MINH LE

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RESEARCH INTERESTS

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

EDUCATION

Hanoi University of Science and Technology (HUST) — Hanoi, Vietnam
Bachelor in Computer Science — *Aug 2020 - Jul 2024*

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

RESEARCH EXPERIENCE

AI Engineer — Oct 2025 - Present
Trivita AI — *Hanoi, Vietnam*

- Research Topics: Reinforcement Learning, Medical AI, Large Language Models (LLMs)
- Implemented reinforcement learning frameworks for post-training a specialized medical LLM, optimizing token generation for complex diagnostic reasoning and boosting learning efficiency

AI Research Resident — Mar 2024 - Jun 2025
VinAI Research - Qualcomm AI Research — *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, AAAI, and ICML, with 2 submissions currently under review

Data Scientist Intern — Oct 2023 - Mar 2024
Viettel Data Analytics Center — *Hanoi, Vietnam*

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

Research Student — Oct 2022 - Mar 2024
Data Science Laboratory (DSLab), HUST — *Hanoi, Vietnam*

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

PUBLICATIONS

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

One-Prompt Strikes Back: Sparse Mixture of Experts for Prompt-based Continual Learning
Minh Le, Bao-Ngoc Dao, Huy Nguyen, Quyen Tran, Anh Nguyen, Nhat Ho
Under review

On the Expressiveness of Visual Prompt Experts
Minh Le*, Anh Nguyen*, Huy Nguyen, Chau Nguyen, Anh Tran, 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

Best Presentation Award 2024
School of Information and Communication Technology, HUST
Awarded for the students with outstanding 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 in 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
The most prestigious math competition for high school students in Vietnam (Top 11)

ACADEMIC SERVICES

Reviewer at ICML 2025, NeurIPS 2025, and ICLR 2026.

LANGUAGES

Vietnamese: Native

English: Full professional proficiency, IELTS 8.0

REFERENCES

Prof. Nhat Ho
Assistant Professor, University of Texas at Austin

Dr. Ngo Van Linh
Lecturer, Hanoi University of Science and Technology