# Lam Thai Nguyen

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## RESEARCH INTERESTS

Computer Vision, Deep Learning, Object Detection

## EDUCATION

**VNU University of Engineering and Technology**, Hanoi, Vietnam — September 2021 — December 2025
B.E., Control Engineering and Automation — Cumulative GPA: 3.43/4.00
Advisor: Tran Hiep Dinh

## RESEARCH EXPERIENCE

**HRG — VNU-UET** — Hanoi, Vietnam
*Undergraduate Research Assistant* — November 2023 — Present

HRG at VNU-UET is a dedicated research group specializing in Signal Processing and Computer Vision.
Led by Tran Hiep Dinh.

- Conducted research within a sub-group for the *University Student Scientific Research Conference*, leading to a third prize at the university level.
- Presented research findings at both the department and university levels, enhancing academic speaking skills.
- Collaborated on interdisciplinary agricultural research, enhancing collaboration skills across different fields.
- Submitted a paper to the *2024 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)* and presented a poster at the $3^{rd}$ *APSIPA Workshop on Signal and Information Processing in Vietnam*, further improving presentation skills and international exposure.
- Participated in data annotation for segmentation and object detection tasks, ensuring high-quality labeled datasets for model training and evaluation.
- Wrote extensive code for model implementation, data analysis, and results extraction, validating research hypotheses and contributing to project success.
- Authored and co-authored research manuscripts, leading the writing process and ensuring well-documented findings.

## PUBLICATIONS

**Conference paper**

- C. H. Le, **L. T. Nguyen**, T. K. Pham, L. K. Nguyen, T. H. Dinh, S. Jouannic, H. Adam, P. Duhammel, N. L. Trung, and H. T. Minh, "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)*, accepted.

## SELECTED COURSES

- **Algebra** — Grade: 9.4/10.0
- **Analytics 1** — Grade: 8.8/10.0
- **Computational Methods for Engineering** — Grade: 9.3/10.0
- **Automatic Control Theory** — Grade: 9.4/10.0
- **Measurement Techniques and Sensors** — Grade: 10.0/10.0
- **Modeling and Simulation of Control System** — Grade: 10.0/10.0

## AWARDS

**Third Prize, University Student Scientific Research Conference** — Hanoi, Vietnam
Research Title: Architecture Analysis of Rice Panicle using Deep Learning — April 2024

## ENGLISH PROFICIENCY

**IELTS (Academic): 7.0** — Test Date: September 2019
Listening: 7.0 — Reading: 7.0

Speaking: 6.5 — Writing: 7.0

## CERTIFICATIONS

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

## SKILLS

- **Programming:** Python, C, MATLAB, Java, C++
- **Framework:** PyTorch, Ultralytics, TensorFlow
- **Software:** VSCode, Jupyter Notebook, Git, GitHub, Overleaf, Google Colab
- **Tool:** LaTeX, Markdown, YAML, HTML, CSS, SQLite
- **Soft Skills:** Academic Writing, Academic Speaking, Interdisciplinary Collaboration

## REFERENCES

**Prof. Tran Hiep Dinh**
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