

LE DINH TRI TUE

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RESEARCH INTERESTS

My research focuses on reasoning and alignment in large language models, with a particular interest in post-training and reinforcement learning. I study how to improve the generalization, reliability, and controllability of reasoning models. I am highly curious and open to exploring new research directions.

EDUCATION

Hanoi University of Science and Technology

Sep 2021 – Jul 2025

B.S. in Computer Science (Talented Program) — GPA: 3.4/4.0

Hanoi, Vietnam

Ha Tinh High School for Gifted Students

Aug 2018 – Jun 2021

Mathematics Honors Class — Grade: 9.4/10

Ha Tinh, Vietnam

PUBLICATIONS

- [1] SWE-EVO: Benchmarking Coding Agents in Long-Horizon Software Evolution Scenarios
Tue Le^{*}, Minh Vu Thai Pham^{*}, Dung Nguyen Manh, Huy Nhat Phan, Nghi D. Q. Bui
Under review
- [2] A Multi-Objective Surrogate Framework for Training Neural Topic Models
Chi Pham Khanh^{*}, Tue Le^{*}, Anh-Cuong Le, Linh Ngo Van
Neurocomputing (Q1)
- [3] MCW-KD: Multi-Cost Wasserstein Knowledge Distillation for Large Language Models
Hoang Tran Vuong, Tue Le, Quyen Tran, Linh Ngo Van, Trung Le
AAAI 2026 (rank A^{})*
- [4] Token-Level Self-Play with Importance-Aware Guidance for Large Language Models
Tue Le, Hoang Tran, Quyen Tran, Linh Ngo, Mehrtash Harandi, Trung Le
NeurIPS 2025 (rank A^{})*
- [5] Multi-Surrogate-Objective Optimization for Neural Topic Models
Tue Le^{*}, Hoang Tran Vuong^{*}, Tung Nguyen, Linh Ngo Van, Sang Dinh, Trung Le, Thien Huu Nguyen
EMNLP 2025 (Findings) (rank A^{})*
- [6] HiCOT: Improving Neural Topic Models via Optimal Transport and Contrastive Learning
Hoang Tran Vuong^{*}, Tue Le^{*}, Tu Vu^{*}, Tung Nguyen^{*}, Linh Van Ngo, Sang Dinh, Thien Huu Nguyen
ACL 2025 (Findings) (rank A^{})*
- [7] Sharpness-Aware Minimization for Topic Models with High-Quality Document Representations
Tung Nguyen^{*}, Tue Le^{*}, Hoang Tran Vuong^{*}, Quang Duc Nguyen, Duc Anh Nguyen, Linh Van Ngo, Sang Dinh, Thien Huu Nguyen
NAACL 2025 (rank A)

RESEARCH EXPERIENCE

Research Collaborator

Jan 2026 – Present

Mila - Quebec AI Institute

Remote

- **Topics:** Secure code generation, coding agents, post-training for LLMs.
- Develop training and inference methods to improve the security, safety, and reliability of coding agents.

AI Resident

May 2025 – Present

Fsoft AI Center

Hanoi, Vietnam

- **Topics:** AI for software engineering, coding agents, post-training for LLMs.
- Develop training and evaluation pipelines to improve reliability and generalization on reasoning and coding tasks.

AI Engineer

Jul 2024 – May 2025

VinBigdata Institute

Hanoi, Vietnam

- **Topics:** Multimodal LLMs, audio–text alignment, post-training for LLMs.
- Build and train multimodal models with a focus on speech–language understanding and generation.

Research Student

Oct 2023 – Sep 2025

Data Science Laboratory, BKAI – HUST

Hanoi, Vietnam

- **Topics:** Optimization algorithms for neural networks, multi-objective optimization, sharpness-aware minimization.
- Design and evaluate optimization algorithms to improve training stability and generalization across tasks.

Research Student

Feb 2023 – Jan 2024

MSO (Modeling, Simulation and Optimization) Laboratory, BKAI – HUST

Hanoi, Vietnam

- **Topics:** Evolutionary algorithms, vehicle routing problems (VRP), combinatorial optimization.
- Develop metaheuristic algorithms for VRP variants.

HONORS AND AWARDS

- **Vietnam Mathematics Team.** Selected as one of the top 50 mathematics students in the nation through the Vietnam Mathematical Olympiad, and competed for a place on the national team for the International Mathematical Olympiad (IMO).
- **Vietnam Mathematical Olympiad (VMO).** Second Prize, 2021; Third Prize, 2020.
- **Odon Vallet Scholarship, 2020.** Awarded by the Odon Vallet Scholarship Fund to the best students of the year.

ACTIVITIES

- SOICT Hackathon 2024 — Legal Document Retrieval (NAVER) track.
- IAI Hackathon 2024 — Intelligence DECODE-A-THON.
- SOICT Hackathon 2023 — Routing Optimization (Samsung–Tiki) track.