

Duong Minh Le

minhduong38@gmail.com | (+84)34 774 0899

RESEARCH INTEREST

Machine Learning, Natural Language Processing.

EDUCATION

Hanoi University of Science and Technology (HUST)

Hanoi, Vietnam

Bachelor of Science, Computer Science

Sep. 2015 - Aug. 2020

GPA: 3.72/4.00, graduate with excellent degree

RESEARCH AND WORKING EXPERIENCE

Research Engineer

May. 2021 - Present

VinAI Research, Vietnam (vinai.io)

Hanoi, Vietnam

Supervisors: [Dr. Tin Vo](#) & [Dr. Dat Quoc Nguyen](#)

- Designing a text generation model which is able to generate replies given the customers' reviews.
- Developing a retrieval based question-answering module for a Vietnamese speech-based question answering system.
- Developing small deep learning models, which can fit in edge devices, to solve the task of intent detection and slot filling.

AI Resident

Aug. 2019 - May. 2021

VinAI Research, Vietnam (vinai.io)

Hanoi, Vietnam

Mentor: [Prof. Thien Huu Nguyen](#)

- Introducing a novel deep learning model for Event Factuality Prediction that explicitly considers multi-hop paths with both syntax-based and semantic-based edges between the words to obtain sentence structures for representation learning.
- Introducing a novel method, which leverages the synset typology in WordNet, to create a large and high-quality dataset for Fine-grained Event Trigger Detection with minimal human effort.
- Proposing a new approach to improve the performance of the state-of-the-art metaphor detection model by incorporating the knowledge from the related task and the syntactic knowledge from dependency trees.

Research student

Aug. 2018 - Aug. 2020

Data Science Lab, HUST (ds.soict.hust.edu.vn)

Hanoi, Vietnam

- Took a training course in Machine Learning

PUBLICATION

Tin Duy Vo, Manh Tien Luong, **Duong Minh Le**, Hieu Minh Tran, Nhan Tri Do, Duy Nguyen, Thien Hai Nguyen, Hung Hai Bui, Dat Quoc Nguyen, Dinh Quoc Phung. *Vietnamese Speech-based Question Answering over Car Manuals*. In NeurIPS Data-Centric AI Workshop 2021.

Duong Minh Le, Thien Huu Nguyen. *Does It Happen? Multi-hop Path Structures for Event Factuality Prediction with Graph Transformer Networks*. In Proceedings of the 7th Workshop on Noisy User-generated Text (W-NUT 2021) at EMNLP 2021.

Duong Minh Le, Thien Huu Nguyen. *Fine-Grained Event Trigger Detection*. In Proceedings of 16th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2021), April 2021.

Duong Minh Le, My Thai and Thien Huu Nguyen. *Multi-task Learning for Metaphor Detection with Graph Convolutional Neural Networks and Word Sense Disambiguation*. In Proceedings of Thirty-Fourth AAAI Conference on Artificial Intelligence, New York, USA, 2020.

PREPRINT

Nguyen Luong Tran, **Duong Minh Le**, Dat Quoc Nguyen. *BARTpho: Pre-trained Sequence-to-Sequence Models for Vietnamese*. arXiv preprint arXiv:2109.09701

SCHOLARSHIPS

Hanoi University of Science and Technology, The Excellence Scholarship for the academic year 2018-2019.
Selected 100 from 30,000 students

OTHER ACTIVITIES

Technical talk at AI DAY 2020

Title: *Multi-task Learning for Metaphor Detection with Graph Convolutional Neural Networks and Word Sense Disambiguation*.

Link: shorturl.at/oGUX8

TECHNICAL SKILLS

Programming Languages: Java, Python, C

Frameworks: Pytorch

CERTIFICATES

IELTS: Overall: 7.5, Reading: 8.5, Listening: 7.0, Writing: 6.5, Speaking: 7.0

Test date: October 31st, 2020