

# MENG JIANG, PH.D.

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## WORK EXPERIENCE

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### Assistant Professor

2017 – *present*

University of Notre Dame  
Department of Computer Science and Engineering

### Postdoctoral Research Associate

2015 – 2017

University of Illinois at Urbana-Champaign  
Department of Computer Science  
Advisor: Prof. Jiawei Han

## EDUCATION

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- Ph.D.** Tsinghua University, Computer Science and Technology 2015  
Dissertation: *Modeling Complex User Behaviors on Social Media*  
Graduated with honors; Advisor: Prof. Shiqiang Yang  
Visiting Ph.D. Student at CMU; Advisor: Prof. Christos Faloutsos
- B.Eng.** Tsinghua University, Computer Science and Technology 2010

## HONORS AND AWARDS

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| NSF CAREER Award                             | 2022 |
| ACM CIKM Conference Best Reviewer Award      | 2021 |
| ACM SIGSOFT (ICSE) Distinguished Paper Award | 2021 |
| ACM SIGKDD-DLG Workshop Best Paper Award     | 2020 |
| ACM WSDM Conference Outstanding PC           | 2020 |
| NSF CRII Award                               | 2019 |
| Notre Dame Faculty Research Award            | 2019 |
| ACM SIGKDD Conference “Best of KDD 2014”     | 2014 |

## SCHOLAR PAGES

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- Google Scholar: <https://scholar.google.com/citations?user=LZIPfCkAAAAJ>
- |           |      |
|-----------|------|
| Citations | 3523 |
| h-index   | 29   |
| i10-index | 59   |
- DBLP: [https://dblp.org/pers/hd/j/Jiang\\_0001:Meng](https://dblp.org/pers/hd/j/Jiang_0001:Meng)

## GRANTS AND GIFTS

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External funds: Total amount: \$3,523,052; Total credit: **\$1,880,704**

“CAREER: Synergistic Approaches for Specialized Intelligent Assistance”

March 15, 2022 – February 28, 2027

Funding Vehicle: NSF IIS-2142827

Amount: **\$549,969** (Credit: 100%)

Role: Sole PI

“III: Small: Comprehensive Methods to Learn to Augment Graph Data”

March 1, 2022 – February 28, 2025

Funding Vehicle: NSF IIS-2146761

Amount: **\$499,999** (Credit: 100%)

Role: Sole PI

“CRII: III: Beyond Similarity Learning: Complementarity Learning for Contextual Behavior Modeling”

October 1, 2019 – September 30, 2021 (*Completed*)

Funding Vehicle: NSF IIS-1849816

Amount: **\$174,910** (Credit: 100%)

Role: Sole PI

“RETTL: Collaborative Research: Advancing STEM Online Learning by Augmenting Accessibility with Explanatory Captions and AI”

September 15, 2021 – August 31, 2024

Funding Vehicle: NSF IIS-2119531

Amount: \$849,994 (Credit: 22%; **\$190,070**)

Role: ND Lead PI

“SHF: Medium: Collaborative Research: Semantically-Enhanced Software Traceability for Supporting Human-Centric Tasks”

August 15, 2019 – August 14, 2023

Funding Vehicle: NSF CCF-1901059

Amount: \$1,035,030 (Credit: 33%; **\$341,556**)

Role: Co-PI

“Representation Learning for Modeling and Predicting User Engagement and Propensity for Conversion Through the Engagement Funnel”

January 21, 2019 – May 20, 2020 (*Completed*)

Funding Vehicle: Conde Nast

Amount: \$148,400 (Credit: 50%; **\$74,200**)

Role: Co-PI

“Advancing Real-Time Suicide Risk Detection Through the Digital Phenotyping Smartphone Application Screenomics”

March 4, 2022 – February 28, 2023

Funding Vehicle: NIH 1R21MH129688-01

Amount: \$234,750 (Credit: 8.5%; **\$20,000**)

Role: Co-Investigator

Unrestricted Gift: “Automated Graph Data Augmentation with Reinforcement Learning”  
 September 28, 2021  
 Funding Vehicle: Amazon  
 Amount: **\$20,000**

Unrestricted Gift: “Augmenting Graph Data with Sequence Predictor”  
 July 1, 2020  
 Funding Vehicle: Snap Inc.  
 Amount: **\$10,000**

Internal Fund: “Explaining Recommender Systems with Counterfactual Examples”  
 January 1, 2022 – December 31, 2022  
 Funding Vehicle: Notre Dame International  
 Amount: **\$8,400**  
 Role: Sole PI

Internal Fund: “Digital Empires: Structured Biographical and Social Network Analysis of Early Chinese Empires”  
 May 1, 2019 – August 31, 2021 (*Completed*)  
 Funding Vehicle: Notre Dame International (*Completed*)  
 Amount: \$43,811 (ND Research) (Credit: 75%; **\$33,281**)  
 Role: ND CSE Lead PI

(@ indicates supervised graduate students. \* indicates supervised undergraduate students.)

## PUBLICATIONS

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*Conference Papers* (12 ACM SIGKDD full papers, etc.)

- C65 @Yu, W., Zhu, C., Qin, L., @Zhao, T. **Jiang, M.** “Diversifying Content Generation for Commonsense Reasoning with Mixture of Knowledge Graph Experts”, in Findings of *Annual Meeting of the Association for Computational Linguistics* (ACL), 2022.
- C64 @Yu, W., Zhu, C., Fang, Y., Yu, D., Wang, S., Xu, Y., Zeng, M., **Jiang, M.** “Dict-BERT: Enhancing Language Model Pre-training with Dictionary”, in Findings of *Annual Meeting of the Association for Computational Linguistics* (ACL), 2022.
- C63 \*Kuebler, J., @Tong, L., **Jiang, M.** “Multi-Round Parsing-based Multiword Rules for Scientific Knowledge Extraction”, in Proceedings of *IEEE International Conference on Big Knowledge* (ICBK), 2021.
- C62 @Wang, D., @Zhao, T., Chawla, N.V., **Jiang, M.** “Dynamic Attributed Graph Prediction with Conditional Normalizing Flows”, in Proceedings of *International Conference on Data Mining* (ICDM), 2021. (acceptance rate 20.0% = 198/990)
- C61 @Yu, W., Zhu, C., @Zhao, T., Guo, Z., **Jiang, M.** “Sentence-Permuted Paragraph Generation”, in Proceedings of *Conference on Empirical Methods in Natural Language Processing* (EMNLP), 2021. (Long, Poster; acceptance rate 25.6% = 650/2540)

