

# Thi-Nhung Nguyen

nguyennhung0799@gmail.com — nhungnt7.github.io — github.com/nhungnt7

## RESEARCH INTEREST

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My research pursuits center on the advancement of deep learning algorithms tailored and resources for addressing Weakly Supervised Downstream Tasks and Information Extraction problems.

## EDUCATION

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**Hanoi University of Science and Technology (HUST)**, Hanoi, Vietnam

Bachelor in Computer Science

Advisor: Dr. Kiem-Hieu Nguyen (Lecturer)

Thesis: An Uncertainty-Aware Encoder for Aspect Detection

Aug. 2017 – Aug. 2021

Overall GPA: 3.44 — Major GPA: 3.62

## EXPERIENCE

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### AI Resident

*VinAI Research - website: vinai.io*

Mar. 2021 - Present

Hanoi, Vietnam

- Supervisor: Asst. Prof. Thien Huu Nguyen
- Research Topic: Weakly supervised learning, Information Extraction

### Research Student

*Data Science Laboratory (DSLAb), HUST*

Aug. 2020 - March 2021

Hanoi, Vietnam

- Supervisor: Dr. Kiem-Hieu Nguyen (Lecturer)
- Research Topic: Weakly supervised learning

### Research Intern

*Company: VCCorp - website: vccorp.vn*

July - Nov. 2020

Hanoi, Vietnam

- Research Topic: Recommendation System

## PUBLICATIONS

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### A Self-enhancement Multitask for Unsupervised Aspect Category Detection

2022

*Thi-Nhung Nguyen, Hoang Ngo, Kiem-Hieu Nguyen, Tuan-Dung Cao*

*Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP) 2023.*

### An Uncertainty-aware encoder for Aspect Detection

2021

*Thi-Nhung Nguyen, Kiem-Hieu Nguyen, Young-In Song, Tuan-Dung Cao*

*Findings of the Association for Computational Linguistics: EMNLP 2021.*

## PREPRINTS

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### BKEE: Pioneering Event Extraction in the Vietnamese Language (under review)

2023

*Thi-Nhung Nguyen, Bang Tran, Trong-Nghia Luu, Thien Huu Nguyen and Kiem-Hieu Nguyen*

### PhoGPT: Generative Pre-training for Vietnamese

2023

*Dat Quoc Nguyen, Linh The Nguyen, Chi Tran, Dung Ngoc Nguyen, Thi-Nhung Nguyen, Thien Huu Nguyen, Dinh Phung, Hung Bui*

### Zero-shot Cross-lingual Transfer Learning with Multiple Source and Target Languages for Information Extraction: Language Selection and Adversarial Training

2023

*Nghia Trung Ngo, Hieu Man, Thi-Nhung Nguyen, Franck Dernoncourt, Thien Huu Nguyen*

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

2023

*Thanh-Thien Le, Viet Dao, Linh Van Nguyen, Thi-Nhung Nguyen, Linh Van Ngo, Thien Huu Nguyen*

## PROJECTS

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### PhoGPT: Generative Pre-training for Vietnamese.

*VinAI Research*

Mar - Aug. 2023

Hanoi, Vietnam

- Supervisor: Dr. Dat Quoc Nguyen
- Research Topic: Crawling, Ranking models, LLMs.

## News Recommendation based on titles

Company: VCcorp

July - Nov. 2020

Hanoi, Vietnam

- Topic: Developing a news recommendation model for Soha news data.

## HONORS AND AWARDS

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### Best Thesis Presentation Award

Aug. 2021

Department of Computer Science, HUST

Award for the Best Thesis Presentation defense 2021.

### Microsoft youthspark scholarship

2017 & 2018

Microsoft Vietnam x Center for Education and Development (CED)

Scholarships for 80 Vietnamese female students with exceptional academics, leadership potential, and a passion for innovation in science.

## OTHER ACTIVITIES

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### Quy Nhon AI Challenge

2022

Topic: Sentiment Analysis

Participants: **Thi-Nhung Nguyen**, Hoang Ngo

Results: Our result was ranked top 6 on the leaderboard.

### Teaching Assistant

Summer 2021

Hanoi University of Science and Technology (HUST)

Hanoi, Vietnam

- Preparing English slides for the Web Mining courses in the master's program.
- Designing and conducting class experiments (on fundamental machine learning models such as linear regressions, k-nearest neighbors, support vector machines, and neural networks, using scikit-learn/pytorch), providing detailed presentations.

## TECHNICAL SKILLS

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**Programming Languages:** Python

**Libraries:** Pytorch, Numpy, Matplotlib, Scikit-learn

**Developer tools:** Git