

"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 & Using such knowledge to enhance natural language processing/understanding.

EDUCATION _

UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN (UIUC)

Illinois, USA

Ph.D. in Computer Science, Expected June. 2021

September 2016 - Present

· Advisor: Prof. Jiawei Han

UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA (USTC)

Hefei, China

B.E. IN COMPUTER SCIENCE September 2012 – June 2016

• Advisor: Prof. Linli Xu

• Shortlisted for the Guo Moruo scholarship and graduated with honors

EXPERIENCE

Data Mining Group @ UIUC

Urbana, USA

RESEARCH ASSISTANT, ADVISOR: PROF. JIAWEI HAN

September 2016 – PRESENT

AllenNLP @ AI2

Seattle, USA

INTERN, ADVISOR: DR. MATTHEW E PETERS

May 2018 – Auguest 2018

Social Computing Group @ MICROSOFT RESEARCH ASIA

Beijing, China

INTERN, ADVISOR: DR. RUIHUA SONG

July 2015 – May 2016

Laboratory of Semantic Computing and Data Mining @ USTC

Hefei, Anhui

Undergraduate Researcher, Advisor: Prof. Linli Xu

October 2013 – June 2015

National Student Innovation Tranining Program @ USTC

Hefei, Anhui

PROJECT LEADER, ADVISOR: PROF. KAI XING

April 2013 – May 2015

PUBLICATIONS

- [1] Jingbo Shang, Xiyao Shi, Meng Jiang, **Liyuan Liu**, Timothy Hanratty and Jiawei Han. "Contrast Subgraph Mining from Coherent Cores." *arXiv preprint arXiv:1802.06189 (2018)*.
- [2] Carl Yang, Mengxiong Liu, Zongyi Wang, **Liyuan Liu** and Jiawei Han. "Graph Clustering with Dynamic Embedding." *arXiv preprint arXiv:1712.08249 (2017).*
- [3] Jingbo Shang*, **Liyuan Liu***, Xiaotao Gu, Xiang Ren, Teng Ren and Jiawei Han "Learning Named Entity Tagger using Domain-Specific Dictionary." in *Proc. of 2017 Conf. on Empirical Methods in Natural Language Processing (EMNLP'18), to appear.*
- [4] **Liyuan Liu**, Xiang Ren, Jingbo Shang, Jian Peng and Jiawei Han. "Efficient Contextualized Representation: Compressing Language Models for Sequence Labeling." in *Proc. of 2017 Conf. on Empirical Methods in Natural Language Processing (EMNLP'18), to appear.*
- [5] **Liyuan Liu***, 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).

- [6] **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), New Orleans, LA, Feb. 2018.*
- [7] 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).*
- [8] 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 (WSDM Cup' 17)*, Feb. 10, Cambridge, UK.
- [9] **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

Guo Moruo Scholarship

• the Highest Honor for USTC Undergraduate Students.

Google Excellent Scholarship

• Only 58 Graduate and Undergraduate Students Shortlisted.

Scholarships

Samsung Scholarship

• for Top 5% Students.

Tencent Innovative Scholarship

• for Top 5% Students.

Scholarship for Outstanding Students

• for Top 5% Students.

Seagate Scholarship

• for Top 5% Students.

Scholarship for Outstanding New Students

• for Top 5% Students.

Awards

3th Place at WSDM Cup 2017

• Vandalism Detection Task.

Data Mining Research Honorable Mention Award

ICDM 2015 Travel Award

2017

SKILLS_

Programming C, C++, JAVA, Python, Lua, Matlab

DL Packages Torch, PyTorch **Languages** English, Chinese