- C60 \*Dong, X., @Yu, W., Zhu, C., **Jiang, M.** “Injecting Entity Types into Entity-Guided Text Generation”, in Proceedings of *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2021. (Short, Oral; acceptance rate 6.2% = 66/1060)
- C59 @Zhao, T., \*Ni, B., @Yu, W., Guo, Z., Shah, N., **Jiang, M.** “Action Sequence Augmentation for Early Graph-based Anomaly Detection”, in Proceedings of *ACM International Conference on Information and Knowledge Management (CIKM)*, 2021. (acceptance rate 21.7% = 271/1251)
- C58 @Zeng, Q., Lin, J., Yu, W., Cleland-Huang, J., **Jiang, M.** “Enhancing Taxonomy Completion with Concept Generation via Fusing Relational Representations”, in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2021. (acceptance rate 15.4% = 238/1541)
- C57 **Jiang, M.** “Cross-Network Learning with Partially Aligned Graph Convolutional Networks”, in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2021. (acceptance rate 15.4% = 238/1541)
- C56 @Yu, W., Wu, L., @Zeng, Q., Deng, Y., Mahindru, R., Guven, S., **Jiang, M.** “Technical Question Answering across Tasks and Domains”, in Proceedings of *Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT)*, 2021. (acceptance rate 19.5% = 350/1797)
- C55 Zhu, C., Hinthorn, W., Xu, R., @Zeng, Q., Zeng, M., Huang, X., **Jiang, M.** “Enhancing Factual Consistency of Abstractive Summarization”, in Proceedings of *Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT)*, 2021. (acceptance rate 19.5% = 350/1797)
- C54 @Wang, D., Shiralkar, P., Lockard, C., Huang, B., Dong, X.L., **Jiang, M.** “TCN: Table Convolutional Network for Web Table Interpretation”, in Proceedings of *The Web Conference (TheWebConf)*, 2021. (acceptance rate 20.6% = 357/1736)
- C53 Guo, Z., Zhang, C., @Yu, W., Herr, J., Wiest, O., **Jiang, M.**, Chawla, N.V. “Few-Shot Graph Learning for Molecular Property Prediction”, in Proceedings of *The Web Conference (TheWebConf)*, 2021. (acceptance rate 20.6% = 357/1736)
- C52 Lin, J., Liu, Y., @Zeng, Q., **Jiang, M.**, Cleland-Huang, J. “Traceability Transformed: Generating More Accurate Links with Pre-trained BERT Models”, in Proceedings of *International Conference on Software Engineering (ICSE)*, 2021. (acceptance rate 22.4% = 138/615, selected for **ACM SIGSOFT Distinguished Paper Award**)
- C51 @Zhao, T., Liu, Y., Woodford, O., Neves, L., **Jiang, M.**, Shah, N. “Data Augmentation for Graph Neural Networks”, in Proceedings of *AAAI Conference on Artificial Intelligence (AAAI)*, 2021. (acceptance rate 21.4% = 1692/7911)
- C50 Schnur, J., Karl, R., Garcia-Martinez, A., **Jiang, M.**, Chawla, N.V. “Imputing Growth Snapshot Similarity in Early Childhood Development: A Tensor

- Decomposition Approach”, in Proceedings of *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM), 2020. (acceptance rate 19.4% = 111/572)
- C49 Jiang, T., Zhang, N., Liu, M., **Jiang, M.**, Liu, T., Qin, B. “Use of Internal Knowledge: Biomedical Literature Search Liberated From External Resources”, in Proceedings of *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM), 2020. (acceptance rate 19.4% = 111/572)
- C48 Syed, M., @Wang, D., **Jiang, M.**, Conway, O., Juneja, V., Subramanian, S., Chawla, N.V. “Overcoming Data Sparsity in Predicting User Characteristics from Behavior through Graph Embeddings”, in Proceedings of *The IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (ASONAM), 2020.
- C47 @Yu, W., Wu, L., Deng, Y., Mahindru, R., @Zeng, Q., Guven, S., **Jiang, M.** “A Technical Question Answering System with Transfer Learning”, in Proceedings of *Conference on Empirical Methods in Natural Language Processing* (EMNLP), 2020. (demo)
- C46 @Zeng, Q., @Yu, W., \*Yu, M., @Jiang, T., Weninger, T., **Jiang, M.** “Tri-Train: Automatic Pre-fine Tuning between Pre-training and Fine-tune Training for SciNER”, in Findings of *Conference on Empirical Methods in Natural Language Processing* (EMNLP), 2020. (acceptance rate 34.6% = (754+520)/3677)
- C45 Zhang, C., Yu, L., Saebi, M., **Jiang, M.**, Chawla, N.V. “Few-Shot Multi-Hop Relation Reasoning over Knowledge Bases”, in Findings of *Conference on Empirical Methods in Natural Language Processing* (EMNLP), 2020. (acceptance rate 34.6% = (754+520)/3677)
- C44 Guo, Z., @Yu, W., Zhang, C., **Jiang, M.**, Chawla, N.V. “GraSeq: Graph and Sequence Fusion Learning for Molecular Property Prediction”, in Proceedings of *ACM International Conference on Information and Knowledge Management* (CIKM), October 2020. (acceptance rate 21% = 193/920)
- C43 @Zhao, T., \*Deng, C., \*Yu, K., @Jiang, T., @Wang, D., **Jiang, M.** “Error-bounded Graph Anomaly Loss for GNNs”, in Proceedings of *ACM International Conference on Information and Knowledge Management* (CIKM), October 2020. (acceptance rate 21% = 193/920)
- C42 Liu, Y., Lin, J., @Zeng, Q., **Jiang, M.**, Cleland-Huang, J. “Towards Semantically Guided Traceability”, in Proceedings of *IEEE International Requirements Engineering Conference* (RE), August 2020.
- C41 @Wang, D., **Jiang, M.**, Syed, M., Conway, O., Juneja, V., Subramanian, S., Chawla, N.V. “Calendar Graph Neural Networks for Modeling Time Structures in Spatiotemporal User Behaviors”, in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2020. (oral, acceptance rate 5.8% = 44/756)
- C40 @Yu, W., Wu, L., @Zeng, Q., Tao, S., Deng, Y., **Jiang, M.** “Crossing Variational Autoencoders for Answer Retrieval”, in Proceedings of *Annual Meeting of the Association for Computational Linguistics* (ACL), July 2020.

