

# Mai Hoang Dao

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## RESEARCH INTEREST

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

## EDUCATION

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### Posts and Telecommunications Institute of Technology

Aug. 2017 – Jan. 2022

*Bachelor of Information Technology, Major in Information System*

*Hanoi, Vietnam*

- GPA: 3.76/4.00 (rank 1st/620, expected to be the valedictorian)
- Advisor: Assoc. Prof. Cuong Pham

### University of Palermo

Feb. 2019 – Jul. 2019

*Erasmus+ Mobility (extra EU) Exchange Program*

*Palermo, Italy*

- GPA: 27/30

## EXPERIENCE

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### VinAI Research - *website: [www.vinai.io](http://www.vinai.io)*

March 2020 - Present

*NLP Research Intern*

*Hanoi, Vietnam*

- Supervisor: Dr. Dat Quoc Nguyen - Senior Research Scientist
- 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](http://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 signal from smart wristband.

## PUBLICATIONS

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### Intent Detection and Slot Filling for Vietnamese

2021

*Mai Hoang Dao\**, *Truong Hung Thinh\**, *Dat Quoc Nguyen*

Conference of the International Speech Communication Association

### 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

### 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

### 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 5.573)

### 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)

<b>VinAI at ChEMU shared task 1: An accurate system for named entity recognition in chemical reactions from patents</b>	2020
<i>Mai Hoang Dao, Dat Quoc Nguyen</i>	
Working Notes of Conference and Labs of the Evaluation Forum	
<b>WNUT-2020 Task 2: Identification of Informative COVID-19 English Tweet</b>	2020
<i>Dat Quoc Nguyen*, Thanh Vu*, Afshin Rahimi, Mai Hoang Dao, Linh The Nguyen, and Long Doan</i>	
Workshop on Noisy User-generated Text	
<b>An Extended Overview of the CLEF 2020 ChEMU Lab: Information Extraction of Chemical Reactions from Patents</b>	2020
<i>Jiayuan He, Dat Quoc Nguyen, Saber A. Akhondi, Christian Druckenbrodt, Mai Hoang Dao and others</i>	
Working Notes of Conference and Labs of the Evaluation Forum	

## HONORS AND AWARDS

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<b>The Semester Excellence Scholarship</b>	2017 - 2021
<i>Department of Information Technology, PTIT</i>	
Each semester top 2% of students with greatest academic performance are awarded.	
<b>The Third Prize of the National Scientific Research Student Award</b>	2020
<i>Ministry of Education and Training, Vietnam</i>	
Annual national award for outstanding research projects among nationwide students.	
<b>Panasonic Scholarships for Excellent Student</b>	2020
<i>Panasonic Vietnam</i>	
<b>The First Prize of the Self-driving Car Programming Contest Digital Zace</b>	2020
<i>Posts and Telecommunications Institute of Technology</i>	
My team studied, implemented, ensembled a wide range of computer vision algorithms to develop a simulated self-driving automobile.	
<b>Scholarship for the EU Academic Exchange Erasmus+ Project</b>	2019
<i>University of Palermo, Italy</i>	
1 undergraduate student was selected among over 1500 applicants to study at the University of Palermo, Italy for one semester.	
<b>The Consolation Prize of the Competitive Programming Contest ACM/ICPC</b>	2018
<i>Posts and Telecommunications Institute of Technology</i>	
Our team ranked 10 <sup>th</sup> over 128 participated teams.	
<b>The Potential Prize of the Competitive Programming Contest ACM/ICPC</b>	2018
<i>Posts and Telecommunications Institute of Technology</i>	
The youngest team has the highest ranking in the contest.	
<b>Scholarships for Students with Excellent National High School Exam Scores</b>	2017
<i>Posts and Telecommunications Institute of Technology</i>	

## EXTRACURRICULAR ACTIVITIES

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<b>Technical Talk</b>	2021
<i>VinAI NLP Workshop - website: <a href="http://www.vinai.io/NLPworkshop2021">www.vinai.io/NLPworkshop2021</a></i>	
Presented the work "Intent Detection and Slot Filling for Vietnamese" at VinAI NLP Workshop - the online event which attracted over 2000 views.	
<b>Vice President of Information Technology Club</b>	2019-2020
<i>Posts and Telecommunications Institute of Technology</i>	

## CERTIFICATE

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**IELTS:** Overall 7.0, Reading 9.0, Listening 7.0, Writing 6.5, Speaking 6.0