

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

COURSES

Reinforcement Learning

by Philip Thomas

Machine Learning

by Srihari 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 a fourth year Ph.D. student at UMass Amherst, advised by **Prof. Andrew McCallum**. My research focuses on knowledge-informed language models and their applications for knowledge base completion and question answering. I'm intrigued by how models pre-trained with MLM objective perform so well on a wide range of tasks and would like to explore their capabilities when paired with semi-structured data such as knowledge graphs.

RESEARCH EXPERIENCES

INFORMATION EXTRACTION SYNTHESIS LAB | GRADUATE STUDENT

Sep 2016 – present | UMass Amherst, US

My ongoing research study how to enhance pre-trained language representations with information from knowledge graphs. Previously, I worked on training models on large-scale, distantly supervised data and modeling complex output constraints with Latent Conditional Random Field.

IBM | RESEARCH INTERN

Yorktown
2020

Compositional question answering over knowledge bases built a retrieval-based language model and learn a knowledge-informed encoder-decoder model for answering natural question given a knowledge base.

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

EACL
2021

Bi-directional Entity to Text Attention for Knowledge Informed Text Representations

Trapit Bansal, **Dung Thai**, Raghavveer Thirukovalluru, Andrew McCallum in submission to EACL

EACL
2021

Knowledge Informed Semantic Parsing for Conversational QA

Dung Thai, Raghavveer Thirukovalluru, Mukund Sridhar, Shruti Chanumolu, Sankaranarayanan Ananthkrishnan, Andrew McCallum in submission to EACL

AKBC
2020

Using BibTeX to Automatically Generate Labeled Data for Citation Field Extraction

Dung Thai, Zhiyang Xu, Nicholas Monath, Boris Veysman, Andrew McCallum in Automated Knowledge Base Construction, Online

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.