

# Thi Linh HOANG

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## Education

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- Master Degree of Computer Science** Dec 2021–Aug 2023  
*University of Engineering and Technology, VNU Hanoi,*
- GPA: 3.47/4.00
  - Thesis title: Adaptive Sampling towards Efficient Representation Learning with Graph Transformer in Dynamic Graphs
- Bachelor Degree of Information Technology** Aug 2017–Aug 2021  
*University of Engineering and Technology, VNU Hanoi,*
- GPA: 3.66/4.00
  - Ranking: 7/442 of major
  - Thesis title: Improving Graph Convolutional Networks with Transformer Layer in social recommendation

## Awards & Distinctions

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- Scholarship for Domestic Master/PhD Excellent Student** Dec 2022  
*Vingroup Innovation Foundation (VINIF)*
- The postgraduate students in Vietnam have had excellent achievements in studying and research are awarded.
- Excellent Thesis Defense** Jul 2021  
*Faculty of Information Technology University of Engineering and Technology, VNU*
- The best student of each thesis examination committee is awarded.
- Excellent Student in class of 2017-2021** Jul 2021  
*University of Engineering and Technology, VNU*
- The Semester Encouragement Scholarship (Dean's List)** 2017-2020  
*University of Engineering and Technology, VNU*
- Each semester top 8% of students of major with the greatest academic performance are awarded.

## Work Experience

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- Research Engineer** Dec 2023–  
*Functional Algorithms for Networks and Graphs Lab, Singapore Management University (Singapore),*
- Supervisor: Prof. Yuan FANG
  - Mentor: Dr. Yuxia WU
  - Research topic: Dynamic Graph Learning.
- Research Assistant** Jan 2021–Nov 2023  
*Human-Machine Interaction Lab, University of Engineering and Technology, VNU Hanoi (Vietnam)*
- Supervisor: Dr. Viet Cuong Ta
  - Research topic: Graph Representation Learning, Dynamic Graph, Machine Learning.
- Research Fellow** May 2022–Mar 2023  
*Fatima Fellowship Program (Remote)*
- Mentor: Muhammed Fatih Balin
  - Research topic: Sampling for training Graph Neural Networks.

## Teaching Experience

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- Teaching Assistant** Jan 2021–Nov 2023  
*University of Engineering and Technology, VNU Hanoi*
- Prepare lab, help office hours, grade assignments, and prepare exams for undergraduate courses:
  - List of courses: Artificial Intelligence, Machine Learning, Computer Networking, Data Structure and Algorithm, and Introduction to Programming.

## Review activities

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**Reviewer for academic journal:** IEEE Transactions on Neural Networks and Learning Systems (TNNLS) Special Issue on "Graph Learning" 2023.

## Technical Skills

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### Hard Skills

- **Programming Languages:** Python, C/C++, Golang, Java, JavaScript.
- **ML Frameworks:** PyTorch, TensorFlow, DGL.
- **Mathematics:** Linear Algebra, Probability, Statistic, Calculus, Numerical Method
- **Others:** Git, Docker, Latex.

### Soft Skills

- Good communication and teamwork skills
- Intellectual curiosity to explore the unknown

## Publications

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### Journals:

- **T. L. Hoang** and V. C. Ta, "Balancing Structure and Position Information in Graph Transformer Network with a Learnable Node Embedding" accepted to Expert Systems With Applications, October 2023.
- V. C. Ta, **T. L. Hoang**, N. S. Doan, V. T. Nguyen, D. N. Nguyen, T. T. T Pham and N. N. Dang, "Tabnet efficiency for facies classification and learning feature embedding from well log data", in *Petroleum Science and Technology*, June 2023.

### Conferences:

- **T. L. Hoang** and V. C. Ta, "Dynamic-GTN: Learning an Node Efficient Embedding in Dynamic Graph with Transformer", Proceeding of the 19th Pacific Rim International Conference on Artificial Intelligence (PRICAI), Shanghai, China, November, 2022, (*presented at the best-paper session*).
- **T. L. Hoang** and V. C. Ta, "Effect of Cluster-based Sampling on the Over-smoothing Issue in Graph Neural Network", in Proceeding of the 14th International Conference on Knowledge and Systems Engineering (KSE), Nha Trang, Vietnam, October 2022.
- **T. L. Hoang**, T. D. Pham and V. C. Ta, "Improving Graph Convolutional Networks with Transformer Layer in social-based items recommendation", in Proceeding of the 13th International Conference on Knowledge and Systems Engineering (KSE), Bangkok, Thailand, October 2021.