2019 – 2020**
Volunteer Research Assistant   *Ho Chi Minh University of Science*

- Proposed an independent solution for vehicle counting problem at AI City Challenge Workshop, CVPR 2020.
- Collected, and presented papers, findings for weekly seminars.
- Published research papers on AI-based solutions for tackling Vietnamese anomaly events.

Publications

Multi-stream Fusion for Class Incremental Learning in Pill Image Classification   **2022**

- Authors: **Trong-Tung Nguyen**, Hieu H.Pham, Phi Le Nguyen, Thanh Hung Nguyen, Minh Do.
- Conference: The 16th Asian Conference on Computer Vision (ACCV2022)

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

- Incentive Scholarship - Honda Award 2021.
- VinIF Scholarship 2021 for Higher Education.
- Top 2 challenge winners in Sport Task-Stroke Classification Substask 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.
- Finalist at National Codewar Competition by FSoft at National Codewar Competition by FSoft - 2019.
- Global Software Talent Scholarship - FPT Software 2019.
- Data Scientist training Scholarship - Coderschool 2019.
- Runner-up at UNESCO Hackathon - Fossasia 2018.
- Silver Medal in Mathematics at 30/4 Olympic Competition for Southern Vietnam high school student - 2016.
- Silver Medal in Mathematics at 30/4 Olympic Competition for Southern Vietnam high school student - 2015.
- 3rd Prize in Mathematics for high school gifted student at Ho Chi Minh City - 2014.

Talks and Blogs

- Invited talk at Smart Health Center Series on "Multi-stream Class Incremental Learning for Pill Image Identification"
- Invited talk at Cinnamon AI Bootcamp Graduation Day - 2020.
- Cinnamon AI Technical Blog on "Information Extraction for receipts with AI agents" - 2020.

Teaching Activity

- COMP2050 - Artificial Intelligence Spring 2022 - VinUniversity

Services

- Reviewer of The 19th Pacific Rim International Conference on Artificial Intelligence (PRICAI2022).