

Dung Ngoc Thai

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EDUCATION

UMASS, AMHERST
PH.D. COMPUTER
SCIENCE
Sep 2016 - present

HCMUT

MS COMPUTER
SCIENCE
Nov 2014 | HCM, VN
Cum. GPA: 3.9

SOCIALS

github.com/dungtn
linkedin.com/in/dung-thai
semanticscholar.org/Dung-Thai

COURSES

Reinforcement Learning
by Philip Thomas

Machine Learning
by Srihar Mahadevan

Deep Learning
by Erik Learned-Miller

SKILLS

Programming Languages
Python • Java • C++
Matlab • Julia

Frameworks
Theano • Tensorflow •
Keras
CUDA • NLTK

REFERENCES

Prof. Andrew McCallum,
UMass
mccallum@cs.umass.edu
Prof. Nam Thoai,
HCMUT
nam@cse.hcmut.edu.vn
Prof. Vu Dinh, HCMUT
vudda@uit.edu.vn

SUMMARY

I'm June, a PhD student at UMass Amherst, advised by **Professor Andrew McCallum**. I'm interested in various areas of Machine Learning (ML) and Natural Language Processing (NLP). My overarching research focuses on Case-Based Reasoning and its applications in open-domain and knowledge-base question answering.

RESEARCH EXPERIENCES

INFORMATION EXTRACTION SYNTHESIS LAB | GRADUATE STUDENT

Sep 2016 – present | UMass Amherst, US

Case-Based Reasoning (CBR) is an experience-based approach to solve new problems by adapting previously known solutions to similar problems. CBR is particularly useful for complex, compositional problems, such as question answering. I'm working on non-parametric, pre-train based CBR QA systems. My research also involves metric learning and learning of dense-retrieval models.

IBM | RESEARCH INTERN

Online 2021
Question answering over incomplete knowledge bases built a CBR system that utilizes KB Completion and pre-trained text representation for incomplete-KBQA.

Yorktown 2020
Compositional question answering over knowledge bases built a sketch-generator model jointly with end-to-end entity linking and relation extraction.

ADOBE INC. | RESEARCH INTERN

San Jose 2018
Question answering on semi-structured tables built a multi-heads attention model based on the Neural Programmer architecture.

San Jose 2017
Variational autoencoder for semi-supervised question answering learned an unsupervised question representation to improve the generalization of the supervised question answering model.

SELECTED PUBLICATIONS

EMNLP 2021
Case-based Reasoning for Natural Language Queries over KBs
Rajarshi Das*, Manzil Zaheer*, **Dung Thai***, Ameya Godbole*, Ethan Perez, Jay-Yoon Lee, Lizhen Tan, Lazaros Polymenakos, Andrew McCallum

NAACL 2021
TABBIE: Pretrained Representations of Tabular Data
Hiroshi Iida*, **Dung Thai***, Varun Manjunatha, Mohit Iyyer

REPL4NLP 2021
Simultaneously Self-Attending to Text and Entities for Knowledge-Informed Text Representations
Dung Thai, Raghuveer Thirukovalluru, Trapit Bansal, Andrew McCallum

REPL4NLP 2021
Knowledge Informed Semantic Parsing for Conversational QA
Raghuveer Thirukovalluru, **Dung Thai**, Mukund Sridhar, Shruti Channolu, Sankaranarayanan Ananthakrishnan, Andrew McCallum

CoNLL 2018
Embedded-State Latent Conditional Random Fields for Sequence Labeling (Oral Presentation)
Dung Thai, Sree H. Ramesh, Shikhar Murty, Luke Vilnis, Andrew McCallum in SIGNLL Conference on Computational Natural Language Learning, Belgium

ICML 2017
Low-rank hidden state embeddings for Viterbi sequence labeling
Dung Thai, Shikhar Murty, Trapit Bansal, Luke Vilnis, David Belanger, Andrew McCallum in 1st DeepStruct Workshop, in 34th International Conference on Machine Learning, Australia.