Minh-Thanh Nguyen

+84-38-561-5575 | minhthanh.31oct2k3@gmail.com | thanh.nm210802@sis.hust.edu.vn

EDUCATION

Hanoi University of Science and Technology (HUST) — Hanoi, Vietnam
*B.Eng. in Electronics and Telecommunications. GPA: **8.28/10** or **16.56/20** (very good)* — *09.2021 – 08.2025*
- Relevant courses: Computer Networks (A), Telecommunications Systems (A), Operating Systems (A), Data Structure and Algorithms (A+), C/C++ Programming Language (A)

Trinity College Dublin, the University of Dublin — Dublin, Ireland
PhD Candidate in School of Computer Science and Statistics, Computer Science — *03.2026 – 02.2030*

PROJECTS

Efficient resource allocation for 5G network slicing — 09.2023 – 10.2025
Research assistant — *ANSALab, HUST*
- Built a simulation framework for comparing performance of different algorithms for various variant of network slice embedding problems.
- Formulate optimization model for different variants of network slice embedding problem.

Deploy 5G network slicing testbed — 01.2025 – 10.2025
Research assistant — *ANSALab, HUST*
- Deploy and administration a private cloud computing system.
- Deploy a 5G networks with basic components with end-to-end slicing capability.

Computer vision applications with microservices architecture — 01.2025 – 10.2025
Research assistant — *ANSALab, HUST*
- Develop a microservice architecture for some common computer vision tasks.
- Deploy to cloud-native platforms to enable dynamic scaling.

Machine learning for typhoon formation prediction — 02.2023 – 08.2025
Research assistant — *ANSALab, HUST*
- VINIF-funded project between HUST, Vietnam National University, and Indiana University Bloomington.
- Set up virtual environment on the Big Red super computer to process large amount of data.
- Developed a data processing workflow for weather data from NCEP/NASA.

SKILLS

Programming: Python, C/C++, C#, JavaScripts, Lua, Bash, PowerShell
Technical: OpenStack, Kubernetes, Basic Linux Server Administration
Languages: Vietnamese (native), English (IELTS 7.0)
Writings: Microsoft Word, Microsoft PowerPoint, LaTeX

AWARDS

Best Graduation Thesis Award *Hanoi University of Science and Technology* — Jul. 2025
First Prize at 2025 Student Research Competition *Hanoi University of Science and Technology* — Jun. 2025
Best Poster Award *Asian Internet Engineering Conference 2023, Hanoi* — Dec. 2023
Third Prize in Chemistry *Hung Yen Provincial Olympiad* — Jan. 2021
Consolidation Prize in Chemistry *Vietnam National Olympiad* — Mar. 2020
Silver Medal in Chemistry *15th Hung Vuong Summer Science Camp* — Jul. 2019

PUBLICATIONS

[C1] Q.-T. Luu, **M.-T. Nguyen**, T.-H. Nguyen, M. Kieffer, V.-D. Nguyen, Q.-L. Luu, and T.-T. Nguyen, "Admission Control and Embedding of Network Slices with Flexible VNF Order," in *2024 20th International Conference on Network and Service Management (CNSM)*, 2024, pp. 1–5.

[C2] **M.-T. Nguyen**, Q.-T. Luu, T.-H. Nguyen, D.-M. Tran, T.-A. Do, K.-H. Do, and V.-H. Nguyen, "Accelerating Network Slice Embedding with Reinforcement Learning," in *2024 Tenth International Conference on Communications and Electronics (ICCE)*, 2024, pp. 78–83.

REFERENCES

Assoc. Prof. Tai-Hung Nguyen — Hanoi University of Science and Technology
hung.nguyentai@hust.edu.vn — *1 Dai Co Viet Str., Hanoi 100000, Vietnam*
Assoc. Prof. Quang-Trung Luu — CentraleSupélec, Université Paris-Saclay
quangtrung.luu@centralesupelec.fr — *3 rue Joliot-Curie, 91192 Gif-sur-Yvette, France*