

HOANG-NHAT NGUYEN

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EDUCATION

Nanyang Technological University (NTU) - Singapore January 2026 - Present
Doctor of Philosophy in Computer Science

Hanoi University of Science and Technology (HUST) - Viet Nam October 2020 - August 2024
Bachelor of Mathematics and Informatics - **Talented Program** GPA: **3.64/4.00** - **Excellent** Degree

PUBLICATIONS

- **Hoang-Nhat Nguyen**, “AHAN: Asymmetric Hierarchical Attention Network for Identical Twin Face Verification”, *Proceedings of the AAAI Conference on Artificial Intelligence*, vol. 40, no. 10, Mar. 2026, pp. 8134-41, doi.org/10.1609/aaai.v40i10.37760.
- Thi-Hoa-Hue-Nguyen and **Hoang Nhat Nguyen**, “A Knowledge Graph-Based Framework for Personalized Course Recommendations in Higher Education,” *2025 8th International Conference on Artificial Intelligence and Big Data (ICAIBD)*, 853-858, 2025, [doi: 10.1109/ICAIBD64986.2025.11082069](https://doi.org/10.1109/ICAIBD64986.2025.11082069).
- Ngoc Bach Pham, Linh Nguyen Duy, Bao Bui Quoc and **Nhat Nguyen Hoang**, “Integrating Computational Advertising with Guaranteed Display for Enhanced Performance in Wi-Fi Marketing,” *Annals of Computer Science and Information Systems*, 42, 63-69, 2024, [doi: 10.15439/2024R109](https://doi.org/10.15439/2024R109).

EXPERIENCES

Research Engineer March 2024 - Present
[Samsung Research and Development Center Viet Nam](#) | Hanoi, Viet Nam.

- Conducted research and development of Computer Vision solutions for security and surveillance systems in manufacturing environments, including face recognition, sensitive electronic component leakage detection in X-ray images, and CCTV image analysis for compliance and risk prevention.
- Proposed a fine-grained attention-based facial verification approach to improve identical twin discrimination, guiding the model to focus on subtle local features, outperforming the state-of-the-art baseline.

Research Assistant October 2023 - March 2024
[CMC Research Institute](#) | Hanoi, Viet Nam. **Supervisor:** Assoc. Prof. [Nguyen Thi Ngoc Anh](#).

- Conducted research on NLP methods to analyze regulatory documents, with the goal of identifying overlaps, inconsistencies, and structural conflicts across legal texts.
- Proposed a knowledge graph and domain ontology-driven approach to detect authority conflicts in the issuance of legal normative documents. The method further generated structured evidence chains to explain detection outcomes, enhancing interpretability and transparency in legal decision-support processes.

AWARDS & RECOGNITION

- **Top 4 Finalist | HUST - SoICT Hackathon** December 2024
- **First Prize Winner | HUST - SAMI AI Challenge** November 2023
- **Samsung Talent Program Scholarship** August 2023
Awarded to the top 1% of applicants.
- **HUST Study Encouragement Scholarship** July 2022 & May 2024
Awarded to the top 4.5% of students for academic excellence.
- **IELTS Academic: 7.0** April 2024