# Lam Thai Nguyen

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## RESEARCH INTERESTS

Computer Vision, Deep Learning, Image Processing

## 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 research group specializing in Signal Processing and Computer Vision.
Led by Tran Hiep Dinh.

- Participated in 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.
- 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.
- Presented a poster at the $3^{rd}$ *APSIPA Workshop on Signal and Information Processing in Vietnam*, further improving presentation skills and international exposure.

## PUBLICATIONS

**Conference paper**

- 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)*, accepted.

## AWARDS

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

## CERTIFICATIONS

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

## SKILLS

- **Programming:** Python, C, MATLAB
- **Framework:** PyTorch, Ultralytics
- **Software:** VSCode, GitHub, Overleaf
- **Tool:** LaTeX, Markdown
- **Soft Skills:** Academic Writing, Academic Speaking, Interdisciplinary Collaboration

## ENGLISH PROFICIENCY

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

## REFERENCES

**Prof. Tran Hiep Dinh**
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