

QUANG-HUY (PERCY) NGUYEN

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 quanghai0497

RESEARCH INTERESTS

My research focuses on developing **reliable machine learning** for real-world scientific problems, with an emphasis on **quantifying** uncertainty, **learning** from imperfect data, and **generalizing** under distribution shift.

EDUCATION

- **Ph.D. in Electrical Engineering** 2026 – 2029 (*expected*)
College of Engineering, **Boston University**
 - **Advisor:** Prof. [Wei-Lun \(Harry\) Chao](#)
- **Ph.D. Studies in Computer Science and Engineering** 2024 – 2026
College of Engineering, **The Ohio State University**
- **B.Eng. in Computer Engineering** 2015 – 2020
University of Information Technology, Vietnam National University Ho Chi Minh City

RESEARCH EXPERIENCE

- **Graduate Research Associate – CSE, The Ohio State University** Aug 2024 – Aug 2026
Advised by: Prof. [Wei-Lun \(Harry\) Chao](#) Columbus, OH
 - Trajectory forecasting and representation learning for animal behavior analysis.
 - Few-shot learning for pancreatic pre-cancer diagnosis from nCLE videos.
- **AI Research Resident – FPT Software AI Residency Program** Aug 2023 – Jul 2024
Advised by: Prof. [Dung D. Le](#) Ho Chi Minh City, Vietnam
 - Zero-shot out-of-distribution object detection with conditioned diffusion models..
- **Research Assistant – CECS, VinUniversity** Nov 2022 – Jul 2023
Advised by: Prof. Dung D. Le Ha Noi, Vietnam
 - Pareto front learning for black-box multi-objective optimization.
- **Research Assistant – VinUni-Illinois Smart Health Center, VinUniversity** Jan 2022 – Jun 2022
Advised by: Profs. Dung D. Le and Hieu H. Pham Ha Noi, Vietnam
 - Few-shot learning for medical image analysis.

PUBLICATIONS

- [1] **Quang-Huy Nguyen***, Jin Zhou*, Zhenzhen Liu*, Khanh-Huyen Bui, Kilian Q. Weinberger, Wei-Lun Chao, and Dung D. Le. [Detecting Out-of-Distribution Objects through Class-Conditioned Inpainting](#). **WACV 2026**.
- [2] Ping Zhang*, Zheda Mai*, **Quang-Huy Nguyen**, and Wei-Lun Chao. [Revisiting semi-supervised learning in the era of foundation models](#). **NeurIPS 2025**.
- [3] Zheda Mai, Ping Zhang, Cheng-Hao Tu, Hong-You Chen, **Quang-Huy Nguyen**, Li Zhang, and Wei-Lun Chao. [Lessons learned from a unifying empirical study of parameter-efficient transfer learning \(PETTL\) in visual recognition](#). **CVPR 2025 (highlight, top 2.98%)**.
- [4] Minh-Duc Nguyen, Phuong M. Dinh, **Quang-Huy Nguyen**, Long P. Hoang, and Dung D. Le. [Improving Pareto Set Learning for Expensive Multi-objective Optimization via Stein Variational Hypernetworks](#). **AAAI 2026**.
- [5] **Quang-Huy Nguyen**, Cuong Q. Nguyen, Dung D. Le, and Hieu H. Pham. [Enhancing Few-shot Image Classification with Cosine Transformer](#). **IEEE Access 2023**.

- **Machine Learning:** Learning with Limited & Imperfect Data, Uncertainty Quantification, Out-of-Distribution Detection
- **Representation Learning:** Temporal and Behavioral Representation Learning
- **Scientific Applications:** Medical Imaging, Animal Behavior Analysis
- **Technical Tools:** Python, PyTorch, Linux, SLURM/HPC, Weights & Biases