- C39 **Jiang, M.** “Improving Situational Awareness with Collective Artificial Intelligence over Knowledge Graphs”, in Proceedings of *Artificial Intelligence and Machine Learning for Multi-Domain Operations Applications II* in *SPIE Defense + Commercial Sensing* Symposium, April 2020. (oral)
- C38 @Yu, W., \*Yu, M., @Zhao, T., **Jiang, M.** “Identifying Referential Intention with Heterogeneous Contexts”, in Proceedings of *The Web Conference* (TheWebConf), April 2020. (acceptance rate 19% = 217/1129)
- C37 @Yu, W., \*Peng, W., \*Shu, Y., @Zeng, Q., **Jiang, M.** “Experimental Evidence Extraction in Data Science with Hybrid Table Features and Ensemble Learning”, in Proceedings of *The Web Conference* (TheWebConf), April 2020. (acceptance rate 19% = 217/1129, selected for **Best Poster Award** at the 14th Annual Poster Contest at ND CSE)
- C36 Tang, P., **Jiang, M.**, Xia, N., Pitera, J., Welser, J., Chawla, N.V. “Multi-label Patent Categorization with Non-local Attention-based Graph Convolutional Network”, in Proceedings of *AAAI Conference on Artificial Intelligence* (AAAI), February 2020. (acceptance rate 20.6% = 1591/7737)
- C35 Zhang, C., Yao, H., **Jiang, M.**, Li, Z., Chawla, N.V. “Few-Shot Knowledge Base Completion”, in Proceedings of *AAAI Conference on Artificial Intelligence* (AAAI), February 2020. (acceptance rate 20.6% = 1591/7737)
- C34 Yao, H., Zhang, C., Wei, Y., **Jiang, M.**, Wang, S., Chawla, N.V., Li, Z. “Graph Few-shot Learning via Knowledge Transfer”, in Proceedings of *AAAI Conference on Artificial Intelligence* (AAAI), February 2020. (acceptance rate 20.6% = 1591/7737)
- C33 @Ding, Y., @Wang, D., Weninger, T., **Jiang, M.** “Preserving Composition and Crystal Structure Information of Chemical Compounds in Atomic Embedding”, in Proceedings of *IEEE International Conference on Big Data* (BigData), December 2019. (poster)
- C32 @Jiang, T., \*Zhang, Z., @Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “CTGA: Graph-based Biomedical Literature Search”, in Proceedings of *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM), November 2019. (acceptance rate 18% = 98/543)
- C31 @Jiang, T., @Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “Multi-input Multi-output Sequence Labeling for Joint Extraction of Fact and Condition Tuples from Scientific Text” in Proceedings of *Conference on Empirical Methods in Natural Language Processing* (EMNLP), November 2019. (acceptance rate 23% = 465/2022)
- C30 Wang, T., Xu, X., Xiong, J., **Jiang, M.**, Shi, Y. “MSU-Net: Multiscale Statistical U-Net for Real-time 3D Cardiac MRI Video Segmentation” in Proceedings of *International Conference on Medical Image Computing and Computer Assisted Intervention* (MICCAI), October 2019. (acceptance rate 31% = 536/1729)
- C29 @Jiang, T., @Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “The Role of Condition: A Novel Scientific Knowledge Graph Representation and Construction Model” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2019. (acceptance rate 14.2% = 170/1200)

- C28 @Wang, D., @Jiang, T., Chawla, N.V., **Jiang, M.** “TUBE: Embedding Behavior Outcomes for Predicting Success” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2019. (acceptance rate 9.2% = 110/1200, selected for **Best Paper Award** at the Annual Meeting of the International Society for Data Science and Analytics)
- C27 \*Yu, W., Li, Z., @Zeng, Q., **Jiang, M.** “Tablepedia: Automating PDF Table Reading in an Experimental Evidence Exploration and Analytic System” in Proceedings of *The Web Conference (TheWebConf)*, May 2019. (demo)
- C26 @Wang, X., @Zhang, H., @Li, Q., Shi, Y., **Jiang, M.** “A Novel Unsupervised Approach for Precise Temporal Slot Filling from Incomplete and Noisy Temporal Contexts” in Proceedings of *The Web Conference (TheWebConf)*, May 2019. (acceptance rate 18.0% = 225/1247, selected for **Best Poster Award** at the 13th Annual Poster Contest at ND CSE)
- C25 @Zhao, T., \*Malir, M., **Jiang, M.** “Actionable Objective Optimization for Suspicious Behavior Detection on Large Bipartite Graphs” in Proceedings of *IEEE International Conference on Big Data (BigData)*, December 2018. (acceptance rate 18.9% = 98/518)
- C24 Tao, F., Zhang, C., Chen, X., **Jiang, M.**, Hanratty, T., Kaplan, L., Han, J. “Doc2Cube: Allocating Documents to Text Cube without Labeled Data” in Proceedings of *IEEE International Conference on Data Mining (ICDM)*, November 2018. (acceptance rate 11.1% = 105/948)
- C23 Ding, Y., Liu, J., Xiong, J., **Jiang, M.**, Shi, Y. “Optimizing Boiler Control in Real-Time with Machine Learning for Sustainability” in Proceedings of *ACM International Conference on Information and Knowledge Management (CIKM)*, October 2018. (acceptance rate 26.0% = 34/130)
- C22 Zhao, S., **Jiang, M.**, Liu, M., Qin, B., Liu, T. “CausalTriad: Toward Pseudo Causal Relation Discovery and Hypotheses Generation from Medical Text Data” in Proceedings of *ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics (BCB)*, August 2018. (acceptance rate 31.1% = 46/148)
- C21 @Wang, D., **Jiang, M.**, @Wang, X., @Zhao, T., @Zeng, Q., Chawla, N.V. “A Project Showcase for Planning Research Work towards Publishable Success” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2018. (demo)
- C20 Zhang, C., Tao, F., Chen, X., Shen, J., **Jiang, M.**, Sadler, B., Vanni, M., Han, J. “TaxoGen: Constructing Topical Concept Taxonomy by Adaptive Term Embedding and Clustering” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2018. (acceptance rate 10.9% = 107/983)
- C19 **Jiang, M.**, Li, Q., Zhang, X., Qu, M., Hanratty, T., Gao, J., Han, J. “TruePIE: Discovering Reliable Patterns in Pattern-Based Information Extraction” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2018. (acceptance rate 10.9% = 107/983)
- C18 @Wang, D., **Jiang, M.**, @Zeng, Q., @Eberhart, Z., Chawla, N.V. “Multi-Type Itemset Embedding for Learning Behavior Success” in Proceedings of *ACM*

- SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2018. (acceptance rate 10.9% = 107/983)
- C17 Zhao, S., **Jiang, M.**, Yuan, Q., Qin, B., Liu, T., Zhai, C.X. “ContextCare: Incorporating Contextual Information Networks to Representation Learning in Medical Forum Data” in Proceedings of *International Joint Conference on Artificial Intelligence (IJCAI)*, August 2017. (acceptance rate 26.0% = 660/2540)
- C16 **Jiang, M.**, Shang, J., Cassidy, T., Ren, X., Kaplan, L., Hanratty, T., Han, J. “MetaPAD: Meta Patten Discovery from Massive Text Corpora” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2017. (acceptance rate 13.7% = 130/748)
- C15 Kuang, K., Cui, P., Li, B., **Jiang, M.**, Yang, S., Wang, F. “Estimating Treatment Effect in the Wild via Differentiated Confounder Balancing” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2017. (acceptance rate 13.7% = 130/748)
- C14 Ren, X., Shen, J., Qu, M., Wang, X., Wu, Z., Zhu, Q., **Jiang, M.**, Tao, F., Sinha, S., Liem, D., Ping, P., Weinshilboum, R., Han, J. “LifeNet: A Structured Network-Based Knowledge Exploration and Analytics System for Life Sciences” in Proceedings of *Annual Meeting of the Association for Computational Linguistics (ACL)*, July 2017. (demo)
- C13 Kuang, K., Cui, P., Li, B., **Jiang, M.**, Yang, S., Wang, F. “Treatment Effect Estimation with Data-Driven Variable Decomposition” in Proceedings of *AAAI Conference on Artificial Intelligence (AAAI)*, February 2017. (acceptance rate 24.6% = 638/2590)
- C12 Kuang, K., **Jiang, M.**, Cui, P., Yang, S. “Steering Social Media Promotions with Effective Strategies” in Proceedings of *IEEE International Conference on Data Mining (ICDM)*, November 2016. (acceptance rate 19.6% = 177/904)
- C11 Gui, H., Liu, J., Tao, F., **Jiang, M.**, Norick, B., Han, J. “Large-Scale Embedding Learning in Heterogeneous Event Data” in Proceedings of *IEEE International Conference on Data Mining (ICDM)*, November 2016. (acceptance rate 19.6% = 177/904)
- C10 **Jiang, M.**, Faloutsos, C., Han, J. “CatchTartan: Representing and Summarizing Dynamic Multicontextual Behaviors” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2016. (acceptance rate 8.9% = 70/784)
- C9 **Jiang, M.**, Cui, P., Yuan, N.J., Xie, X., Yang, S. “Little is Much: Bridging Cross-Platform Behaviors through Overlapped Crowds” in Proceedings of *AAAI Conference on Artificial Intelligence (AAAI)*, February 2016. (acceptance rate 25.8% = 550/2132)
- C8 **Jiang, M.**, Beutel, A., Cui, P., Hooi, B., Yang, S., Faloutsos, C. “A General Suspiciousness Metric for Dense Blocks in Multimodal Data” in Proceedings of *IEEE International Conference on Data Mining (ICDM)*, November 2015. (acceptance rate 18.1% = 146/807)
- C7 **Jiang, M.**, Cui, P., Wang, F., Xu, X., Zhu, W., Yang, S. “FEMA: Flexible Evolutionary Multi-Faceted Analysis for Dynamic Behavioral Pattern Discovery” in Proceedings of *ACM SIGKDD International Conference on Knowledge*



*Discovery and Data Mining* (KDD), August 2014. (acceptance rate 14.6% = 151/1036)

- C6 **Jiang, M.**, Cui, P., Beutel, A., Faloutsos, C., Yang, S. “CatchSync: Catching Synchronized Behavior in Large Directed Graphs” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2014. (**best paper finalist** and invited to TKDD special issue; acceptance rate 14.6% = 151/1036)
- C5 **Jiang, M.**, Cui, P., Beutel, A., Faloutsos, C., Yang, S. “Inferring Strange Behavior from Connectivity Pattern in Social Networks” in Proceedings of *Pacific-Asia Conference on Knowledge Discovery and Data Mining* (PAKDD), April 2014. (acceptance rate 10.8% = 40/371)
- C4 **Jiang, M.**, Cui, P., Beutel, A., Faloutsos, C., Yang, S. “Detecting Suspicious Following Behavior in Multimillion-Node Social Networks” in Proceedings of *International Conference on World Wide Web* (WWW), April 2014. (poster)
- C3 **Jiang, M.**, Cui, P., Wang, F., Yang, Q., Zhu, W., Yang, S. “Social Recommendation across Multiple Relational Domains” in Proceedings of *ACM International Conference on Information and Knowledge Management* (CIKM), October 2012. (acceptance rate 13.4% = 146/1088)
- C2 **Jiang, M.**, Cui, P., Liu, R., Yang, Q., Wang, F., Zhu, W., Yang, S. “Social Contextual Recommendation” in Proceedings of *ACM International Conference on Information and Knowledge Management* (CIKM), October 2012. (acceptance rate 13.4% = 146/1088)
- C1 Liu, L., Tang, J., Han, J., **Jiang, M.**, Yang, S. “Mining Topic-Level Influence in Heterogeneous Networks” in Proceedings of *ACM International Conference on Information and Knowledge Management* (CIKM), October 2010. (acceptance rate 13.3% = 126/945)

*Journal Papers* (8 IEEE Trans. on Knowledge & Data Eng. (TKDE), etc.)

- J31 @Wang, D., @Zhao, T., @Yu, W., Chawla, N.V., **Jiang, M.** “Deep Multimodal Complementarity Learning”, under review at *IEEE Transactions on Neural Networks and Learning Systems*. In press. (IF=8.793)
- J30 Gu, S., **Jiang, M.**, Guzzi, P.H., Milenkovic, T. “Modeling Multi-scale Data via a Network of Networks”, *Bioinformatics*. In press. (IF=6.937)
- J29 @Yu, W., Zhu, C., \*Li, Z., Hu, Z., Wang, Q., Ji, H., **Jiang, M.** “A Survey of Knowledge-Enhanced Text Generation”, *ACM Computing Surveys*. In press. (IF=10.282)
- J28 **Jiang, M.**, Jung, T., Karl, R., @Zhao, T. “Federated Dynamic Graph Neural Networks with Secure Aggregation for Video-based Distributed Surveillance”, *ACM Transactions on Intelligent Systems and Technology*. In press. (IF=2.861)
- J27 \*Chou, D., **Jiang, M.** “A Survey on Data-Driven Network Intrusion Detection”, *ACM Computing Surveys*. 54:9, 1-36, December 2022. (IF=10.282)
- J26 @Zhao, T., @Jiang, T., Shah, N., **Jiang, M.** “A Synergistic Approach for Graph Anomaly Detection with Pattern Mining and Feature Learning”, *IEEE Transactions on Neural Networks and Learning Systems*. Early access. (IF=8.793)

