

LE NHUT NAM

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CURRENT EMPLOYMENT

Teaching Assistant

10/2024 - Present

Department of Computer Science, Faculty of Information Technology

University of Science, Vietnam National University - Ho Chi Minh City

EDUCATION

M.S. in Applied Mathematics

12/2023 – 12/2025

Faculty of Mathematics and Computer Science, University of Science, VNU-HCM

· Thesis: *Qualitative Properties of k -Center Problems*

· Advisor: Assoc Prof. Dr. Vo Si Trong Long

· GPA: 8.5; Thesis Defense: 9.72

M.S. in Computer Science

12/2022 – 12/2024

Faculty of Information Technology, University of Science, VNU-HCM

· Thesis: *Temporal Knowledge Graph Reasoning based on Reinforcement Learning*

· Advisors: Prof. Dr. Le Hoai Bac, Dr. Vu Thanh Hung

· GPA: 8.84; Thesis Defense: 9.8

B.S. in Computer Science

09/2018 – 09/2022

Faculty of Information Technology, University of Science, VNU-HCM

· Thesis: *Knowledge Graph Completion based on Convolutional Neural Networks*

· Advisor: Dr. Le Ngoc Thanh

· GPA: 8.33; Thesis Defense: 10.0

RESEARCH INTERESTS

Partial Differential Equations, Mathematical Programming, Continuous Optimization.

PUBLICATIONS

Research Outcomes: B.S and M.S. in Computer Science (2022–2024)

Peer-Reviewed Journal Articles

[1] Le, T., **Le, N.**, & Le, B. (2023). Knowledge graph embedding by relational rotation and complex convolution for link prediction. *Expert Systems with Applications*, 214, 119122. Elsevier.

Conference Proceedings

[4] Luu, T., **Le, N.**, Le, D., & Le, B. (2025). From Visual Explanations to Counterfactual Explanations with Latent Diffusion. In *2025 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)* (pp. 420–429). IEEE.

[3] **Le, N.**, Le, T., & Le, B. (2025). Improving Temporal Knowledge Graph Forecasting via Multi-rewards Mechanism and Confidence-Guided Tensor Decomposition Reinforcement Learning. In *17th International Conference on Agents and Artificial Intelligence (ICAART)*.

[2] **Le, N.**, Le, T., & Le, B. (2025). Improving Temporal Knowledge Graph Completion via Tensor Decomposition with Relation-Time Context and Multi-time Perspective. In *17th International Conference on Agents and Artificial Intelligence (ICAART)*.

[1] Le, T., **Le, N.**, & Le, B. (2022). Embedding Model with Attention over Convolution Kernels and Dynamic Mapping Matrix for Link Prediction. In *Asian Conference on Intelligent Information and Database Systems (ACIIDS)* (pp. 234–246). Springer.

PROFESSIONAL EXPERIENCE

AI Developer

Mar 2023 – Dec 2023

DIGIME PTE. LTD, Ho Chi Minh City

Developed ML models for data preprocessing and model construction. Specialized in object detection for GoPro device video data using YOLO models. Maintained workflows on Linux server environments. Implemented end-to-end machine learning pipelines for video analysis and processing.

RESEARCH EXPERIENCE

Graduate Research Student

Dec 2023 – Dec 2025

Faculty of Mathematics and Computer Science, University of Science, VNU-HCM

Conducting research on the existence of solutions for unconstrained non-smooth non-convex optimization problems under the supervision of Assoc. Prof. Dr. Vo Si Trong Long. In detail, the study focuses on the generalized versions of the k -center problem, which involves finding k circles of the smallest possible equal radius that cover a finite set of points in the plane.

Graduate Research Assistant

Dec 2022 – Dec 2024

Faculty of Information Technology, University of Science, VNU-HCM

Conducting research on Knowledge Graph Embedding and Temporal Knowledge Graphs under Prof. Dr. Le Hoai

Bac. Published 5 papers in international conferences and journals including Expert Systems with Applications (Q1, IF: 8.6) and IEEE WACV (CORE Rank A). Research focuses on graph analytics, tensor decomposition, and reinforcement learning for knowledge graph completion.

