# 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 (LinkedIn Post).
- 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 (LinkedIn Post).

## 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

**Gương mặt trẻ tiêu biểu cấp cơ sở, VNU–UET (Outstanding Youth Award)** — October 2025
Awarded to 16 students for exceptional academic and research achievements among all students at VNU–UET.

**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

**Tran Hiep Dinh**
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