

# (Thien-)Trang Nguyen(-Vu)

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## EDUCATION

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### Bachelor of Data Science and Artificial Intelligence

Hanoi University of Science and Technology (HUST)

2019 - 2023

GPA: 3.89/4.0 (Overall), 3.95/4.0 (Major)

· Ranked 1st in Program.

## RESEARCH INTERESTS

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My research focuses on advancing Artificial Intelligence and Machine Learning with two primary objectives: enhancing **scalability** and **efficiency**, and ensuring **safety**, **privacy**, and **trustworthiness**. To achieve these goals, I am currently focusing on mixture of experts, backdoor attacks, and continual learning. Additionally, I have experience in optimal transport and model fusion.

## PUBLICATIONS AND SUBMISSIONS

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### Attack On Prompt: Backdoor Attack in Prompt-Based Continual Learning

Trang Nguyen, Anh Tran, Nhat Ho

*Proceedings of the AAAI Conference on Artificial Intelligence, 2025*

### Mixture of Experts Meets Prefix Tuning in Continual Learning

Minh Nguyen, Huy Nguyen\*, An Nguyen\*, **Trang Nguyen\***, Trang Pham\*, Linh Ngo Van, Nhat Ho

*Advances in Neural Information Processing Systems (NeurIPS), 2024*

### NeuroMax: Enhancing Neural Topic Modeling via Maximizing Mutual Information and Group Topic Regularization

Duy-Tung Pham\*, **Trang Nguyen\***, Tung Nguyen\*, Linh Ngo Van, Duc Anh Nguyen, Thien Huu Nguyen

*Findings of Conference on Empirical Methods in Natural Language Processing (EMNLP), 2024*

### Statistical Advantages of Perturbing Cosine Router in Sparse Mixture of Experts

Huy Nguyen, Pedram Akbarian\*, Trang Pham\*, **Trang Nguyen\***, Nhat Ho

*Under review*

### Fast Approximation of the Generalized Sliced-Wasserstein Distance

Dung Le\*, Huy Nguyen\*, Khai Nguyen\*, **Trang Nguyen\***, Nhat Ho

*IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2024*

### Continual Variational Dropout: A View of Auxiliary Local Variables in Continual Learning

Nam Le Hai\*, **Trang Nguyen\***, Linh Ngo Van, Thien Huu Nguyen, Khoat Than

*Machine Learning journal*

### On Cross-Layer Alignment for Model Fusion of Heterogeneous Neural Networks

Dang Nguyen, **Trang Nguyen**, Khai Nguyen, Dinh Phung, Hung Bui, Nhat Ho

*IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2023*

# Adaptive Prompting for Continual Relation Extraction: A Within-Task Variance Perspective

Minh Le, Tien Ngoc Luu, An Nguyen The, Thanh-Thien Le, **Trang Nguyen**, Thanh-Tung Nguyen Van, Linh Van Ngo, Thien Huu Nguyen

*Proceedings of the AAAI Conference on Artificial Intelligence, 2025*

## EXPERIENCE

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### Research Resident

Machine Learning team, VinAI

Aug 2023 - Present

- Supervisor: [Prof. Nhat Ho](#), The University of Texas at Austin.
- Main research topics: mixture of experts, backdoor attack, continual learning, optimal transport.
- 6 accepted publications at NeurIPS, EMNLP, ICASSP, AAAI, 1 submission currently under review.
- Participated in Applied Rotation Projects, including reproducing text-to-image diffusion models with customized data and quantizing these models.

### Data Scientist

Data Department, MB Bank

Mar 2023 - Aug 2023

- Worked on facial recognition project serving the employee attendance system at MB's headquarters.
- Participated in the project to analyze and build a recommendation system for mini-applications within the MB app.

### Research Student

Data Science Laboratory, Hanoi University of Science and Technology

Apr 2021 - Oct 2022

- Supervisor: [Dr. Ngo Van Linh](#), Hanoi University of Science and Technology.
- Main research topic: continual learning.
- 1 accepted publication at Machine Learning journal.

### Teaching Assistant

Hanoi University of Science and Technology

Jan 2022 - Jun 2022

- Teaching assistant for Artificial Intelligence course.

## ACHIEVEMENTS

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### Valedictorian of the Data Science and AI Program

Sep 2023

Class 2023, HUST

### Top 3% Paper Recognition

June 2023

ICASSP 2023

### Talent Scholarships for Undergraduates

Dec 2021

A-class scholarships for students with excellent academic achievements at HUST

## LANGUAGES

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### Vietnamese

Native

### English

IELTS 8.0, graduated from Foreign Language Specialized School (High School)

## PROFESSIONAL SERVICES

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Reviewer at AISTATS 2024, AISTATS 2025.

## REFERENCES

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**Prof. Nhat Ho**

Assistant Professor, The University of Texas at Austin

**Dr. Ngo Van Linh**

Lecturer, Hanoi University of Science and Technology