

ANH NGUYEN HOANG

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[Email](#) ◊ [Homepage](#) ◊ [GitHub](#)

RESEARCH INTERESTS

My research focuses on developing algorithms to train and fine-tune Large Language Models for code and designing agentic systems for Software Engineering tasks. I am passionate about bridging the gap between artificial intelligence and software development to create more efficient and intelligent development tools.

EDUCATION

Hanoi University of Science and Technology

2020 – 2024

Bachelor of Science in Computer Science

GPA: 3.75/4.0

Rank: 15/296 (Top 5%)

PUBLICATIONS

(* denotes equal contribution)

- [1] **CodeWiki: Evaluating AI's Ability to Generate Holistic Documentation for Large-Scale Codebases** [\[Paper\]](#)
Anh Nguyen Hoang, Minh Le-Anh, Bach Le, Nghi D. Q. Bui
Findings of ACL 2026
- [2] **Mutual-Pairing Data Augmentation for Few-Shot Continual Relation Extraction** [\[Paper\]](#)
Nguyen Hoang Anh, Quyen Tran*, Thanh Xuan Nguyen*, Nguyen Thi Ngoc Diep, Linh Ngo Van, Thien Huu Nguyen, Trung Le*
NAACL 2025 (Annual Conference of the North American Chapter of the ACL)
- [3] **Preserving Generalization of Language Models in Few-Shot Continual Relation Extraction** [\[Paper\]](#)
Quyen Tran, Nguyen Xuan Thanh*, **Nguyen Hoang Anh***, Nam Le Hai, Trung Le, Linh Van Ngo, Thien Huu Nguyen*
EMNLP 2024 (Conference on Empirical Methods in Natural Language Processing)

PREPRINTS

- [1] **RustPrint: Documentation-Guided Agentic Codebase Migration from C to Rust** [\[Preprint\]](#)
*Minh Le-Anh, **Anh Nguyen Hoang**, Bach Le, Nghi D. Q. Bui*
Preprint, 2026

AWARDS

First Prize (Champion), AI For Real Action 2025

January 2026

Vietnam's first national AI competition.

- Member of Team Converged, winning among nearly 400 competing teams nationwide
- Developed an AI solution for STEM educational material development

EXPERIENCE

FPT Software AI Center

May 2025 – Present

AI Research Resident

Hanoi, Vietnam

Advisor: Prof. Bach Le (University of Melbourne); Dr. Nghi D. Q. Bui

- Developed CodeWiki, an automated repository-level documentation generation framework leveraging large language models to create comprehensive documentation for software projects

- Conducting research on code translation and automated program repair

Oraichain Labs
AI Engineer

May 2024 – April 2025
Hanoi, Vietnam

- Led development of Cupiee Emotional AI Companion platform, serving 300,000+ users with approximately 100,000 daily message requests
- Architected autonomous multi-agent systems for social media engagement and market analysis
- Gained extensive experience in deploying and scaling LLM-based agentic systems in production

RESEARCH PROJECTS

CGSA: Coverage-Guided Agentic Static Analysis 2026 – Present
Collaborator; project led by Prof. Lingming Zhang's group (University of Illinois Urbana-Champaign)

- Contributing to a two-stage agentic framework for LLM-based vulnerability detection in code changes that decomposes the problem into a *coverage agent* (security-relevant coverage map) and a *scanning agent* (systematic review of flagged functions)

MCPGuard: Fine-Tuning for Secure Coding Agents under MCP Tool Poisoning 2026 – Present
Collaborator; project led by researchers at Mila – Quebec AI Institute

- Contributing to a two-stage fine-tuning approach (SFT followed by RL with REINFORCE Leave-One-Out) that hardens coding agents against Model Context Protocol (MCP) tool-poisoning attacks
- Assisting with constructing adaptive poisoned SWE-Bench trajectories and reward design for safety (no security violation) and task completion (unit tests pass)

LANGUAGES

Vietnamese Native
English Professional working proficiency

REFERENCES

- [Associate Prof. Bach Le](#)
University of Melbourne, Australia
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- [Dr. Nghi D. Q. Bui](#)
Google Research Scientist
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- [Dr. Linh Ngo Van](#)
Hanoi University of Science and Technology, Vietnam
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