- J25 @Wang, D., \*Zhang, Z., \*Ma, Y., @Zhao, T., @Jiang, T., Chawla, N.V., **Jiang, M.** “Modeling Co-evolution of Attributed and Structural Information in Graph Sequence”, *IEEE Transactions on Knowledge and Data Engineering*. Early access. (IF=6.977)
- J24 Zhao, S., **Jiang, M.**, Qin, B., Liu, T., Zhai, C.X., Wang, F. “Structural and Textual Information Fusion for Symptom and Disease Representation Learning”, *IEEE Transactions on Knowledge and Data Engineering*. Early access. (IF=6.977)
- J23 Syed, M., @Wang, D., **Jiang, M.**, Conway, O., Juneja, V., Subramanian, S., Chawla, N.V. “Unified Representation of Twitter and Online News using Graph and Entities”, *Frontiers in Big Data, section Big Data Networks*, August 2021.
- J22 @Wang, D., @Zeng, Q., Chawla, N.V., **Jiang, M.** “Modeling Complementarity in Behavior Data with Multi-Type Itemset Embedding”, *ACM Transactions on Intelligent Systems and Technology*. 12:4, 1-25, August 2021. (IF=2.861)
- J21 @Jiang, T., @Zeng, Q., @Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “Biomedical Knowledge Graphs Construction from Conditional Statements” *IEEE/ACM Transactions on Computational Biology and Bioinformatics*. 18:3, 823-835, May-June 2021. (IF=3.015)
- J20 Zhang, C., Yao, H., Yu, L., Huang, C., Song, D., **Jiang, M.**, Chen, H., Chawla, N.V. “Inductive Contextual Relation Learning for Personalization”, *ACM Transactions on Information Systems*. 39:3, 1-22, May 2021. (IF=2.312)
- J19 Liu, J., Xu, X., **Jiang, M.**, Shi, Y. “Binarizing Weights Wisely for Edge Intelligence: Guide for Partial Binarization of Deconvolution-Based Generators” *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*. 39:12, 4748-4759, December 2020. (IF=2.168)
- J18 Liu, Z., **Jiang, M.**, Luo, T. “Leverage Electron Properties to Predict Phonon Properties via Transfer Learning for Semiconductors” *Science Advances*. 6:45, eabd1356, November 2020. (IF=12.530)
- J17 Zhou, S., Hu, Z., Gu, W., **Jiang, M.**, Chen, M., Hong, Q., Booth, C. “Combined Heat and Power System Intelligent Economic Dispatch: A Deep Reinforcement Learning Approach” *International Journal of Electrical Power and Energy Systems*. 120, September 2020. (IF=3.588)
- J16 @Wang, X., **Jiang, M.** “Precise Temporal Slot Filling via Truth Finding with Data-Driven Commonsense” *Knowledge and Information Systems*. 1-27, July 2020. (IF=2.936)
- J15 **Jiang, M.**, Ammerman, B.A., @Zeng, Q., Jacobucci, R., Brodersen, A. “Phrase-level Pairwise Topic Modeling to Uncover Helpful Peer Responses to Online Suicidal Crises” *Humanities & Social Sciences Communications* (formerly known as *Nature Palgrave Communications*). 7:36, July 2020.
- J14 Kuang, K., Cui, P., Li, B., **Jiang, M.**, Yang, S. “Treatment Effect Estimation via Differentiated Confounder Balancing and Regression” *ACM Transactions on Knowledge Discovery from Data*. 14:1, 1-25, December 2019. (IF=2.200)
- J13 Zhou, S., Hu, Z., Zhong, Z., He, D., **Jiang, M.** “An Integrated Energy System Operating Scenarios Generator based on Generative Adversarial Network” *Sustainability*. 11:23, 6699, November 2019. (IF=2.576)

- J12 Zhou, S., Hu, Z., Gu, W., **Jiang, M.**, Zhang, X.P. “Artificial Intelligence based Smart Energy Community Management: A Reinforcement Learning Approach” *CSEE Journal of Power and Energy Systems*. 5:1, 1-10, March 2019. (IF=2.680)
- J11 Kuang, K., **Jiang, M.**, Cui, P., Luo, H., Yang, S. “Effective Promotional Strategies Selection in Social Media: A Data-Driven Approach” *IEEE Transactions on Big Data*. 4:4, 487-501, December 2018. (IF=3.344)
- J10 Shang, J., Liu, J., **Jiang, M.**, Ren, X., Voss, C.R., Han, J. “Automated Phrase Mining from Massive Text Corpora” *IEEE Transactions on Knowledge and Data Engineering*. 30:10, 1825-1837, October 2018. (IF=6.977)
- J9 Shang, J., **Jiang, M.**, Tong, W., Xiao, J., Peng, J., Han, J. “DPPred: An Effective Prediction Framework with Concise Discriminative Patterns” *IEEE Transactions on Knowledge and Data Engineering*. 30:7, 1226-1239, July 2018. (IF=6.977)
- J8 Gui, H., Liu, J., Tao, F., **Jiang, M.**, Norick, B., Kaplan, L., Han, J. “Embedding Learning with Events in Heterogeneous Information Networks” *IEEE Transactions on Knowledge and Data Engineering*. 29:11, 2428-2441, July 2017. (IF=6.977)
- J7 **Jiang, M.**, Cui, P., Beutel, A., Faloutsos, C., Yang, S. “Inferring Lockstep Behavior from Connectivity Pattern in Large Graphs” *Knowledge and Information Systems*. 48:2, 399-428, August 2016. (IF=2.936)
- J6 **Jiang, M.**, Cui, P., Beutel, A., Faloutsos, C., Yang, S. “Catching Synchronized Behaviors in Large Networks: A Graph Mining Approach” *ACM Transactions on Knowledge Discovery from Data - Special Issue on SIGKDD 2014*. 10:4, 35:1-35:27, July 2016. (IF=2.200)
- J5 **Jiang, M.**, Beutel, A., Cui, P., Hooi, B., Yang, S., Faloutsos, C. “Spotting Suspicious Behaviors in Multimodal Data: A General Metric and Algorithms” *IEEE Transactions on Knowledge and Data Engineering*. 28:8, 2187-2200, April 2016. (IF=6.977)
- J4 **Jiang, M.**, Cui, P., Yang, S. “Suspicious Behavior Detection: Current Trends and Future Directions” *IEEE Intelligent Systems*. 31:1, 31-39, January 2016. (IF=3.210)
- J3 **Jiang, M.**, Cui, P., Chen, X., Wang, F., Zhu, W., Yang, S. “Social Recommendation with Cross-Domain Transferable Knowledge” *IEEE Transactions on Knowledge and Data Engineering*. 27:11, 3084-3097, November 2015. (IF=6.977)
- J2 **Jiang, M.**, Cui, P., Wang, F., Zhu, W., Yang, S. “Scalable Recommendation with Social Contextual Information” *IEEE Transactions on Knowledge and Data Engineering*. 26:11, 2789-2802, November 2014. (IF=6.977)
- J1 Liu, L., Zhu, F., **Jiang, M.**, Han, J., Sun, L., Yang, S. “Mining Diversity on Social Media Networks” *Multimedia Tools and Applications*. 56:1, 179-205, January 2012. (IF=2.313)

