Lam Thai Nguyen

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RESEARCH INTERESTS

Computer Vision, Deep Learning, Image Processing

EDUCATION

VNU University of Engineering and Technology, Hanoi, Vietnam — 2021 – 2025
B.E., Control Engineering and Automation — CGPA: 3.43/4.00

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*, earning a third prize.
- Presented findings at department and university levels, improving academic speaking skills.
- Collaborated on interdisciplinary agricultural research, enhancing cross-field teamwork.
- Contributed to data annotation for segmentation and object detection, ensuring high-quality datasets.
- Wrote code for model implementation, data analysis, and results extraction, supporting project success.
- Authored and co-authored research papers, leading the writing process.
- Presented a poster at the 3^{rd} *APSIPA Workshop* and video-presented at the *2024 APSIPA ASC*, gaining global 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

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, C, C++
- **Framework:** PyTorch, Ultralytics
- **Software:** VSCode, GitHub, Overleaf
- **Documentation:** LaTeX, Markdown

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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