

# LE NHUT NAM

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## EDUCATION

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- 12/2023 – 12/2025      **M.S. in Applied Mathematics**  
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  
· Coursework: Convex Analysis, Non-linear Programming, Multi-Objectives Programming, Optimization Algorithms, Mathematical Modeling in Economics, Stochastic Processes, Statistical Modeling, Differential Equations, Partial Differential Equations, Numerical Analysis, Complex Analysis, Convex Analysis and Optimization, Functional Analysis
- 12/2022 – 12/2024      **M.S. in Computer Science**  
Faculty of Information Technology · University of Science, VNU-HCM  
· Thesis: *Temporal Knowledge Graph Reasoning based on Reinforcement Learning*  
· Advisor: Prof. Dr. Le Hoai Bac, Dr. Vu Thanh Hung  
· Coursework: Data Mining, Machine Learning, Deep Learning, Computer Vision, Digital Image Processing, Mathematical methods for Computer Science, Mathematical methods for AI, Data Analysis
- 09/2018 – 09/2022      **B.S. in Computer Science**  
Faculty of Information Technology · University of Science, VNU-HCM

## RESEARCH INTERESTS

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Partial Differential Equations, Mathematical Programming, Continuous Optimization.

## PUBLICATIONS

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### 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

1. 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.
2. **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)*.
3. **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)*.
4. 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.

## HONORS & AWARDS

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2023 – 2025	<b>Graduate Scholarship for Master Course in Applied Mathematics</b> University of Science, VNU-HCM
2022 – 2024	<b>Graduate Scholarship for Master Course in Computer Science</b> University of Science, VNU-HCM
12/2022	<b>Excellence in Thesis Research Award for Undergraduate Students</b> University of Science, VNU-HCM
12/2022	<b>Excellence in Computer Science</b> (Bachelor's Degree with Very Good Performance) University of Science, VNU-HCM
05/2018	<b>High School Graduation with Very Good Performance</b> Hoang Le Kha High School For The Gifted

## TEACHING EXPERIENCE

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University of Science, VNU-HCM

2022 – Present

### Teaching Assistant for Graduate Courses

- MTH084 – Machine Learning with Graphs

### Teaching Assistant for 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
- CSC10012 – Introduction to 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

## SKILLS

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**Languages:** English (Intermediate), Vietnamese (Native), Russia (Beginner)

**Programming:** Python, MATLAB, C++, LaTeX, PyTorch

## REFERENCES

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**Assoc Prof. Dr. Vo Si Trong Long**

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