

# MINH LE

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## RESEARCH INTERESTS

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My research advances Artificial Intelligence and Machine Learning with the primary objectives of enhancing **scalability** and **efficiency**. To achieve these goals, I am currently focusing on parameter-efficient fine-tuning, mixture of experts, and continual learning, and I am keenly interested in exploring new ideas and interdisciplinary research.

## EDUCATION

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### Hanoi University of Science and Technology (HUST)

*Bachelor in Computer Science*

Hanoi, Vietnam

*Aug 2020 - Jul 2024*

- Graduated with Excellent Degree
- GPA: 3.81/4.00 (Top 1%)

## RESEARCH EXPERIENCE

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### AI Research Resident

VinAI Research - Qualcomm AI Research

Mar 2024 - Jun 2025

*Hanoi, Vietnam*

- Supervisor: [Prof. Nhat Ho](#), University of Texas at Austin
- Research Topic: Mixture of Experts, Parameter-Efficient Fine-Tuning
- 4 accepted publications at ICLR, AACL, ICML, 2 submissions currently under review

### Data Scientist Intern

*Viettel Data Analytics Center*

Oct 2023 - Mar 2024

*Hanoi, Vietnam*

- Research Topic: Reinforcement Learning for Recommendation Systems
- Apply reinforcement learning to address the challenge of recommending internet data bundles

### Research Student

*Data Science Laboratory (DSLAb), HUST*

Oct 2022 - Mar 2024

*Hanoi, Vietnam*

- Supervisor: [Dr. Ngo Van Linh](#), Hanoi University of Science and Technology
- Research Topic: Continual Learning
- 1 accepted publication at NeurIPS

## PUBLICATIONS

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### Mixture of Experts Meets Prompt-Based Continual Learning

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

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

### 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, Linh Ngo Van, Thien Huu Nguyen

*AAAI Conference on Artificial Intelligence (AAAI 2025) - Oral Presentation*

### Revisiting Prefix-tuning: Statistical Benefits of Reparameterization among Prompts

Minh Le\*, Chau Nguyen\*, Huy Nguyen\*, Quyen Tran, Trung Le, Nhat Ho

*International Conference on Learning Representations (ICLR 2025)*

### On Zero-Initialized Attention: Optimal Prompt and Gating Factor Estimation

Nghiem Diep\*, Huy Nguyen\*, Chau Nguyen\*, Minh Le, Duy Nguyen, Daniel Sonntag, Mathias Niepert, Nhat Ho

*International Conference on Machine Learning (ICML 2025)*

## RepLoRA: Reparameterizing Low-rank Adaptation via the Perspective of Mixture of Experts

Tuan Truong\*, Chau Nguyen\*, Huy Nguyen\*, **Minh Le**, Trung Le, Nhat Ho

*International Conference on Machine Learning (ICML 2025)*

## PREPRINTS

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### On the Expressiveness of Visual Prompt Experts

**Minh Le\***, Anh Nguyen\*, Huy Nguyen, Chau Nguyen, Nhat Ho

*Under review*

### Leveraging Hierarchical Taxonomies in Prompt-based Continual Learning

Quyen Tran, Hoang Phan\*, **Minh Le\***, Tuan Truong, Dinh Phung, Linh Ngo, Thien Nguyen, Nhat Ho, Trung Le

*Under review*

### Towards Rehearsal-Free Continual Relation Extraction: Capturing Within-Task Variance with Adaptive Prompting

Bao-Ngoc Dao\*, Quang Nguyen\*, Luyen Ngo Dinh\*, **Minh Le\***, Nam Le, Linh Ngo Van

*Under review*

## AWARDS AND ACHIEVEMENTS

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### Best Presentation Award

2024

*School of Information and Communication Technology, HUST*

Awarded for the student with out-standing thesis presentation

### Talent Scholarships for Undergraduates (3 semesters)

2020 - 2024

*Hanoi University of Science and Technology (HUST)*

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

### Finalist on SOICT Hackathon 2023

2023

*School of Information and Communication Technology, HUST*

AI Development competition for nationwide students (Track OCR)

### Vietnam Mathematical Olympiad (Second Prize)

2019

*Bac Ninh High School for Gifted Students*

Most prestigious maths competition for high school students in Vietnam (Top 11)

## ACADEMIC SERVICES

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Reviewer at ICML 2025, ACL 2025, CVPR 2025, NeurIPS 2025

## LANGUAGES

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### Vietnamese

Native or Bilingual Proficiency

### English

Full professional proficiency

## REFERENCES

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### Prof. Nhat Ho

Assistant Professor, University of Texas at Austin

### Dr. Ngo Van Linh

Lecturer, Hanoi University of Science and Technology