

# LE THANH THIEN

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## EDUCATION

Hanoi University of Science and Technology, Hanoi

Aug 2019 – Aug 2023

Bachelor of Science in Computer Science, Distinction equivalent

- **Thesis** *Parameter-efficient Continual Relation Extraction*: combine generative replay with a novel multi-objective optimization method for competitive Continual Relation Extraction (**GPA 4.0**)
- **Achievements** Talent Scholarship 2019 (merit-based, value of 1,300 USD)
- **Modules** Artificial Intelligence (**GPA 4.0**), Computer Architecture (**GPA 4.0**), Data Science (**GPA 4.0**), Evolutionary Computing (**GPA 4.0**), Information Retrieval (**GPA 4.0**), Linear Algebra (**GPA 4.0**), Machine Learning and Data Mining (**GPA 4.0**), Programming Techniques (**GPA 4.0**)
- **Projects**
  - Volatility Prediction for Vietnam Stock Market* [↗](#): benchmark ARCH, GARCH, SVM, and Multi-Layer Perceptron on VNINDEX and VN30INDEX
  - Data Platform for Financial Market* [↗](#): build big data pipeline for the financial market
  - Bird Classification*: train ResNet models, resulting in accuracy of over 90%
  - Image Captioning* [↗](#): build and train Show, Attend and Tell model using CNNs and LSTMs

VNU.HCM High School for the Gifted, Ho Chi Minh City

Aug 2016 – May 2019

High School Diploma (**GPA 9.7**)

- **Achievements** Odon Vallet Scholarship 2019, value of 430 USD, from Rencontres Du Vietnam [↗](#)

## EXPERIENCE

VinAI, Hanoi | AI Research Resident

Feb 2023 – Present

Top 20 global company for leading AI research in 2022

- Research cross-lingual information extraction
- Conduct studies on continual learning in information extraction, resulting in 3 papers
- Research problems related to Large Language Models, resulting in 1 paper
- Collect and preprocess data to train chat Large Language Model for Vietnamese language
- Trained and benchmarked Automatic Speech Recognition models on public/private data for Vietnamese language

VND Credit, Hanoi | AI Engineer

Jul 2022 – Feb 2023

P2P lending platform

- Wrote, trained, and deployed API for a job-matching model as part of a job recommendation system
- Gathered and standardized data on job opportunities for training AI models extracting useful information from job description, achieving precision and recall of over 90%
- Collaborated with 6 engineers and 3 interns to build graph neural networks for credit scoring from mobile-usage data

HUST Data Science Lab (BKAI), Hanoi | Research Student

Apr 2021 – Aug 2023

Affiliated with NAVER – most-used search portal in South Korea

- Researched deep generative models (e.g. GANs, Diffusion Models) and theoretical generalization for deep neural networks, led by Assoc. Prof. Than Quang Khoat
- Conducted project “Deep learning for imbalanced data”, designing architectures and training paradigms for deep neural networks to enhance performances on skewed and long-tailed data

## PUBLICATIONS

Asterisk (\*) denotes equal contribution

**Continual Relation Extraction via Sequential Multi-Task Learning**

Thanh-Thien Le\*, Manh Nguyen\*, Tung Thanh Nguyen\*, Linh Van Ngo and Thien Huu Nguyen, AAAI 2024

**SharpSeq: Empowering Continual Event Detection through Sharpness-Aware Sequential-task Learning**

Thanh-Thien Le\*, Viet Dao\*, Linh Van Nguyen\*, Thi-Nhung Nguyen, Linh Van Ngo and Thien Huu Nguyen, NAACL 2024

**Realistic Evaluation of Toxicity in Large Language Models**

Tinh Son Luong\*, Thanh-Thien Le\*, Linh Van Ngo and Thien Huu Nguyen, ACL 2024

**PhoWhisper: Automatic Speech Recognition for Vietnamese**

Thanh-Thien Le, Linh The Nguyen, Dat Quoc Nguyen, Tiny Paper @ ICLR 2024

**ToVo: Toxicity Taxonomy via Voting**  
Tinh Son Luong\*, Thanh-Thien Le\*, Thang Viet Doan\*, Linh Ngo Van, Thien Huu Nguyen and Diep Thi-Ngoc Nguyen, *under review*

**Lifelong Event Detection via Optimal Transport**  
Viet Dao\*, Van-Cuong Pham\*, Quyen Tran\*, Thanh-Thien Le, Linh Ngo Van, Thien Huu, *EMNLP 2024*

**Few-Shot, No Problem: Descriptive Continual Relation Extraction**  
Thanh Nguyen\*, Anh Duc Le\*, Quyen Tran\*, Thanh-Thien Le\*, Linh Ngo Van, Thien Huu, *under review*

**Adaptive Prompting for Continual Relation Extraction: A Within-Task Variance Perspective**  
Minh Le, Tien Ngoc Luu, An Nguyen The, Thanh-Thien Le, Thien Trang Nguyen Vu, Tung Thanh Nguyen, Linh Van Ngo and Thien Huu Nguyen, *under review*

ACHIEVEMENTS

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| <b>Physics Unlimited Explorer Competition (PUEC)   Honorable Mention</b><br><i>International Physics competition originated from Princeton University</i> <ul style="list-style-type: none"><li>Track: Statistical Mechanics</li></ul>                               | 2018 |
| <b>Vietnam Physics Olympiad (VPhO)   Second Prize</b><br><i>Most prestigious Physics competition for high school students in Vietnam.</i> <ul style="list-style-type: none"><li>Top &lt; 0.05% of nationwide high-school students in 2018-2019 school year</li></ul> | 2019 |
| <b>SOICT Hackathon 2023   Finalist</b><br><i>AI Development competition for nationwide students</i> <ul style="list-style-type: none"><li>Track: Spoken Language Understanding</li></ul>   | 2023 |

SKILLS

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| <ul style="list-style-type: none"><li><b>Programming</b></li><li><b>Machine Learning</b></li><li><b>Mathematics</b></li><li><b>Languages</b></li></ul> | Python (NumPy, pandas, Matplotlib, PyTorch, PySpark, Hugging Face Transformers), C++<br>Linear Regression, K-Means, SVMs, KNN, Probabilistic Models, DNNs, GNNs, LLMs<br>Calculus, Linear Algebra, Probability and Statistics, Optimization, Discrete Mathematics<br>English (Fluent), Vietnamese (Native) |
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REFERENCES

|                                     |   |
|-------------------------------------|---|
| <b>Asst. Prof. Thien Huu Nguyen</b> | thien@cs.oregon.edu   <a href="https://ix.cs.uoregon.edu/~thien/">https://ix.cs.uoregon.edu/~thien/</a>                   |
| <b>Linh Van Ngo, Ph.D.</b>          | linhvn@soict.hust.edu.vn   <a href="https://users.soict.hust.edu.vn/linhvn">https://users.soict.hust.edu.vn/linhvn</a>    |
| <b>Assoc. Prof. Khoat Than</b>      | khoattq@soict.hust.edu.vn   <a href="https://users.soict.hust.edu.vn/khoattq">https://users.soict.hust.edu.vn/khoattq</a> |