

Thi-Nhung Nguyen

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

RESEARCH INTEREST

My research pursuits center on supporting languages and domains with limited resources, especially, the advancement of deep learning algorithms for addressing Weakly Supervised Downstream Tasks, Information Extraction problems, and publishing datasets and pretraining.

EDUCATION

Hanoi University of Science and Technology (HUST), Hanoi, Vietnam Aug. 2017 – Aug. 2021
Bachelor in Computer Science Overall GPA: 3.44 — Major GPA: 3.62
Advisor: Dr. Kiem-Hieu Nguyen (Lecturer)
Thesis: An Uncertainty-Aware Encoder for Aspect Detection

EXPERIENCE

AI Resident Mar. 2021 - Present
VinAI Research - website: vinai.io Hanoi, Vietnam

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

Research Student Aug. 2020 - March 2021
Data Science Laboratory (DSLAb), HUST Hanoi, Vietnam

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

Research Intern July - Nov. 2020
Company: VCcorp - website: vccorp.vn Hanoi, Vietnam

- Research Topic: Recommendation System

PUBLICATIONS

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

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 Văn Nguyen, Thi-Nhung Nguyen, Linh Van Ngo, Thien Huu Nguyen

PROJECTS

PhoGPT: Generative Pre-training for Vietnamese. Mar - Aug. 2023
VinAI Research 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

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

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

Programming Languages: Python

Libraries: Pytorch, Numpy, Matplotlib, Scikit-learn

Developer tools: Git