Lam Thai Nguyen

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RESEARCH INTERESTS

Computer Vision, Deep Learning

EDUCATION

VNU University of Engineering and Technology, Hanoi, Vietnam — 2021 – 2025
B.E., Control Engineering and Automation — CGPA: 3.48/4.00
Thesis title: Impact of oriented bounding boxes on small object detection: A study
Advisor: Tran Hiep Dinh

RESEARCH EXPERIENCE

VNU University of Engineering and Technology — Hanoi, Vietnam
Undergraduate Research Assistant — November 2023 — Present

- Participated in the *Student Scientific Research Conference 2024* at VNU–UET, earning a third prize.
- Presented a poster at the 3^{rd} *APSIPA Workshop* and video-presented at the *2024 Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)*, gaining global exposure.
- Participated in the *Student Scientific Research Conference 2025* at VNU–UET, earning a second prize.
- Presented at the *2025 24th International Symposium on Communications and Information Technologies (ISCIT)*, gaining global exposure.

PUBLICATIONS

Conference paper

- L. T. Nguyen, and T. H. Dinh,"Can oriented bounding box enhance small object detection?," *2025 24th International Symposium on Communications and Information Technologies (ISCIT)*, 2025.
- C. H. Le, L. T. Nguyen, T. K. Pham, L. K. Nguyen, T. H. Dinh, S. Jouannic, H. Adam, P. Duhammel, H. T. Minh, and N. L. Trung,"Structural Analysis of Asian and African Rice Panicles via Transfer Learning," *2024 Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)*, 2024.

AWARDS

Second Prize, Student Scientific Research Conference, VNU–UET — May 2025
Research Title: An Object Detection Approach for Structural Analysis of Rice Panicles

Merit-based Scholarship, VNU–UET — December 2024

Third Prize, Student Scientific Research Conference, VNU–UET — May 2024
Research Title: Architecture Analysis of Rice Panicle using Deep Learning

RELEVANT COURSES

- CS50: Introduction to Computer Science — Harvard University
- Deep Learning Specialization – Machine Learning Specialization — Stanford University
- Computer Vision Basics — University at Buffalo
- Introduction to Computer Vision and Image Processing — IBM

SKILLS

- **Programming:** Python
- **Framework:** PyTorch, Ultralytics
- **Software:** VSCode, Git, LaTeX

ENGLISH PROFICIENCY

IELTS (Academic): 7.0 Test Date: September 2019
Listening: 7.0 | Reading: 7.0
Speaking: 6.5 | Writing: 7.0

REFEREES

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