

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
GPA: 4.0/4.0. Courses: Data Mining (A+), Advanced Information Retrieval (A+), Artificial Intelligence (A+).
- Peking University** 2013.09 - 2017.07
B.S. in Computer Science, *With Honors*, Advisor: Prof. Yan Zhang
Thesis: Mining Social Network Structure and Influential Nodes from Text-Based Cascades, *Best Undergraduate Thesis Award of PKU EECS (10/315)*.

EXPERIENCE

- University of Illinois, Urbana-Champaign** 2017.08 - Present
· *Research Assistant, Data Mining Group, Database and Information System Lab, Advisor: Prof. Jiawei Han*
· Project: **Weakly-Supervised Information Extraction from Massive Corpora**
· Worked on named entity recognition, relation classification and open-domain information extraction under weakly-supervised settings
· Conducted experiments on various social media datasets (e.g., New York Times, Wikipedia and Twitter) and outperformed several benchmark methods.
· Project: **Cross-type Biomedical Entity Recognition with Deep Multi-Task Learning**
· 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, Advisor: Prof. Yan Zhang*
· Project: **Influential Nodes Mining in Social Networks**, Advisor: Prof. Yan Zhang
· Combined Hawkes Processes and Latent Dirichlet Allocation together to infer social network structure from text-based cascades
· Proposed a game-based model to characterize information propagation in social networks
- Carnegie Mellon University** 2016.06 - 2016.09
· *Research Intern, Computational Analysis of Social and Organizational Systems Lab, Advisor: Prof. Kathleen M. Carley*
· Project: **Location Inference of Social Media Users**, Advisor: Prof. Kathleen M. Carley
· Proposed a Bayesian model for real-time location estimation based on tweets and Twitter users' profile

PUBLICATIONS

- Xuan Wang, **Yu Zhang**, Qi Li, Yinyin Chen and Jiawei Han. *Open Information Extraction with Meta-pattern Discovery in Biomedical Literature*. The 9th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (**ACM-BCB 2018**).
- Jiaming Shen*, Jinfeng Xiao*, **Yu Zhang**, Carl Yang, Jingbo Shang, Jinda Han, Saurabh Sinha, Peipei Ping, Richard Weinshilboum and Jiawei Han. *SetSearch+: Entity-Set-Aware Search and Analytics for Scientific Literature*. The 24th SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD 2018**). System Demo.
- 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 2018**).
- Qi Zhu, Xiang Ren, Jingbo Shang, **Yu Zhang**, Frank F. Xu and Jiawei Han. *Open Information Extraction with Global Structure Constraints*. The 27th International World Wide Web Conference (**WWW 2018**). Poster, **Best Poster Award Honorable Mention**.
- 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 2017**). Short.
- 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 2017**). Short.

AWARDS

2018 WWW 2018 Best Poster Award Honorable Mention
2017 Best Undergraduate Thesis Award of PKU EECS (10/315)
2017 Outstanding Graduates of PKU
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)

TEACHING

2018 Fall Introduction to Data Mining, *Teaching Assistant*, UIUC
2018 Spring Introduction to Data Mining, *Teaching Assistant*, UIUC
2016 Spring Algorithm Design and Analysis, *Teaching Assistant*, PKU
2015 Fall Data Structure and Algorithms, *Teaching Assistant*, PKU

TECHNICAL STRENGTHS

Programming Languages Proficient with C/C++, Python, MATLAB, Java
Miscellaneous L^AT_EX, Git, Gephi, PyTorch, Scikit-learn