

# HOANG NGUYEN

## Curriculum Vitae

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### Personal Information

Full Name **Hoang M. Nguyen**  
Date of Birth October 2, 2000  
Nationality Vietnamese  
Personal [LINK](#)  
Webpage

### Education

9/2018-12/2022 **Bachelor degree, Honors program**, University of Science, Vietnam National University Ho Chi Minh (VNU-HCMUS)

**Study Fields:** Mathematics and Computer Science

**GPA:** 9.12/10.0

**Bachelor thesis:** Fall detection using Mixture of Convolutional Neural Networks

**Supervisor:** Dr. Nguyen Thanh Binh, Associate Professor, Head of the Department of Computer Science, Faculty of Mathematics and Computer Science, Vietnam National University, Ho Chi Minh (VNU-HCM), Vietnam.

### Publications

- [1] Duy M. H. Nguyen<sup>†</sup>, Hoang Nguyen<sup>\*†</sup>, Tri Cao, Binh T. Nguyen, Nhat Ho, Paul Swoboda, Shadi Albarqouni, Pengtao Xie, Mathias Niepert, Daniel Sonntag, **FoundMed: Learning Large-Scale Medical Pre-trained Models with End-To-End Higher-Order Graph Matching**, *Under Review at [NeurIPS 2023](#)*. <sup>†</sup>: Co-equal contribution
- [2] Thao V. Ha, Hoang M. Nguyen<sup>\*</sup>, Son T. Huynh, Binh T. Nguyen, **Fall Detection Using Mixtures of Convolutional Neural Networks**, *Under Review at [Multimedia Tools and Applications 2022 \(SCI Q1 Journal\)](#)*.
- [3] Duy M. H. Nguyen, Hoang Nguyen<sup>\*</sup>, Truong N. T. Mai, Tri Cao, Binh T. Nguyen, Nhat Ho, Paul Swoboda, Shadi Albarqouni, Pengtao Xie, Daniel Sonntag, **Joint Self-Supervised Image-Volume Representation Learning with Intra-Inter Contrastive Clustering**, *37th [AAAI Conference on Artificial Intelligence 2023 \(Rank A\\*\)](#)*.
- [4] Ha, T.V., Hoang Nguyen<sup>\*</sup>, Huynh, S.T., Nguyen, T.T., Nguyen, B.T., **Fall Detection Using Multimodal Data**, *28th International Conference on Multimedia Modeling ([MMM](#)) 2022 (Rank B)*.
- [5] Khanh Quoc Tran, An Tran-Hoai Le, An Trong Nguyen, Tung Tran Nguyen Doan, Son Huynh Thanh, Bao L. Hoang, Hoang Nguyen<sup>\*</sup>,... Trung T. Nguyen, **SEND: A simple and efficient noise detection algorithm for Vietnamese real estate posts**, *36th Annual Meeting of Pacific Asia Conference on Language, Information and Computation ([PACLIC](#)) 2022 (Rank B)*.

### Research Experience

05/2023 **Research Assistant**, Vin University ([VinUni](#)), Ha Noi, Vietnam.

Supervisor: **Associate Prof. Dang Doan Khoa**

Tasks: Graph structure learning with applications in computer vision and bio-medical domains.

08/2022 – **Research Internship (Remote)**, *German Research Center for Artificial Intelligence (DFKI)*,  
04/2023 Saarbrücken, Germany.

Supervisor: **Prof. Daniel Sonntag**

Tasks: Developing self-supervised learning and domain adaptation algorithms with applications in computer vision, medical imaging.

06/2022 – **Research Internship**, *CirTech Insitute, Hutech University*, Ho Chi Minh City, Vietnam.

07/2022 Supervisor: **Prof. Nguyen Xuan Hung**

Tasks: Developing algorithms to reconstruct 2D faces image to 3D faces, used in 3D printer machines.

01/2022 – **Research Internship**, *AISIA Research Lab, University of Science VNU-HCMUS*, Vietnam.

05/2022 Supervisor: **Associate Prof. Nguyen Thanh Binh**

Tasks: Annotating and Running NLP model on Name Entity Recognition tasks.

## scholarships & Awards

- [1] HCMUS's scholarship to encourage excellence in study 2nd semester 2018-2019 and 1st semester 2020- 2021
- [2] Honors program's scholarship to encourage excellence in study 1st semester 2020- 2021
- [3] 1st Runner-up in the Paper Award in Computing entitled, *36th Annual Meeting of Pacific Asia Conference on Language, Information and Computation (PACLIC) 2022*

## Academic Achievements & Recognitions

- 2015 Gold medal in Mathematics subject - grade 10 in the Olympic Competition on April at Ho Chi Minh City
- 2016 Gold medal in Mathematics subject - grade 11 in the Olympic Competition on April at Ho Chi Minh City
- 2017 Third prize in Mathematics subject - grade 12 in the Excellent student of city level
- 2022 Graduated with Excellent rank in the 2018-2022 academic year at Vietnam National University Ho Chi Minh City

## Technical skills

Language IETLS (7.0)

Programming Advanced in Python and PyTorch, be familiar with Keras, R, C, C++

Other Github, Overleaf, Docker, Notion

## Referees

- [1] Assoc. Prof. Binh Thanh Nguyen (Email: [ngtbinh@hcmus.edu.vn](mailto:ngtbinh@hcmus.edu.vn))  
Google Scholar : <https://scholar.google.com/citations?user=dXEb3PMAAAAJ>  
Head of Department of Computer Science, Faculty of Mathematics and Computer Science, the University of Science, Vietnam National University in Ho Chi Minh City, Vietnam.
- [2] Prof. Dr. Nguyen Xuan Hung (Email: [ngx.hung@hutech.edu.vn](mailto:ngx.hung@hutech.edu.vn))  
Google Scholar : <https://scholar.google.com/citations?user=3iK9h-gAAAAJ>  
Director of CIRTech Institute, Ho Chi Minh City University of Technology (HUTECH).

- [3] Prof. Dr. Danniell Sonntag (Email: [daniel.sonntag@dfki.de](mailto:daniel.sonntag@dfki.de))  
Google Scholar : <https://scholar.google.com/citations?user=v7i6Uz4AAAAJ>  
Scientific Director of Interactive Machine Learning Department, DFKI Saarbrücken.