- W15 @Zeng, Q., @Yu, M., @Yu, W., @Jiang, T., **Jiang, M.** “Validating Label Consistency in NER Data Annotation”, in the *Workshop on Evaluation and Comparison of NLP Systems* (Eval4NLP) in conjunction with *Conference on Empirical Methods in Natural Language Processing* (EMNLP), 2021.
- W14 @Wang, D., @Zhao, T., Chawla, N.V., **Jiang, M.** “Evolutionary Graph Normalizing Flows”, in the *International Workshop on Deep Learning on Graphs: Methods and Applications* (DLG) in conjunction with *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), 2021.
- W13 \*Alaphat, A., **Jiang, M.** “SmartFund: Predicting Research Outcomes with Machine Learning and Natural Language Processing”, in the *International Workshop on Big Data Tools, Methods, and Use Cases for Innovative Scientific Discovery* (BTSD) in conjunction with *IEEE International Conference on Big Data* (BigData), 2020. (Regular paper, 10 pages. The first author was a freshman undergraduate when he finished the work. He won \$250 grant funding from the CUSE program.)
- W12 @Wang, D., \*Zhang, Z., \*Ma, Y., @Zhao, T., @Jiang, T., Chawla, N.V., **Jiang, M.** “Learning Attribute-Structure Co-Evolutions in Dynamic Graphs”, in the *Second International Workshop on Deep Learning on Graphs: Methods and Applications* (DLG) in conjunction with *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2020. (selected for **Best Paper Award**)
- W11 @Zhao, T., \*Ni, B., @Yu, W., **Jiang, M.** “Early Fraud Detection with Augmented Graph Learning”, in the *Second International Workshop on Deep Learning on Graphs: Methods and Applications* (DLG) in conjunction with *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2020.
- W10 @Zhao, T., \*Deng, C., \*Yu, K., @Jiang, T., @Wang, D., **Jiang, M.** “GNN-based Graph Anomaly Detection with Graph Anomaly Loss”, in the *Second International Workshop on Deep Learning on Graphs: Methods and Applications* (DLG) in conjunction with *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2020.
- W9 \*Zhou, Y., @Zhao, T., **Jiang, M.** “A Probabilistic Model with Commonsense Constraints for Pattern-based Temporal Fact Extraction”, in the *Workshop on Fact Extraction and Verification* (FEVER) in conjunction with *Annual Meeting of the Association for Computational Linguistics* (ACL), July 2020.
- W8 @Yu, W., Wu, L., Tao, S., Deng, Y., @Zeng, Q., **Jiang, M.** “Generating Helpful Responses for Intelligent Tech Support”, in the *Reasoning for Complex QA Workshop* (RCQA) in conjunction with *AAAI Conference on Artificial Intelligence* (AAAI), February 2020.
- W7 Yao, H., Zhang, C., Wei, Y., **Jiang, M.**, Wang, S., Chawla, N.V., Li, Z. “Graph Few-shot Learning via Knowledge Transfer”, in the *Graph Representation Learning Workshop* (GRL) in conjunction with *Conference on Neural Information Processing Systems* (NeurIPS), November 2019.

- W6 @Zeng, Q., \*Yu, M., @Yu, W., Xiong, J., Shi, Y., **Jiang, M.** “Faceted Hierarchy: A New Graph Type to Organize Scientific Concepts and a Construction Method”, in the *Workshop on Graph-Based Natural Language Processing (TextGraphs)* in conjunction with *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, November 2019.
- W5 \*Ma, Y., @Zeng, Q., @Jiang, T., Cai, L., **Jiang, M.** “A Study of Person Entity Extraction and Profiling from Classical Chinese Historiography”, in the *International Workshop on Entity REtrieval (EYRE)* in conjunction with *ACM International Conference on Information and Knowledge Management (CIKM)*, November 2019.
- W4 @Jiang, T., @Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “Constructing Information-Lossless Biological Knowledge Graphs from Conditional Statements” in the 18th *International Workshop on Data Mining in Bioinformatics (BIOKDD)* in conjunction with *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2019.
- W3 @Wang, D., **Jiang, M.**, @Wang, X., Chawla, N.V., Brunts, P. “Multifaceted Event Analysis on Cross-Media Network Data” in the *International Workshop on Heterogeneous Networks Analysis and Mining (HeteroNAM)* in conjunction with *ACM Conference on Web Search and Data Mining (WSDM)*, February 2018.
- W2 Chen, L.W., Mangipudi, B., Bandlamudi, J., Sehgal, R., Hao, Y., **Jiang, M.** “Integrating Knowledge from Latent and Explicit Features for Triple Scoring—Team Radichio’s Triple Scorer at WSDM Cup 2017” in the 10th *ACM Conference on Web Search and Data Mining Notebook Papers (WSDM)*, February 2017.
- W1 **Jiang, M.** “Catching Social Media Advertisers with Strategy Analysis” in the 1st *International Workshop on Computational Methods for CyberSafety* in conjunction with *ACM International Conference on Information and Knowledge Management (CIKM)*, October 2016.

*Refereed Conference Tutorials*

- T12 Zhu, C., Xu, Y., **Jiang, M.**, @Yu, W., Ren, X., Lin, Y. “Knowledge-Augmented Methods for Natural Language Processing” in the *Annual Meeting of the Association for Computational Linguistics (ACL)*, May 2022.
- T11 @Yu, W., **Jiang, M.**, Hu, Z., Wang, Q., Ji, H., Rajani, N. “Knowledge-Enriched Natural Language Generation”, in the *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, November 2021.
- T10 Zhang, C., Li, J., **Jiang, M.** “Data Efficient Learning on Graphs”, in the *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2021.
- T9 **Jiang, M.**, Shang, J. “Scientific Text Mining and Knowledge Graphs” in the *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2020.
- T8 Zhang, C., **Jiang, M.**, Zhang, X., Ye, Y., Chawla, N.V. “Multi-modal Network Representation Learning: Methods and Applications” in the *ACM SIGKDD*

*International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2020.

- T7 Zhang, C., **Jiang, M.**, Zhang, X., Chawla, N.V. “Multi-modal Network Representation Learning: Methods and Applications” in the *SIAM International Conference on Data Mining (SDM)*, May 2020. (accepted but cancelled due to COVID-19)
- T6 **Jiang, M.**, Kumar, S., Subrahmanian, V.S., Faloutsos, C. “Data-Driven Approaches towards Malicious Behavior Modeling” in the *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2017.
- T5 Shang, J., **Jiang, M.**, Ren, X., Han, J. “Mining Entity-Relation-Attribute Structures from Massive Text Data” in the *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2017.
- T4 Ren, X., **Jiang, M.**, Shang, J., Han, J. “Building Structured Databases of Factual Knowledge from Massive Text Data” in the *ACM SIGMOD International Conference on Management of Data (SIGMOD)*, May 2017.
- T3 Ren, X., **Jiang, M.**, Shang, J., Han, J. “Constructing Structured Information Networks from Massive Text Corpora” in the *International World Wide Web Conference (WWW)*, April 2017.
- T2 **Jiang, M.**, Cui, P., Han, J. “Data-Driven Behavioral Analytics: Observations, Representations and Models” in the *ACM International Conference on Information and Knowledge Management (CIKM)*, October 2016.
- T1 **Jiang, M.**, Cui, P. “Behavior Modeling in Social Networks: From Micro to Macro” in the *IEEE International Conference on Data Mining (ICDM)*, November 2015.

