Mai Hoang Dao

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RESEARCH INTERESTS

Low-resource Language, Multilingual Natural Language Processing, Spoken Language Understanding

EDUCATION

The University of Edinburgh Oct. 2022 – Sep. 2025
Incoming Ph.D. Candidate in Computer Science, Major in Computational Linguistic *Edinburgh, United Kingdom*
- Advisor: Prof. Peter Bell

Posts and Telecommunications Institute of Technology (PTIT) Aug. 2017 – Jan. 2022
Bachelor of Information Technology, Major in Information System *Hanoi, Vietnam*
- GPA: 3.82/4.00 (ranked 1st/1790)
- Advisor: Assoc. Prof. Cuong Pham

University of Palermo Feb. 2019 – Jul. 2019
Erasmus+ Mobility (extra EU) Exchange Program *Palermo, Italy*
- GPA: 27/30

EXPERIENCE

VinAI Research – *website: www.vinai.io* Mar. 2020 – Present
NLP Research Intern *Hanoi, Vietnam*
- Supervisor: Dr. Dat Quoc Nguyen
- Research topic: Low-resource Language Processing, Spoken Language Understanding
- Preparing, controlling quality, and mining datasets, especially Vietnamese corpora.
- Studying, proposing, implementing models, and conducting experiments in a variety range of natural language processing tasks.
- Analysing experimental results and writing scientific papers.

Vantix Inc. – *website: www.vantixinc.com.vn* Nov. 2019 – Feb. 2020
AI Research Intern *Hanoi, Vietnam*
- Prepared, collected, and analysed signal data from a wristband to detect the wearer's activity.
- Studied and implemented multiple Machine Learning/ Deep Learning algorithms in the field of signal processing to develop commercial human activities detecting systems based on signals from smart wristbands.

PUBLICATIONS

From Disfluency Detection to Intent Detection and Slot Filling 2022
Mai Hoang Dao, Truong Hung Thinh, Dat Quoc Nguyen
Conference of the International Speech Communication Association (INTERSPEECH), to appear

Intent Detection and Slot Filling for Vietnamese 2021
Mai Hoang Dao[*], Truong Hung Thinh[*], Dat Quoc Nguyen
Conference of the International Speech Communication Association (INTERSPEECH)

COVID-19 named entity recognition for Vietnamese 2021
Truong Hung Thinh, Mai Hoang Dao, Dat Quoc Nguyen
Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)

A Pilot Study of Text-to-SQL Semantic Parsing for Vietnamese 2020
Anh Tuan Nguyen, Mai Hoang Dao, Dat Quoc Nguyen
Findings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)

A Novel Approach for APT Attack Detection based on Combined Deep Learning Model 2020
Cho Do Xuan, Mai Hoang Dao

Journal of Neural Computing and Applications (ISI Q1, IF 5.57)

APT Attack Detection Based on Flow Network Analysis Techniques Using Deep Learning 2020
*Cho Do Xuan, **Mai Hoang Dao**, Hoa Dinh Nguyen*
Journal of Intelligent & Fuzzy Systems 2020 (ISI Q2, IF 1.85)

VinAI at ChEMU shared task 1: An accurate system for named entity recognition in chemical reactions from patents 2020
***Mai Hoang Dao**, Dat Quoc Nguyen*
Working Notes of Conference and Labs of the Evaluation Forum (CLEF)

WNUT-2020 Task 2: Identification of Informative COVID-19 English Tweet 2020
*Dat Quoc Nguyen[*], Thanh Vu[*], Afshin Rahimi, **Mai Hoang Dao**, Linh The Nguyen, and Long Doan*
W-NUT: Workshop on Noisy User-generated Text at EMNLP

An Extended Overview of the CLEF 2020 ChEMU Lab: Information Extraction of Chemical Reactions from Patents 2020
*Jiayuan He, Dat Quoc Nguyen, Saber A. Akhondi, Christian Druckenbrodt, **Mai Hoang Dao** and others*
Working Notes of Conference and Labs of the Evaluation Forum (CLEF)

