

EDUCATION

School of Computing, Dublin City University

2024 - 2028 (*expected*)

Ph.D. in Computer Application

- Supervisor: Prof. Cathal Gurrin and Asst. Prof. Ling Zhou
- Research area: Information Retrieval in Modality

Ho Chi Minh University of Science, Vietnam National University

2019-2023

B.E. in Mathematics and Computer Science

- Supervisor: Assoc. Prof. Binh T. Nguyen and Dr. Minh-Man Ngo
- GPA: 3.71/4.00.

PUBLICATIONS

1. Duy MH Nguyen, Nghiem T Diep, Trung Q Nguyen, **Hoang-Bao Le**, Tai Nguyen, Tien Nguyen, TrungTin Nguyen, Nhat Ho, Pengtao Xie, Roger Wattenhofer, James Zhou, Daniel Sonntag, Mathias Niepert. [ExGra-Med: Extended Context Graph Alignment for Medical Vision-Language Models](#). *Advances in Neural Information Processing Systems (NeurIPS)*, 2025.
2. **Hoang-Bao Le**, Allie Tran, Binh T. Nguyen, Liting Zhou, Cathal Gurrin. [UNION: A Lightweight Target Representation for Efficient Zero-Shot Image-Guided Retrieval with Optional Textual Queries](#). *IEEE International Conference on Data Mining (ICDM) Workshop*, 2025.
3. Luca Rossetto, Werner Bailer, Duc-Tien Dang-Nguyen, Graham Healy, Björn Þór Jónsson, Onanong Kongmeesub, **Hoang-Bao Le**, Stevan Rudinac, Klaus Schöffmann, Florian Spiess, Allie Tran, Minh-Triet Tran, Quang-Linh Tran, Cathal Gurrin. [The CASTLE 2024 Dataset: Advancing the Art of Multimodal Understanding](#). *Dataset Track, ACM Multimedia*, 2025.
4. Duy MH Nguyen, Nghiem T Diep, Trung Q Nguyen, **Hoang-Bao Le**, Tai Nguyen, Tien Nguyen, TrungTin Nguyen, Nhat Ho, Pengtao Xie, Roger Wattenhofer, Daniel Sonntag, James Zou, Mathias Niepert. [Enriched Instruction-Following Graph Alignment for Efficient Medical Vision-Language Models](#). *International Conference on Machine Learning (ICML) Workshop*, 2025.
5. Khanh Quoc Tran, An Tran-Hoai Le, An Trong Nguyen, Tung Tran Nguyen Doan, Son Huynh Thanh, **Bao Le Hoang**, Hoang Nguyen Minh, Triet Minh Thai, Hoang Le Huy, Dang T. Huynh, Binh T. Nguyen, Nhi Y. T. Ho and Trung T. Nguyen. [SEND: A Simple and Efficient Noise Detection Algorithm for Vietnamese Real Estate Posts](#). *Proceedings of the 36th Pacific Asia Conference on Language, Information and Computation*, 2022.
6. **Bao Hoang Le**, Hoang Minh Nguyen, Nhi Kieu-Phuong Nguyen, Binh T. Nguyen. [A New Approach for Vietnamese Aspect-Based Sentiment Analysis](#). *Proceedings of the 14th IEEE International Conference on KNOWLEDGE AND SYSTEMS ENGINEERING*, 2022.

RESEARCH EXPERIENCE

Department of Interactive Machine Learning, DFKI | Remote

2023.10 - 2024.08

- Research Intern.
- *Research Topic*: Vision Language Models in Medical Domain.

AISIA Research Lab | Ho Chi Minh City, Vietnam

2021.06 - 2023.08

- Research Assistant.
- *Research Topics*: Named Entity Recognition and Sentiment Analysis.

AWARDS AND HONORS	• Second Place , Grand Challenge INOVA, ICME Conference	2025
	• Second Place , Irish Collegiate Programming Contest (IrICPC)	2025
	• Runner-up Best Paper Award , KSE Conference	2022
	• 1st Runner-Up Best Paper Award in Computing , PACLIC Conference	2022
	• Odon Vallet Scholarship , for undergraduate students in Vietnam	2022
	• Best Intern Award , AISIA Research Lab	2022
PROFESSIONAL SERVICES	Reviewer 	
	• IEEE International Conference on Multimedia & Expo (ICME) 2024-2025	
	• IEEE International Conference on Advanced Visual and Signal-Based Systems (AVSS) 2025	
	• International Conference of Multimedia Modeling (MMM) 2026	
SKILLS	Languages: Vietnamese, English, French (beginner).	
	System: MacOS, Linux, Windows.	
	Programming: Python (Pytorch, Sci-kit Learn, Numpy, Matplotlib).	
	Software: L ^A T _E X, Microsoft Offices.	
REFERENCES	Cathal Gurrin. cathal.gurrin@dcu.ie (Supervisor)	
	Liting Zhou. liting.zhou@dcu.ie (Supervisor)	
	Binh T. Nguyen.: ngtbinh@hcmus.edu.vn (Advisor)	