Lu Lin

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`https://louise-lulin.github.io`

RESEARCH INTERESTS

I have a broad interests on Machine Learning, with a focus on representation learning from multi-modal data, e.g. graph, text and etc.

EDUCATION

University of Virginia (UVa)	09/2017 - Present

Ph.D. in Computer Science
Advisor: Hongning Wang

Beihang University	08/2014 - 04/2017

M.S. in Computer Science

Beihang University	09/2010 - 06/2014

B.S. in Computer Science

RESEARCH EXPERIENCE

LinkedIn	06/2020 - 09/2020

Machine Learning Intern
Building a framework to learn entity embeddings from heterogeneous graphs, and the link prediction performance is improved by the graph embedding model with attention mechanism and multitask objectives.
- Mentor: Yang Yang

UVa Human-Centric Data Mining Group	09/2017 - Present

Research Assistant
Representation learning from multi-modal data (e.g. graphs, texts and etc), including graph neural networks with attentions from edge textual channels, learning user representation and personalized topical compositions.
- Mentor: Hongning Wang

DiDi AI Lab	09/2015 - 05/2016

Machine Learning Intern
Studying the problem of estimating time of arrival (ETA) given origin-destination pair in a map, which is a core infrastructure for many downstream tasks, e.g. order assignment and price estimate.
- Mentor: Jieping Ye

Beihang Advanced Computing Technology Institutes	07/2014 - 09/2015

Research Assistant
Building a unified probabilistic model to predict traffic speed from multi-modal data, e.g. GPS, mobile trajectory and social media data.
- Mentors: Jianxin Li, Feng Chen

PUBLICATIONS

[1] **Lu Lin**, and Hongning Wang. "Graph Attention Networks over Edge Content-Based Channels." Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (SIGKDD). 2020.

[2] Gong, Lin, **Lu Lin**, Weihao Song and Hongning Wang. "JNET: Learning User Representations via Joint Network Embedding and Topic Embedding." Proceedings of the 13th International Conference on Web Search and Data Mining (WSDM). 2020.

[3] **Lu Lin**, Zhen Luo, Dezhi Hong and Hongning Wang. "Sequential learning with active partial labeling for building metadata." Proceedings of the 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (BuildSys). 2019.

[4] **Lu Lin**, Lin Gong, and Hongning Wang. "Learning Personalized Topical Compositions with Item Response Theory." Proceedings of the Twelfth ACM International Conference on Web Search and Data Mining (WSDM). 2019.

[5] **Lu Lin**, Jianxin Li, Feng Chen, Jieping Ye and Jinpeng Huai. "Road traffic speed prediction: a probabilistic model fusing multi-source data." IEEE Transactions on Knowledge and Data Engineering (TKDE) 30.7 (2017): 1310-1323.

[6] **Lu Lin**, Jianxin Li, Richong Zhang and Chenggen Sun. "Opinion mining and sentiment analysis in social networks: a retweeting structure-aware approach." 2014 IEEE/ACM 7th International Conference on Utility and Cloud Computing (UCC). IEEE, 2014.

TEACHING EXPERIENCES		
Teaching Assistant		Spring 2020
Course: Graph Mining (Grad)		UVa
Teaching Assistant		Fall 2019
Course: Natural Language Processing (Grad)		UVa
Teaching Assistant		Spring 2019
Course: Text Mining (Grad)		UVa

INVITED TALKS		
Representation Learning on Heterogeneous Graphs at LinkedIn		
LinkedIn		08/2020
Graph Attention Networks over Edge Content-based Channels		
International Conference on Knowledge Discovery & Data Mining		08/2020
Graph Attention Networks over Edge textual Channels		
LinkedIn		07/2020
Learning User Representation via Joint Network Embedding and Topic Embedding		
International Conference on Web Search and Data Mining		02/2020
Learning Personalized Topical Compositions with Item Response Theory		
International Conference on Web Search and Data Mining		02/2019

ACADEMIC SERVICES

Program Committee
- AAAI Conference on Artificial Intelligence (AAAI)
- International Joint Conference on Artificial Intelligence (IJCAI)

Conference Reviewer
- IEEE International Conference on Big Data (BigData)
- International Conference on Web Search and Data Mining (WSDM)

Journal Reviewer
- IEEE Transactions on Knowledge and Data Engineering (TKDE)

AWARDS

- SIGKDD 2020 Student Travel Award — 08/2020
- WSDM 2019 Student Travel Award — 02/2019
- SIGIR 2018 Student Travel Award — 07/2018
- UVa Computer Science Fellowship — 09/2017
- Beihang Computer Science Fellowship — 09/2016
- Beihang Computer Science Fellowship — 09/2015
- Outstanding Student Graduation Fellowship of Beijing City — 06/2014
- Best Bachelor Thesis Award — 06/2014
- Beihang Outstanding Student Fellowship — 06/2012
- Beihang "Qian-Shen" Fellowship — 04/2012
- Beihang Outstanding Student Fellowship — 06/2011
- Third Prize in 22nd Undergraduate Mathematical Contest — 04/2011