

# Lam Thai Nguyen

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## RESEARCH INTERESTS

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Computer Vision, Deep Learning, Object Detection

## EDUCATION

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<b>VNU University of Engineering and Technology</b> , Hanoi, Vietnam B.E., Control Engineering and Automation Advisor: Tran Hiep Dinh Thesis Title: Ongoing	September 2021 — December 2025 Cumulative GPA: 3.43/4.00
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## RESEARCH EXPERIENCE

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<b>HRG — VNU-UET</b> <i>Undergraduate Research Assistant</i> HRG at VNU-UET is a dedicated research group specializing in Signal Processing and Computer Vision. Led by Tran Hiep Dinh.	Hanoi, Vietnam November 2023 — Present
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- 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<sup>rd</sup> APSIPA Workshop on Signal and Information Processing in Vietnam*, further improving presentation skills and international exposure.
- 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

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- 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)*, submitted.

## SELECTED COURSES

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| • <b>Algebra</b>                                   | Grade: 9.4/10.0  |
| • <b>Analytics 1</b>                               | Grade: 8.8/10.0  |
| • <b>Computational Methods for Engineering</b>     | Grade: 9.3/10.0  |
| • <b>Automatic Control Theory</b>                  | Grade: 9.4/10.0  |
| • <b>Measurement Techniques and Sensors</b>        | Grade: 10.0/10.0 |
| • <b>Modeling and Simulation of Control System</b> | Grade: 10.0/10.0 |

## AWARDS

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<b>Third Prize, University Student Scientific Research Conference</b> Research Title: Architecture Analysis of Rice Panicle using Deep Learning	Hanoi, Vietnam April 2024
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## ENGLISH PROFICIENCY

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<b>IELTS (Academic): 7.0</b> Listening: 7.0 — Reading: 7.0 Speaking: 6.5 — Writing: 7.0	Test Date: September 2019
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## CERTIFICATIONS

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

## SKILLS

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

## REFERENCES

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### **Prof. Tran Hiep Dinh**

*Assistant Professor, Faculty of Engineering Mechanics and Automation (FEMA), VNU University of Engineering and Technology, Hanoi, Vietnam*

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### **Prof. Stefan Jouannic**

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