

# ANH HO

☎ (+61) 468-476-897 | ✉ anhho.work@gmail.com | 🏠 Anh Ho | 🌐 <https://brojackvn.github.io/> | 🐙 brojackvn

## 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<sup>+</sup> 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'25**  
[DOI]  
[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. Journal of Systems & Software, 2025.

## 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

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- 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

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- 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