

Minh-Thanh Nguyen

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EDUCATION

Trinity College Dublin, The University of Dublin <i>Ph.D. in Computer Science</i>	Dublin, Ireland 03.2026 – 02.2030
Hanoi University of Science and Technology (HUST) <i>B.Eng. in Electronics and Telecommunications. GPA: 3.32/4.0 (very good)</i>	Hanoi, Vietnam 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)

PROJECTS

Efficient resource allocation for 5G network slicing <i>Research assistant</i>	09.2023 – 10.2025 <i>ANSALab, HUST</i>
• 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 <i>Research assistant</i>	01.2025 – 10.2025 <i>ANSALab, HUST</i>
• 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 <i>Research assistant</i>	01.2025 – 10.2025 <i>ANSALab, HUST</i>
• 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 <i>Research assistant</i>	02.2023 – 08.2025 <i>ANSALab, HUST</i>
• 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, L ^A T _E X

AWARDS

Best Graduation Thesis Award <i>Hanoi University of Science and Technology</i>	Jul. 2025
First Prize at 2025 Student Research Competition <i>Hanoi University of Science and Technology</i>	Jun. 2025
Best Poster Award <i>Asian Internet Engineering Conference 2023, Hanoi</i>	Dec. 2023
Third Prize in Chemistry <i>Hung Yen Provincial Olympiad</i>	Jan. 2021
Consolidation Prize in Chemistry <i>Vietnam National Olympiad</i>	Mar. 2020
Silver Medal in Chemistry <i>15th Hung Vuong Summer Science Camp</i>	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 hung.nguyentai@hust.edu.vn
Assoc. Prof. Quang-Trung Luu quangtrung.luu@centralesupelec.fr

Hanoi University of Science and Technology 1 Dai Co Viet Str., Hanoi 100000, Vietnam CentraleSupélec, Université Paris-Saclay 3 rue Joliot-Curie, 91192 Gif-sur-Yvette, France
