

Liyuan Liu

"I saw the angel in the marble and carved until I set him free. - Michelangelo"

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RESEARCH INTEREST

Mining knowledge from unlabeled text, then using such knowledge to enhance Natural Language Understanding.

EDUCATION

UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN (UIUC)

PH.D. IN COMPUTER SCIENCE, EXPECTED JUNE. 2021

Illinois, USA

September. 2016 - Present

- Advisor: Prof. Jiawei Han
- Conduct extensive research projects while maintaining a GPA of 4.0/4.0

UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA (USTC)

B.E. IN COMPUTER SCIENCE

Hefei, China

September. 2010 - June. 2016

- Advisor: Prof. Linli Xu
- Ranked among top 5% and graduated with honors

EXPERIENCE

Data Mining Group @ UIUC

RESEARCH ASSISTANT, ADVISOR: PROF. JIAWEI HAN

Urbana, USA

September. 2016 - PRESENT

Social Computing Group @ MICROSOFT RESEARCH ASIA

INTERN, ADVISOR: DR. RUIHUA SONG

Beijing, China

July. 2015 - May. 2016

Laboratory of Semantic Computing and Data Mining @ USTC

UNDERGRADUATE RESEARCHER, ADVISOR: PROF. JIAWEI HAN

Hefei, Anhui

Oct. 2013 - June. 2015

National Student Innovation Training Program @ USTC

TEAM LEADER, ADVISOR: PROF. KAI XING

Hefei, Anhui

April. 2013 - May. 2015

PUBLICATIONS

- **Liu, Liyuan**, Jingbo Shang, Xiaotao Gu, Xiang Ren, Jian Peng and Jiawei Han. "Exploring Representation Methods for Sequence Labeling." Under Review.
- Carl Yang, **Liu, Liyuan**, Mengxiong Liu, Zhongyi Wang, Meng Qu and Jiawei Han. "Graph Clustering with Deep Embedding." Under Review.
- Huan Gui, Qi Zhu, **Liyuan Liu**, Aston Zhang and Jiawei Han. "Expert Finding in Heterogeneous Bibliographic Networks with Locally-trained Embeddings." Under Review.
- **Liu, Liyuan**, Jingbo Shang, Frank Xu, Xiang Ren, Huan Gui, Jian Peng and Jiawei Han. "Empower Sequence Labeling with Task-Aware Neural Language Model." in Proc. of 2018 AAAI Conf. on Artificial Intelligence (AAAI'18), to appear.
- **Liu, Liyuan**, Xiang Ren, Qi Zhu, Shi Zhi, Huan Gui, Heng Ji and Jiawei Han. "Heterogeneous Supervision for Relation Extraction: A Representation Learning Approach." in Proc. of 2017 Conf. on Empirical Methods in Natural Language Processing (EMNLP'17), Copenhagen, Denmark, Sept. 2017. (Oral, Long)

- Chao Zhang, **Liyuan Liu**, Dongming Lei, Quan Yuan, Honglei Zhuang, Tim Hanratty and Jiawei Han, "TrioVecEvent: Embedding-Based Online Local Event Detection in Geo-Tagged Tweet Streams", in Proc. of 2017 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'17), Halifax, Nova Scotia, Canada, Aug. 2017. (Oral, Long)
- Qi Zhu, Hongwei Ng, **Liyuan Liu**, Ziwei Ji, Bingjie Jiang, Jiaming Shen and Huan Gui. "Wikidata Vandalism Detection—The Loganberry Vandalism Detector at WSDM Cup 2017", in WSDM Cup 2017 Notebook Papers, Feb. 10, Cambridge, UK.
- **Liyuan Liu**, Linli Xu, Zhen Wang and Enhong Chen, "Community Detection Based on Structure and Content: A Content Propagation Perspective", in Proc. of 2016 Int. Conf. on Data Mining (ICDM'16), Atlantic City, NJ, USA, Nov. 2015. (Oral, Long, AC rate: 18.1%)

HONORS & AWARDS

Highlights

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|------------------------------------------------------------|------|
| Guo Moruo Scholarship | 2015 |
| • the Highest Honor for USTC Undergraduate Students. | |
| Google Excellent Scholarship | 2015 |
| • Only 58 Graduate and Undergraduate Students Shortlisted. | |

Scholarships

- | | |
|------------------------------------------|------|
| Samsung Scholarship | 2015 |
| • for Top 5% Students. | |
| Tencent Innovative Scholarship | 2014 |
| • for Top 5% Students. | |
| Scholarship for Outstanding Students | 2013 |
| • for Top 5% Students. | |
| Seagate Scholarship | 2013 |
| • for Top 5% Students. | |
| Scholarship for Outstanding New Students | 2012 |
| • for Top 5% Students. | |

Awards

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|-----------------------------|------|
| 3th Place at WSDM Cup 2017 | 2017 |
| • Vandalism Detection Task. | |
| ICDM 2015 Travel Award | 2015 |

SKILLS

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| Programming | C, C++, JAVA, Python, Lua, Matlab |
| Packages | Torch, PyTorch |
| Languages | English, Chinese |