

QUANG-HUY NGUYEN

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🌐 [quanghuy0497.github.io](https://github.com/quanghuy0497)

🎓 [Google Scholar](#)

RESEARCH INTEREST

My research focuses on *meta-learning*, *domain adaptation*, and *black-box optimization* for general computer vision tasks. I aim to develop vision models that require minimal training data, reduce reliance on human supervision, and generalize effectively to unseen domains (*out-of-distribution detection*). Additionally, I am interested in exploring the intersection of *optimization* and *deep learning* to advance lifelong and open-world machine learning systems.

EDUCATION

- **Ph.D. in Computer Science and Engineering** 2024 - 2029
expected
College of Engineering, **The Ohio State University**
 - **Research areas:** out-of-distribution detection, domain adaptation, learning with imperfect data
 - **Advisor:** Prof. [Wei-Lun \(Harry\) Chao](#)
- **B.Eng. in Computer Engineering** 2015 - 2020
University of Information Technology, Vietnam National University - Ho Chi Minh city

RESEARCH EXPERIENCE

- **Graduate Research Assistant – CSE, The Ohio State University** August 2024 - Now
Columbus, Ohio, USA
Advised by: Prof. [Wei-Lun \(Harry\) Chao](#)
- **AI Research Resident - FPT Software AI Residency Program** August 2023 - July 2024
Ho Chi Minh City, Vietnam
Advised by: Prof. [Dung D. Le](#)
- **Research Assistant - CECS, VinUniversity** November 2022 - July 2023
Ha Noi, Vietnam
Advised by: Prof. [Dung D. Le](#)
- **Research Assistant - VinUni-Illinois Smart Health Center, VinUniversity** January 2022 - June 2022
Ha Noi, Vietnam
Advised by: Profs. [Dung D. Le](#) and [Hieu H. Pham](#)
- **Undergraduate Research Assistant - University of Information Technology** July 2019 - December 2021
Ho Chi Minh City, Vietnam
Advised by: Prof. [Duc-Lung Vu](#)

SELECTED PREPRINTS AND PUBLICATIONS

- [1] 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](#). In *AAAI*, 2025.
- [2] **Quang-Huy Nguyen***, Jin Zhou*, Zhenzhen Liu*, Khanh-Huyen Bui, Kilian Q. Weinberger, Wei-Lun Chao, and Dung D. Le. [Zero-Shot Object-Level Out-of-Distribution Detection with Context-Aware Inpainting](#). *under review*, 2024.
- [3] **Quang-Huy Nguyen***, Long P. Hoang*, Hoang V. Vu, and Dung D. Le. [Controllable Expensive Multi-objective Learning with Warm-starting Bayesian Optimization](#). *under review*, 2024.
- [4] **Quang-Huy Nguyen**, Cuong Q. Nguyen, Dung D. Le, and Hieu H. Pham. [Enhancing Few-shot Image Classification with Cosine Transformer](#). *IEEE Access*, 2023.

RESEARCH AND TECHNICAL SKILLS

- **Technologies:** Pytorch, OpenCV, [WandB](#), Bash Shell, Git Vim, L^AT_EX
- **Machine Learning Tools:** PyTorch, TensorFlow, Numpy, Pandas, SciPy, scikit-learn, Matplotlib, [Einops](#), [Pymoo](#)

REFERENCES

1. **Prof. Wei-Lun (Harry) Chao**, Department of Computer Science and Engineering, **The Ohio State University**, US
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2. **Prof. Dung D. Le**, College of Engineering and Computer Science, **VinUniversity**, Vietnam.
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