

Minh-Thanh Nguyen

+84-38-561-5575 | [minhthanh.31oct2k3\[at\]gmail.com](mailto:minhthanh.31oct2k3[at]gmail.com) | [thanh.nm210802\[at\]sis.hust.edu.vn](mailto:thanh.nm210802[at]sis.hust.edu.vn)

EDUCATION

Hanoi University of Science and Technology

B.Eng. in Electronics and Telecommunications. GPA: 3.31/4.0 (very good)

Hanoi, Vietnam

2021 – 2025

PROJECTS

Efficient resource allocation for 5G network slicing

09.2023 – 08.2025

Research assistant

ANSALab, HUST, Hanoi, Vietnam

- 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 – 08.2025

Research assistant

ANSALab, HUST, Hanoi, Vietnam

- 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 – 08.2025

Research assistant

ANSALab, HUST, Hanoi, Vietnam

- 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, Hanoi, Vietnam

- VINIF-funded project between HUST, VNU, 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.

AWARDS

Best graduation thesis award

Jul. 2025

SEEE, HUST

First prize at 2024–2025 Student Research Competition

Jun. 2025

2024–2025 Student Research Competition, HUST

First place at 2025 Student Research Competition

Jun. 2025

2025 Student Research Competition, Dept of Communication Engineering, SEEE, HUST

Best poster award

Dec. 2023

AINTEC 2023

3rd prize in Chemistry

Jan. 2021

Hung Yen Provincial Olympiad

Consolidation Prize in Chemistry

Mar. 2020

National Olympiad

Silver Medal in Chemistry

Jul. 2019

15th Hung Vuong Summer camp

PUBLICATIONS

Conferences

[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

hung.nguyentai@hust.edu.vn

Assist. Prof. Quang-Trung Luu

trung.luuquang@hust.edu.vn

Hanoi University of Science and Technology

1 Dai Co Viet Str., Hanoi 100000, Vietnam

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