STUDENT RESEARCH PROJECT

Studying and manufacturing a sound sensor that contemporaneously detects multiple sound sources 2019
***Mai Hoang Dao**, Dung Tuan Nguyen, Nam Hai Nguyen, Hieu Trung Nguyen*

Designing and manufacturing mobile sensor buttons for application in building and environmental monitoring 2018
*Huu Van Hoang, Minh Hong Nguyen, **Mai Hoang Dao**, Hieu Trung Nguyen*

ACADEMIC HONORS AND AWARDS

The Semester Excellence Scholarship 2017 - 2021
Posts and Telecommunications Institute of Technology
Each semester top 2% of students with greatest academic performance are awarded.

The Honda Young Engineer and Scientist's (Y-E-S) Award 2021
Honda Foundation and Ministry of Science & Technology
The award was initiated by the Honda Foundation to find and nurture young talents in the field of technology. This year, 6 students are awarded over nearly 1000 candidates.

National Award for Outstanding Women Students in STEM 2021
Ho Chi Minh Communist Youth Union Central Committee, Vietnam

The Third Prize of the National Scientific Research Student Award 2020
Ministry of Education and Training, Vietnam
Annual national award for outstanding research projects among nationwide students.

Panasonic Scholarships for Excellent Student 2020
Panasonic Vietnam

The First Prize of the Self-driving Car Programming Contest Digital Zace 2020
Posts and Telecommunications Institute of Technology
My team studied and implemented a wide range of computer vision algorithms to develop a simulated self-driving automobile.

Scholarship for the EU Academic Exchange Erasmus+ Project 2019
University of Palermo, Italy
1 undergraduate student was selected among over 1500 applicants to study at the University of Palermo, Italy for one semester.

The Consolation Prize of the Competitive Programming Contest ACM/ICPC 2018
Posts and Telecommunications Institute of Technology

Our team ranked 10th over 128 participated teams.

The Potential Prize of the Competitive Programming Contest ACM/ICPC 2018
Posts and Telecommunications Institute of Technology

The youngest team has the highest ranking in the contest.

Scholarships for Students with Excellent National High School Exam Scores 2017
Posts and Telecommunications Institute of Technology

EXTRACURRICULAR ACTIVITIES

Technical Talk 2021
Natural Language Processing Workshop – VinAI

The online event which attracted over 2000 viewers.

The title of "Excellent student follow Uncle Ho's teachings nationwide" 2020
Ho Chi Minh Communist Youth Union Central Committee

The title of "Students with Five Merits" 2020
Ho Chi Minh Communist Youth Union of Central Offices

Students with Morality, Knowledge, Physical Health, Social Skills, and Integration Competence

Vice President of Information Technology Club 2019-2020
Posts and Telecommunications Institute of Technology

Giving specialized lectures and organizing competitions on multiple fields of Computer Science for the university freshers.

Vice Head of Organizing Committee 2020
CodeBattle Programming Contest

Technical Content Developer of Organizing Committee 2019
SheCodes Hackathon

LANGUAGE ABILITY

Vietnamese: Native

English: Proficient (IELTS Overall 7.0, Reading 9.0, Listening 7.0, Writing 6.5, Speaking 6.0)

REFERENCES

Dr. Cuong Pham, *Associate Professor* cuongpv@ptit.edu.vn
Vice Dean of Information Technology department
Director of NAVER AI Research Lab
Posts and Telecommunications Institute of Technology, Vietnam

Dr. Dat Quoc Nguyen, *Senior Research Scientist* v.datnq9@vinai.io
Head of the Natural Language Processing Group
VinAI Research, Vietnam

Dr. Dinh Phung, *Professor* dinhphung@monash.edu
Department of Data Science and Artificial Intelligence
Monash University, Australia