#### *Invited Book Chapters*

- BC3 **Jiang, M.**, Zhang, C., Zhang, X., Shah, N. “Editorial: Computational Behavioral Modeling for Big User Data” *Frontiers in Big Data*, section Big Data Networks, 2022.
- BC2 **Jiang, M.** “Behavior Modeling in Social Networks” *Encyclopedia of Social Network Analysis and Mining*, Springer, New York, NY, 2017.
- BC1 **Jiang, M.**, Cui, P. “Mining User Behaviors in Large Social Networks” Chapter 4, *Big Data in Complex and Social Networks*, Chapman & Hall/CRC Big Data Series, 2016.

#### PUBLICATIONS UNDER REVIEW

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#### *Conference Papers Under Review*

- CR6 @Zhao, T., @Liu, G., Günnemann, S., **Jiang, M.** “Graph Data Augmentation for Graph Machine Learning: A Survey”, under review at *International Joint Conference on Artificial Intelligence (IJCAI)*, 2022.

- CR5 @Zhao, T., Tang, X., Zhang, D., Rao, N., Song, Y., Agrawal, P., Subbian, K., Yin, B., **Jiang, M.** “AutoGDA: Automated Graph Data Augmentation for Node Classification”, under review at *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2022.
- CR4 @Liu, G., @Zhao, T., Xu, J., Luo, T., **Jiang, M.** “Graph Rationalization with Environment-based Augmentations”, under review at *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2022.
- CR3 @Hu, Z., **Jiang, M.** “Solving Math Word Problems Automatically with Heterogeneous Line Graph Transformer for Online Learning”, under review at *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2022.
- CR2 Guo, X., @Zeng, Q., **Jiang, M.**, Yun, X., Long, B., Wu, L. “Automatic Controllable Product Copywriting for E-Commerce”, under review at *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2022.
- CR1 @Zhao, T., @Liu, G., @Wang, D., @Yu, W., **Jiang, M.** “Learning from Counterfactual Graph for Link Prediction”, under review at *International Conference on Machine Learning (ICML)*, 2022.

#### *Journal Papers Under Review*

- JR1 @Zhang, Z., @Yu, W., **Jiang, M.** “Recent Advances of Multi-task Learning in NLP: Regarding Task Relatedness and Training Methods”, under review at *ACL Rolling Review February 2022*.

#### PHD STUDENTS GRADUATED

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**Daheng Wang**, *Graduated July 2021*

Dissertation: *Learning Complementarity and Dynamics for Behavior Modeling*

First employment: *Applied Scientist at Amazon.com*

**Tong Zhao**, *Graduated May 2022*

Dissertation: *Learning to Augment Graph Data*

Awarded Snap Research Fellowship (\$10,000)

Awarded Amazon Post-Intern Fellowship (\$10,000 AWS credit)

First employment: *Research Scientist at Snap Inc.*

#### MASTER STUDENTS GRADUATED

---

**Ms. Xueying Wang**, *Graduated May 2019*

Thesis: *Improving Information Extraction via Truth Finding with Data-Driven Commonsense*

First employment: *Data Scientist at MIT Sloan School of Management*

Current employment: *Data Scientist at FedEx*

**Ms. Bhakti Sharma**, *Graduated July 2020*

Project: *Review Analysis: Analyzing Sentiment and Predicting Rating Score*

*from Amazon Reviews using BERT*

First employment: *Software Engineer at VISO Trust*

**Jianing Li**, *Graduated November 2020*

Project: *Empirical Analysis on Training Source-Domain Models for Transfer Learning to Predict Phonon Properties with Electron Properties*

## PAST STUDENTS SUPERVISED

---

**Eric Zhang**, *Trinity High School Student* (September 2018–July 2020)

**Michael Florin**, *Trinity High School Student* (September 2019–July 2020)

**Ms. Rebekah Fang** and **Ms. Libby Garnett**, *Trinity High School Students* (August 2020–December 2021)

Won the second place in the 2021 Northern Indiana Regional Science and Engineering Fair. Recommended to the 33rd Annual Hoosier Science and Engineering Fair (HSEF).

**Matthew Malir**, *Undergraduate Student* (January–May 2018)

**Ms. Yuhan (Tina) Wu**, *Undergraduate Student* (September 2018–May 2019)

**Xiangyu Dong**, *Undergraduate Student* (September 2019–July 2020)

**Bo Ni**, *Undergraduate Student* (September 2019–July 2021)

Selected for honorable mention for the Computing Research Association’s (CRA) Outstanding Undergraduate Researcher Award for 2021

**Alvin Alaphat**, *Undergraduate Student* (January–May 2020)

**Michael Lee**, *Undergraduate Student* (May 2020–May 2021)

**Ms. Ann Hermann**, *Undergraduate Student* (May 2020–August 2021)

**Joseph Kuebler**, *Undergraduate Student* (August–November 2020)

**Ms. Longqing Chen**, *Undergraduate Student* (September–December 2021)

**Wenhao Yu**, *Visiting Undergraduate Student* (May–August 2018)

**Ms. Yu Shu**, *Visiting Undergraduate Student* (May–August 2018)

**Chuchen Deng**, *Visiting Undergraduate Student* (May–August 2019)

**Yihong Ma**, *Visiting Undergraduate Student* (May–August 2019)

**Ms. Mengxia Yu**, *Visiting Undergraduate Student* (July–August 2019)

**Ms. Kaifeng Yu**, *Visiting Undergraduate Student* (July–August 2019)

**Zhihan Zhang**, *Visiting Undergraduate Student* (July–August 2019)

**Ms. Yang Zhou**, *Visiting Undergraduate Student* (July–August 2019)

**Zaitang Li**, *Visiting Undergraduate Student* (September 2019–July 2020)

**Ms. Xueying Wang**, *Master Student* (January 2018–May 2019)

**Ms. Bhakti Sharma**, *Master Student* (May–July 2020)

**Jianing Li**, *Master Student* (September 2019–November 2020)

**Zijian Hu**, *Visiting Master Student* (July–August 2019)

**Tianwen Jiang**, *Visiting PhD Student* (September 2018–August 2019)



## CURRENT STUDENTS SUPERVISED

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**Jackson Ballow**, *Undergraduate Student* (since September 2021)

