

Minh-Thanh Nguyen

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EDUCATION

Hanoi University of Science and Technology <i>B.Eng. in Electronics and Telecommunications. GPA: 3.22/4.0 (very good)</i>	Hanoi, Vietnam 2021 – 2025
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PROJECTS

Efficient resource allocation for network slicing in 5G and beyond <i>Research assistant</i> <ul style="list-style-type: none">Formulate optimization model for different variants of network slice embedding problemDeveloping efficient algorithms to allocate resources to network slices in 5G and beyond	09.2023 – 06.2025 <i>ANSALab, HUST, Hanoi, Vietnam</i>
Developing 5G network slicing testbed <i>Research assistant</i> <ul style="list-style-type: none">Deploy and maintain a private cloud computing systemDeploy a 5G testbed with basic components with end-to-end network slicing capabilities	01.2025 – 06.2025 <i>ANSALab, HUST, Hanoi, Vietnam</i>
Computer vision applications with microservices architecture <i>Research assistant</i> <ul style="list-style-type: none">Develop a microservice architecture for common computer vision tasksDevelop cloud-native platforms to enable dynamic scaling	01.2025 – 06.2025 <i>ANSALab, HUST, Hanoi, Vietnam</i>
Machine learning for typhoon formation prediction <i>Research assistant</i> <ul style="list-style-type: none">VINIF-funded project between HUST, UET-VNU, and Indiana University BloomingtonDevelop a virtual environment on a super computer (BigRed) to handle massive amount of climatological dataDevelop a data processing workflow for various climatological datasets (NCEP-FNL, NASA-MERRA2, etc.)	02.2023 – 06.2025 <i>ANSALab, HUST, Hanoi, Vietnam</i>

AWARDS

First Prize <i>2025 Student Research Competition, Hanoi University of Science and Technology</i>	Jun. 2025
First Prize <i>2025 Student Research Competition, School of Electrical and Electronics Engineering, HUST</i>	Jun. 2025
Best Poster Award <i>The 18th Asian Internet Engineering Conference (AINTEC)</i>	Dec. 2023
Third Prize in Chemistry <i>Hung Yen Provincial Chemistry Olympiad</i>	Jan. 2021
Consolidation Prize in Chemistry <i>Vietnam National Chemistry Olympiad</i>	Mar. 2020
Silver Medal in Chemistry <i>15th Hung Vuong Summer Camp</i>	Jul. 2019

SKILLS

Programming: Python, C/C++, C#, JavaScripts, Lua, Bash, PowerShell
Language: Vietnamese (native), English (IELTS 7.0)
Writing: Microsoft Word, Microsoft PowerPoint, L^AT_EX

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 <i>hung.nguyentai@hust.edu.vn</i>	Hanoi University of Science and Technology 1 Dai Co Viet Str., Hanoi 100000, Vietnam
Assist. Prof. Quang-Trung Luu <i>trung.luuquang@hust.edu.vn</i>	Hanoi University of Science and Technology 1 Dai Co Viet Str., Hanoi 100000, Vietnam