

Yu ZHANG

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EDUCATION

- University of Illinois, Urbana-Champaign** 2017.08 - 2019.05
M.S. in Computer Science (Expected), Advisor: Prof. Jiawei Han
- Peking University** 2013.09 - 2017.07
B.S. in Computer Science, *With Honors*, Advisor: Prof. Yan Zhang
Best 10 Undergraduate Theses of PKU EECS (10/315)

EXPERIENCE

- University of Illinois, Urbana-Champaign** 2017.08 - Present
Research Assistant, Data Mining Group, Database and Information System (DAIS) Lab
- Project: **Weakly Supervised Information Extraction from Massive Corpora**, Advisor: Prof. Jiawei Han
 - Integrated local information (patterns and dependency paths) and global information (embedding vectors of entities and relations) for relation classification and open-domain information extraction
 - Conducted experiments on various social media datasets (e.g., New York Times, Wikipedia and Twitter) and outperformed several benchmark methods.
 - Project: **Cross-type Named Entity Recognition with Deep Multi-Task Learning**, Advisor: Prof. Jiawei Han
 - Proposed a multi-task learning framework for named entity recognition on several partially labeled corpus.
 - Cooperated with Stanford medical school and conducted experiments on several biomedical corpora
- Peking University** 2015.07 - 2017.06
Research Assistant, Data Analysis and Intelligent Retrieval Lab
- Project: **Influential Nodes Mining in Social Networks**, Advisor: Prof. Yan Zhang
 - Proposed a coordination game model to characterize information propagation in social networks
 - Presented a greedy algorithm with approximation guarantee to discover influential nodes
- Carnegie Mellon University** 2016.06 - 2016.09
Research Intern, Computational Analysis of Social and Organizational Systems (CASOS) Lab
- Project: **Location Inference of Social Media Users**, Advisor: Prof. Kathleen M. Carley
 - Extracted tweets and Twitter users profile information through the Twitter Streaming API
 - Presented a Bayesian graphical model that combines text features and user features in real-time location estimation

PUBLICATIONS

- Yu Zhang**, Wei Wei, Binxuan Huang, Kathleen M. Carley and Yan Zhang. *RATE: Overcoming Noise and Sparsity of Textual Features in Real-Time Location Estimation*. The 26th ACM International Conference on Information and Knowledge Management (CIKM'17).
- Yu Zhang** and Yan Zhang. *Top-K Influential Nodes in Social Networks: A Game Perspective*. The 40th ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'17).
- Meng Qu, Xiang Ren, **Yu Zhang** and Jiawei Han. *Weakly-supervised Relation Extraction by Pattern-enhanced Embedding Learning*. The 27th International World Wide Web Conference (WWW'18).
- Qi Zhu, Xiang Ren, Jingbo Shang, **Yu Zhang**, Frank F. Xu and Jiawei Han. *Integrating Local Context and Global Cohesiveness for Open Information Extraction*. Submitted to KDD'18.
- Xuan Wang, **Yu Zhang**, Xiang Ren, Yuhao Zhang, Marinka Zitnik, Jingbo Shang, Curtis Langlotz and Jiawei Han. *Cross-type Biomedical Name Entity Recognition with Deep Multi-Task Learning*. Submitted to ISMB'18.

AWARDS

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| 2017 | Outstanding Graduates of Peking University |
| 2017 | SIGIR 2017 Student Travel Grants |
| 2016 | Kwang-Hua Scholarship |
| 2015 | May 4th Scholarship |
| 2014 | National Scholarship (Top 2%) |
| 2011/2012 | First Prize, National Olympiad in Informatics in Provinces (NOIP) |

TECHNICAL STRENGTHS

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| Programming Languages | Proficient with C/C++, Python, MATLAB |
| Miscellaneous | L ^A T _E X, Git, Gephi, PyTorch, Scikit-learn |
| English Skills | TOEFL 106 (Reading 29, Listening 26, Speaking 26, Writing 25) |