

Yu ZHANG

Room 1117, Siebel Center for Computer Science, 201 N. Goodwin Ave, Urbana, IL 61801
yuz9@illinois.edu | <https://yuzhimanhua.github.io> | <https://github.com/yuzhimanhua>

EDUCATION

- University of Illinois at Urbana-Champaign** *2019.05 - Present*
Ph.D. Candidate in Computer Science. Advisor: Prof. Jiawei Han
GPA: 4.0/4.0.
- University of Illinois at Urbana-Champaign** *2017.08 - 2019.05*
M.S. in Computer Science. Advisor: Prof. Jiawei Han
GPA: 4.0/4.0. A+'s in all taken CS courses.
- Peking University** *2013.09 - 2017.07*
B.S. in Computer Science. Advisor: Prof. Yan Zhang
GPA: 3.67/4.0. National Scholarship.

RESEARCH EXPERIENCE

- University of Illinois at Urbana-Champaign** *2017.08 - Present*
· Research Assistant. Data Mining Group. Advisor: Prof. Jiawei Han
· Thesis Project: Weakly Supervised Classification of Text with Metadata (ICDM'19, SIGIR'20, WSDM'21, WWW'21)
- Microsoft Research, Redmond** *2021.05 - 2021.08*
· Research Intern. Microsoft Search, Assistant and Intelligence. Manager/Mentor: Dr. Zhihong (Iris) Shen.
- Microsoft Research, Redmond** *2020.05 - 2020.08*
· Research Intern. Microsoft Academic. Manager/Mentor: Dr. Zhihong (Iris) Shen, Co-Mentor: Dr. Yuxiao Dong.
· Project: Large-scale Multi-label Classification of Academic Papers (WWW'21)
- Carnegie Mellon University** *2016.06 - 2016.09*
· Research Assistant. Institute for Software Research. Advisor: Prof. Kathleen M. Carley
· Project: Location Inference of Social Media Posts (CIKM'17)
- Peking University** *2015.07 - 2017.06*
· Research Assistant. Data Analysis and Intelligent Retrieval Group. Advisor: Prof. Yan Zhang
· Project: Influential Node Mining in Social Networks (SIGIR'17)

SELECTED PUBLICATIONS

Unless otherwise specified, the paper is accepted as a research track long/regular paper. "*" indicates equal contribution.

Yu Zhang, Zhihong Shen, Yuxiao Dong, Kuansan Wang and Jiawei Han.
MATCH: Metadata-Aware Text Classification in A Large Hierarchy.
The 30th International World Wide Web Conference (**WWW 2021**).

Yu Zhang, Xiushi Chen, Yu Meng and Jiawei Han.
Hierarchical Metadata-Aware Document Categorization under Weak Supervision.
The 14th ACM International Conference on Web Search and Data Mining (**WSDM 2021**).

Carl Yang*, Yuxin Xiao*, **Yu Zhang***, Yizhou Sun and Jiawei Han.
Heterogeneous Network Representation Learning: A Unified Framework with Survey and Benchmark.
IEEE Transactions on Knowledge and Data Engineering (**TKDE**). Accepted.

Yu Meng, Yunyi Zhang, Jiaxin Huang, **Yu Zhang**, Chao Zhang and Jiawei Han.
Hierarchical Topic Mining via Joint Spherical Tree and Text Embedding.
The 26th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (**KDD 2020**).

Yu Zhang*, Yu Meng*, Jiaxin Huang, Frank F. Xu, Xuan Wang and Jiawei Han.
Minimally Supervised Categorization of Text with Metadata.
The 43rd ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR 2020**).

Yu Meng, Jiaxin Huang, Guangyuan Wang, Zihan Wang, Chao Zhang, **Yu Zhang** and Jiawei Han.
Discriminative Topic Mining via Category-Name Guided Text Embedding.
The 29th International World Wide Web Conference (**WWW 2020**).

Yu Zhang, Frank F. Xu, Sha Li, Yu Meng, Xuan Wang, Qi Li and Jiawei Han.
HiGitClass: Keyword-Driven Hierarchical Classification of GitHub Repositories.
The 19th IEEE International Conference on Data Mining (**ICDM 2019**).

Yu Zhang.

Diversifying Seeds and Audience in Social Influence Maximization.
The 11th International Conference on Advances in Social Networks Analysis and Mining (**ASONAM 2019**). Short.

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.
Bioinformatics. Volume 35, Issue 10.

Qi Zhu, Xiang Ren, Jingbo Shang, **Yu Zhang**, Ahmed El-Kishky and Jiawei Han.
Integrating Local Context and Global Cohesiveness for Open Information Extraction.
The 12th ACM International Conference on Web Search and Data Mining (**WSDM 2019**).

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 Runner-up**.

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

2021	WWW 2021 Student Scholarship
2021	WSDM 2021 Student Travel Grant
2020	SIGIR 2020 Student Travel Grant
2018	WWW 2018 Best Poster Award Runner-up
2017	Best Undergraduate Thesis Award, School of EECS, Peking University (10/310+)
2017	Outstanding Graduates, Peking University
2017	SIGIR 2017 Student Travel Grant
2016	Kwang-Hua Scholarship
2015	May 4th Scholarship
2014	National Scholarship (Top 1%)
2011/2012	First Prize, National Olympiad in Informatics in Provinces

PROFESSIONAL SERVICES

Conference Program Committee	ACL 2021; NeurIPS 2021; ICLR 2021; EMNLP 2020-2021; NAACL-HLT 2021
Journal Reviewer	ACM Transactions on Knowledge Discovery from Data (TKDD); IEEE Transactions on Big Data (TBD)
Student Volunteer	SIGIR 2020

TEACHING EXPERIENCE

Fall 2018, 2019, 2020	UIUC	Teaching Assistant	CS 412: Introduction to Data Mining
Spring 2019	UIUC	Teaching Assistant	CS 412: Introduction to Data Mining (Coursera)
Spring 2016	PKU	Teaching Assistant	Algorithm Design and Analysis
Fall 2015	PKU	Teaching Assistant	Data Structure and Algorithms

TECHNICAL STRENGTHS

Programming Languages	Python, C/C++, MATLAB
Machine Learning Packages	PyTorch, Keras, Scikit-learn
Tools	Bash, L ^A T _E X, Git, Gephi, OmniGraffle