

Lam Thai Nguyen

Email: thainguyen2893@gmail.com
LinkedIn: www.linkedin.com/in/lam-thai-nguyen
GitHub: https://github.com/lam-thai-nguyen
Homepage: https://lam-thai-nguyen.github.io/

RESEARCH INTERESTS

Computer Vision, Deep Learning, Object Detection

EDUCATION

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

HRG — VNU-UET <i>Undergraduate Research Assistant</i>	Hanoi, Vietnam November 2023 — Present
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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 *3rd 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

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| • 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 |

AWARDS

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

IELTS (Academic): 7.0 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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| • 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
- **Framework:** PyTorch, Ultralytics, TensorFlow
- **Software:** VSCode, Jupyter Notebook, Git, GitHub, Overleaf
- **Tool:** LaTeX, Markdown, HTML, CSS, SQLite
- **Soft Skills:** Academic Writing, Academic Speaking, Interdisciplinary Collaboration

REFERENCES

Prof. Tran Hiep Dinh

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

E-mail: tranhiep.dinh@vnu.edu.vn

Scholar Profiles: Google Scholar — LinkedIn

Prof. Stefan Jouannic

DIADE, University of Montpellier, IRD, CIRAD, 34394 Montpellier, France

E-mail: stephane.jouannic@ird.fr

Scholar Profiles: Google Scholar — ResearchGate