**Yunxiang (Ryan) Yan**, *Undergraduate Student* (since September 2021)

**Weike Fang**, *Undergraduate Student* (since January 2022)

**Ryan Pairitz**, *Undergraduate Student* (since January 2022)

**Kekoa Wang**, *Undergraduate Student* (since January 2022)

**Qingkai Zeng**, *Ph.D. Candidate* (since January 2018)

Thesis: *Improving Scientific Information Extraction with Text Generation*

Received Kaneb Center Outstanding TA Award

**Wenhao Yu**, *Ph.D. Student* (since July 2019)

Notre Dame CSE Select Fellowship

**Ms. Lingbo Tong**, *Ph.D. Student* (since August 2020)

Joint Ph.D. in Psychology and Computer Science & Engineering

**Ms. Mengxia Yu**, *Ph.D. Student* (since August 2020)

Notre Dame CSE Select Fellowship

**Gang Liu**, *Ph.D. Student* (since August 2021)

**Zhihan Zhang**, *Ph.D. Student* (since August 2021)

**Eric Inae**, *Ph.D. Student* (since August 2022)

Notre Dame Dean's Fellowship

**Hy Dang**, *Ph.D. Student* (since August 2022)

## TEACHING COURSES

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**CS 412 Introduction to Data Mining**, *University of Illinois* (Summer 2017)

**CSE 40647/60647 Data Science**, *University of Notre Dame* (Fall 2017)

**CSE 40647/60647 Data Science**, *University of Notre Dame* (Spring 2018)

**CSE 40647/60647 Data Science**, *University of Notre Dame* (Fall 2018)

**CSE 40647/60647 Data Science**, *University of Notre Dame* (Fall 2019)

**CSE 60326 Computational Behavior Modeling**, *University of Notre Dame*  
(Spring 2020)

**CSE 40647/60647 Data Science**, *University of Notre Dame* (Fall 2020)

**CSE 60326 Computational Behavior Modeling**, *University of Notre Dame*  
(Spring 2021)

**CSE 40647/60647 Data Science**, *University of Notre Dame* (Fall 2021)

**CSE 60326 Computational Behavior Modeling**, *University of Notre Dame*  
(Spring 2022)

## PROFESSIONAL ACTIVITIES

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### Governmental Service

NIH DABP-PSE-IRAP Panelist (2021)

NSF CISE Panelist (2020, 2022)

### Departmental Service

Graduate admission committee at ND CSE (since 2017)

### Ph.D. Dissertation Committee

**Dr. Maria Glenski**, Notre Dame Comp. Sci. & Eng.

**Dr. Yuan Gong**, Notre Dame Comp. Sci. & Eng.

**Dr. Chao Huang**, Notre Dame Comp. Sci. & Eng.

**Dr. Suhansanu Kumar**, UIUC Computer Science

**Dr. Ann Franchesca Laguna**, Notre Dame Comp. Sci. & Eng.

**Dr. Qi Li**, Notre Dame Comp. Sci. & Eng.

**Dr. Zhiyu Liu**, Notre Dame Electrical Engineering

**Dr. Kenton Murray**, Notre Dame Comp. Sci. & Eng.

**Dr. Alireza Partovi**, Notre Dame Electrical Engineering

**Dr. Mandana Saebi**, Notre Dame Comp. Sci. & Eng.

**Dr. Munira Syed**, Notre Dame Comp. Sci. & Eng.

**Dr. Pamela Bilo Thomas**, Notre Dame Comp. Sci. & Eng.

**Dr. Tianchen Wang**, Notre Dame Comp. Sci. & Eng.

**Dr. Xian Wu**, Notre Dame Comp. Sci. & Eng.

**Dr. Chuxu Zhang**, Notre Dame Comp. Sci. & Eng.

**Dr. Hao Zheng**, Notre Dame Comp. Sci. & Eng.

**Dr. Shenglong Zhu**, Notre Dame Comp. Sci. & Eng.

**Justus Hibshman**, Notre Dame Comp. Sci. & Eng.

**Peixian Liang**, Notre Dame Comp. Sci. & Eng.

**Jinfeng Lin**, Notre Dame Comp. Sci. & Eng.

**Guoqiang Liu**, Notre Dame Biology

**Qing Lu**, Notre Dame Comp. Sci. & Eng.

### Organizing Committee

*2022* Co-Chair, Workshop on Misinformation and Misbehavior Mining on the Web (MIS2)  
at ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)

*2022* Doctoral Consortium Chair, ACM International Conference on Web Search and Data Mining (WSDM)

*2019* Publication Chair, ACM International Conference on Knowledge Management (CIKM)  
Publicity Chair, Int'l Conf. on Computational Data and Social Networks (CSoNet)

*2018* Co-Chair, Workshop on Misinformation and Misbehavior Mining on the Web (MIS2)  
at International Conference on Web Search and Data Mining (WSDM)

*2016* Co-Chair, Special session on Big Behavioral Data Analytics at IEEE International  
Conference on Data Science and Advanced Analytics (DSAA)

### (Senior) Program Committee / Reviewer / Area Chair

ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD):

(PC: 2018–2021, SPC: 2022)

ACM International Conference on Knowledge Management (CIKM):  
(PC: 2017–2019, SPC: 2020–2022)

AAAI Conference on Artificial Intelligence (AAAI):  
(PC: 2017–2021, SPC: 2022)

International Joint Conference on Artificial Intelligence (IJCAI):  
(SPC: 2021)

The Web Conference (WebConf/WWW):  
(PC: 2018–2022)

International Conference on Web Search and Data Mining (WSDM):  
(PC: 2019–2022)

Annual Meeting of the Association for Computational Linguistics (ACL):  
(Reviewer: 2020–2022)

Conference on Empirical Methods in Natural Language Processing (EMNLP):  
(Reviewer: 2018–2020; Area Chair: 2021)

Conference on Neural Information Processing Systems (NeurIPS):  
(Reviewer: 2020–2022)

International Conference on Learning Representations (ICLR):  
(Reviewer: 2021)

SIAM Conference on Data Mining (SDM):  
(PC: 2018–2021)

International Conference on Artificial Intelligence in Medicine (AIME):  
(SPC: 2020)

### **Journal Reviewer**

Data Mining and Knowledge Discovery (*DAMI*)  
Information Sciences (*INS*)  
Information Systems (*InfoSys*)  
Information Processing and Management (*IPM*)  
Knowledge and Information Systems (*KAIS*)  
Neurocomputing (*NEUCOM*)  
PLOS ONE (*PlosOne*)  
Scientific Reports (*SciReports*)  
IEEE Transactions on Big Data (*TBD*)  
ACM Transactions on Intelligent Systems and Technology (*TIST*)  
ACM Transactions on Knowledge Discovery from Data (*TKDD*)  
IEEE Transactions on Knowledge and Data Engineering (*TKDE*)  
Transactions on Information Systems (*TOIS*)  
IEEE Transactions on Neural Networks and Learning Systems (*TNNLS*)