

Minh-Thanh Nguyen

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EDUCATION

Trinity College Dublin, The University of Dublin	Dublin, Ireland
<i>Ph.D. in Computer Science</i>	03.2026 – 02.2030
Hanoi University of Science and Technology (HUST)	Hanoi, Vietnam
<i>B.Eng. in Electronics and Telecommunications. GPA: 3.32/4.0 (very good)</i>	09.2021 – 08.2025
<ul style="list-style-type: none">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	09.2023 – 10.2025
<i>Research assistant</i>	<i>ANSALab, HUST</i>
<ul style="list-style-type: none">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
<i>Research assistant</i>	<i>ANSALab, HUST</i>
<ul style="list-style-type: none">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
<i>Research assistant</i>	<i>ANSALab, HUST</i>
<ul style="list-style-type: none">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
<i>Research assistant</i>	<i>ANSALab, HUST</i>
<ul style="list-style-type: none">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^AT_EX

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