Huyen Vo

Saarbrücken, Germany

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Education

Max Planck Institute for Software Systems (MPI-SWS) & Saarland University (UdS) 10/2024 – Present
PhD - Computer Science *Saarbrücken, Germany*

- Member of the CS@Max Planck Doctoral Program
- Advised by Prof. Isabel Valera (UdS & MPI-SWS)
- Research interests: multimodal generative modeling, multimodal representation learning, probabilistic inference, and optimization

Hanoi University of Science and Technology (HUST) 09/2019 – 09/2023
B.Sc. (Honors Program) - Computer Science *Hanoi, Vietnam*

- Excellence Degree, GPA: 3.87/4.00 (top 1% of class)
- Thesis: *Continuous Neural Ordinary Differential Equations* (Recipient of the Best Thesis Presentation Award)

Experience

FPT Software AI Center 11/2021 – 05/2024
AI Research Resident *Hanoi and Ho Chi Minh City, Vietnam*

- Conducted research on neural ODEs, graph neural networks, and optimization
- Advised by Prof. Tan Minh Nguyen (National University of Singapore) and Dr. Thieu N. Vo (University of Bath)

Data Science Laboratory 04/2021 - 11/2021
Undergraduate research student *Hanoi, Vietnam*

- Conducted research on continual learning and probabilistic inference
- Advised by Dr. Linh Ngo Van (HUST)

VinBigdata 07/2021 – 09/2021
Data Analyst Intern *Hanoi, Vietnam*

- Applied machine learning methods to analyze gene expression changes in individuals following vaccination
- Generated detailed reports to support biological data analysis
- Advised by Dr. Tham Hoang (Yale University)

Publications

Huyen Vo*, María Martínez-García, and Isabel Valera (2026). *Hölder++: Improving Quality-Coherence Trade-off in Multimodal VAEs.* International Conference on Machine Learning (ICML).

Huyen Vo* and Isabel Valera (2026). *Hellinger Multimodal Variational Autoencoders.* International Conference on Artificial Intelligence and Statistics (AISTATS). ***Spotlight presentation*** *(top 2.5% of accepted papers).* pdf

Nghia H. Nguyen*, Tan M. Nguyen*, **Huyen Vo**, Stanley J. Osher, and Thieu N. Vo (2022). *Improving Neural Ordinary Differential Equations with Nesterov's Accelerated Gradient Method.* Advances in Neural Information Processing Systems (NeurIPS). pdf

Le Minh Nguyen, Do Quoc An, Vu Quoc Viet, and **Huyen Vo** (2022). *Development of Vietnamese Text-To-Speech for VLSP Challenge 2021.* VNU Journal of Science: Computer Science and Communication Engineering. pdf

Awards and Honors

CS@Max Planck Doctoral Grant 2024
Awarded through the highly selective CS@Max Planck doctoral program, with full financial support for PhD study

Excellent Scholarship, Hanoi University of Science and Technology 2020, 2021
Merit-based scholarship awarded for academic excellence

Third Prize, Vietnam Mathematical Olympiad (VMO) 2019
Awarded in Vietnam's national mathematics competition for high school students

Achievements

Second Prize, FPT Software AI Center Hackathon 2023
Built LLM-based applications for travel planning

Second Prize, UET Hackathon 2022
Competed in the Data Science track, with a Kaggle challenge on predicting income from demographic and work-related information

First Prize, Text-to-Speech Shared Task, VLSP 2021
Ranked 1st in the Text-to-Speech Shared Task at the 8th International Workshop on Vietnamese Language and Speech Processing

Professional Services

Reviewer: NeurIPS

Teaching Assistant: Machine Learning course at Saarland University, Summer Semester 2026

Skills

Programming: Python, R, C/C++, Java

Frameworks/Libraries: PyTorch, TensorFlow, Keras, scikit-learn, SciPy, etc

Tools: Linux, Bash, Docker, Git, Weights & Biases

Languages

English (C1), German (A2), Vietnamese (native)