

ANH HO

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Education

The University of Melbourne - Australia

8/2024 - now

- Doctor of Philosophy - Engineering and IT
- Research Topic: Automated Bug Fixing Using Program Analysis and AI
- Supervisors: *Dr. Bach Le* and *Dr. Christine Rizkallah*

Hanoi University of Science and Technology - Vietnam

8/2019 - 9/2023

- *BSc. Computer Science*
- Thesis title: *Deep learning for automated detection of code smells (Grade: 9.5/10 - A⁺ equivalent)*
- Selected for *Talented Program* in Computer Science (*Selected 35 out of 1000 in our cohorts*)

Vo Nguyen Giap High School for the Gifted - Quang Binh, Vietnam

9/2016 - 6/2019

- Specialized Class in Mathematics.
- Awarded *Second Prizes* in Mathematics of the National Excellent Student Competition 2019, also known as Vietnam Mathematical Olympiad (VMO 2019).

Publications

Note: My name is bolded in the list of authors.

Conference Papers

ICSME
Under Working
[CORE A]

Regress No More? An Empirical Study of Automated Program Repair on Scalable Benchmark of Regression Errors by **Anh Ho**, Thanh Le-Cong, Bach Le, Christine Rizkallah, in preparation for the International Conference on Software Maintenance and Evolution, 2025.

EASE'23
DOI
[CORE A]

Fusion of deep convolutional and LSTM recurrent neural networks for automated detection of code smells by **Anh Ho**, Anh M. T. Bui, Phuong T. Nguyen, Amleto Di Salle in Proceedings of the 27th International Conference on Evaluation and Assessment in Software Engineering, 2023, pp. 229–234.

SOICT'22
DOI

Combining Deep Learning and Kernel PCA for Software Defect Prediction by **Anh Ho**, Nguyen Nhat Hai, Bui Thi Mai Anh in Proceedings of the 11th International Symposium on Information and Communication Technology, 2022, pp. 360–367.

Journal Papers

JSS
Under Review
[Scimago Q1]

EnseSmells: Deep ensemble and programming language models for automated code smells detection by **Anh Ho**, Anh M. T. Bui, Phuong T. Nguyen, Amleto Di Salle, Bach Le. Under Review at Journal of Systems & Software.

Research Experience

Intelligent Software Engineering Laboratory - RISE, BK-AI, HUST

10/2021 - 12/2023

Research Assistant

- Research Topic: *Software Defect Prediction* and *Code Smell Detection*.
- Supervisor: *Dr. Mai-Anh Bui (Research leader of the group RISE)*.
- Collaborating with *Dr. Thanh-Phuong Nguyen (The University of L'Aquila, Italy)*, who has been my co-supervisor since October 2022.

Software Engineering Research Group, The University of Melbourne

5/2023 - 12/2023

Research Intern

- Research Topic: *Automated Software Program Repair*.
- Supervisor: *Dr. Bach Le*

Honors and Awards

- Top 6 in Zalo AI Challenge 2022** 2022
- Top 6 private test in Zalo AI Challenge - Task: *Lyrics Alignment*
 - Leaderboard: <https://challenge.zalo.ai/portal/lyric-alignment/final-leaderboard>.
 - An annual competition hosted by Zalo, a subsidiary of VNG Corporation, one of the largest tech companies in Vietnam.
- Talent Scholarship for the academic year 2019 - 2020** 2019
- Hanoi University of Science and Technology.
 - Top 5% of students in the Faculty of Computer Science
- Second Prizes in Mathematics of the National Excellent Student Competition** 2019
- Vietnam Ministry of Education and Training.
 - The top 40 candidates have been selected to participate in the Vietnam Team Selection Test 2019 (VN TST 2019), with the aim of choosing the top 6 students to represent the national team at the International Mathematical Olympiad 2019 (IMO 2019).
- Odon Vallet Scholarship** 2018
- The scholarship is supported by *Prof. Odon Vallet* and the *Vietnam Education & Science Foundation (Rencontres du Vietnam)*.
- Mathematics and Youth Magazine** 2018, 2019
- *Special Prize (2018)* and *Second Prize (2019)*.
 - One of Vietnam's top two magazines for mathematics enthusiasts, alongside PI Magazine.

Extracurricular Activities

- Teaching Assistant - AI Fresher Training Program at VinBigdata** 9/2023 - 10/2023
- Contributed as a Teaching Assistant for Natural Language Processing (NLP) course in the prestigious program of VinBigdata, a renowned program for AI Fresher in Vietnam.
- Summer School on Modern Machine Learning: Foundations and Applications** 9/2023
- Hosted by SOICT - HUST and co-sponsored by VinBigdata - Vietnam and NAVER Group - Korea.
 - Acceptance rate: 22.1%.
- Personal Certificate of Merit** 2020, 2021, 2022
- Awarded by President of Hanoi University of Science and Technology.
 - Acknowledged for achieving excellent academic results and actively contributing to the university's youth organization
- Personal Certificate of University's Youth Union** 2020, 2021, 2022
- Worked as Committee Member at Youth Union of School of Information and Communication Technology (SoICT).
 - Worked as Committee Member at Organizing and Inspection Team in Youth Union of Hanoi University of Science and Technology (HUST).
- "Student with 5 Good Criteria" - HUST** 2021
- Awarded by President of Vietnam Union of Students in HUST.
 - "Student with 5 Good Criteria" Movement - Good: Morality - Studying - Physical training - Volunteering - Integration