Undergraduate Research Assistant

Sep 2020 – Sep 2022

Faculty of Information Technology, University of Science, VNU-HCM

Conducted research on graph mining and machine learning under Dr. Le Ngoc Thanh. Developed novel approaches for link prediction in knowledge graphs using relational rotation and complex convolution methods.

TEACHING EXPERIENCE

Teaching Assistant

Oct 2024 – Present

Faculty of Information Technology, University of Science, VNU-HCM

Laboratory instruction and teaching assistance for undergraduate Computer Science courses including Data Visualization, Introduction to AI, and Graph Mining. Providing weekly academic support to undergraduate students. Developed course materials and practical exercises.

TA Courses Taught:

Graduate Courses

- MTH084 – Machine Learning with Graphs

Undergraduate Courses

- CSC14115 – Applied in Data Science
- CSC14101 – Data Hiding and Secret Sharing
- CSC10004 – Data Structures and Algorithms
- CSC14004 – Data Mining and Applications
- CSC10108 – Data Visualization
- CSC14003 – Fundamental of Artificial Intelligence
- CSC10012 – Fundamental of Programming
- CSC14119 – Introduction to Data Science
- CSC14005 – Introduction to Machine Learning
- CSC14118 – Introduction to Big Data
- CSC00004 – Introduction to Information Technology
- CSC17103 – Graph Mining
- CSC14120 – Parallel Programming
- CSC17104 – Programming for Data Science
- CSC18103 – Swarm Intelligence
- CSC18104 – Introduction to Multi-Agent

· MTH00050 – Mathematical Combinatorics

Teaching Assistant

Oct 2024 – Apr 2025

CODERSCHOOL LTD, Ho Chi Minh City

Teaching assistance for Data Science and AI courses. Supporting learners with final project development and implementation. Mentoring students in machine learning project design and execution.

Visiting Lecturer

Sep 2022 – Sep 2024

Faculty of Information Technology, University of Science, VNU-HCM

Laboratory instruction for multiple undergraduate courses: Introduction to Machine Learning, Introduction to AI, Parallel Programming, Graph Mining, Data Mining and Applications, and Applied Data Science. Mentored undergraduate thesis students for 2019AY, 2020AY, and 2021AY.

HONORS & AWARDS

2022 – 2024

Graduate Scholarship for Master Course in Computer Science

University of Science, VNU-HCM

Awarded a competitive graduate scholarship based on outstanding academic performance and research potential throughout the Master’s program in Computer Science.

12/2022

Excellence in Thesis Research Award for Undergraduate Students

University of Science, VNU-HCM

Awarded for exceptional quality of undergraduate thesis research, evaluated by the faculty committee as outstanding in originality, technical depth, and research contribution.

12/2022

Excellence in Computer Science

University of Science, VNU-HCM

Graduated with a Bachelor’s degree in Computer Science with Very Good academic performance, ranking among the top students of the cohort.

05/2018

High School Graduation with Very Good Performance

Hoang Le Kha High School For The Gifted

Graduated with Very Good academic distinction from a specialized high school for gifted students, demonstrating strong performance in mathematics and science.

SKILLS

Languages: English (Intermediate), Vietnamese (Native), Russian (Beginner)

Programming: Python, C++, LaTeX, Julia, CUDA, R

Framework: PyTorch, Tensorflow, Flux

Mathematical Programming Tooling: MATLAB, Maple, Gurobi Optimizer

REFERENCES

Prof. Dr. Le Hoai Bac

Faculty of Information Technology, University of Science, VNU-HCM

Email: lhbac@fit.hcmus.edu.vn

SERVICES

Journal Reviewer:

1. Computer Science Review
2. Engineering Applications of Artificial Intelligence
3. Expert Systems with Applications
4. Knowledge-Based Systems