

# LE THANH THIEN




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## EDUCATION

Hanoi University of Science and Technology, Hanoi

Aug 2019 – Sep 2023

Bachelor of Science in Computer Science

- **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, from Rencontres Du Vietnam 

## PUBLICATIONS

Asterisk (\*) denotes equal contribution

### Realistic Evaluation of Toxicity in Large Language Models

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

### ToVo: Toxicity Taxonomy via Voting

Tinh Luong\*, Thanh-Thien Le\*, Thang Doan\*, Linh Ngo Van, Thien Huu Nguyen and Diep Thi-Ngoc Nguyen, *under review*

### 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*

### PhoWhisper: Automatic Speech Recognition for Vietnamese

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

### Lifelong Event Detection via Optimal Transport

Viet Dao\*, Van-Cuong Pham\*, Quyen Tran\*, Thanh-Thien Le, Linh Ngo Van, Thien Huu Nguyen, *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 Nguyen, *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*

## EXPERIENCE

VinAI, Hanoi | AI Research Resident

Feb 2023 – Present

Top 20 global company for leading AI research in 2022

Supervisor: Assoc. Prof. Thien Huu Nguyen (University of Oregon)

- Large Language Models' trustworthy, safety, reasoning - 1 published paper
- Continual learning in information extraction - 4 published papers
- Explored cross-lingual information extraction
- Collected and preprocessed data to train Large Language Model for Vietnamese language
- Trained and benchmarked PhoWhisper, state-of-the-art Speech Recognition model for Vietnamese language

- 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

- 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

ACHIEVEMENTS

Physics Unlimited Explorer Competition (PU EC) | Honorable Mention

2018

International Physics competition originated from Princeton University

- Track: Statistical Mechanics

Vietnam Physics Olympiad (VPhO) | Second Prize

2019

Most prestigious Physics competition for high school students in Vietnam.

- Top < 0.05% of nationwide high-school students in 2018-2019 school year

SOICT Hackathon 2023 | Finalist

2023

AI Development competition for nationwide students

- Track: Spoken Language Understanding

SKILLS

• Programming	Python (NumPy, pandas, Matplotlib, PyTorch, PySpark, Hugging Face Transformers), C++
• Machine Learning	Linear Regression, K-Means, SVMs, KNN, Probabilistic Models, DNNs, GNNs, LLMs
• Mathematics	Calculus, Linear Algebra, Probability and Statistics, Optimization, Discrete Mathematics
• Languages	English (IELTS 8.0), Vietnamese (Native)

REFERENCES

Assoc. Prof. Thien Huu Nguyen	thienn@uoregon.edu   <a href="https://ix.cs.uoregon.edu/~thien/">https://ix.cs.uoregon.edu/~thien/</a>
Linh Van Ngo, Ph.D.	linhvn@soict.hust.edu.vn   <a href="https://users.soict.hust.edu.vn/linhvn">https://users.soict.hust.edu.vn/linhvn</a>