

MENG JIANG, PH.D.

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WORK EXPERIENCE

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

EDUCATION

Ph.D. Tsinghua University, Computer Science 2015
Dissertation: *Modeling Complex User Behaviors on Social Media*
Graduated with honors

B.Eng. Tsinghua University, Computer Science 2010

HONORS AND AWARDS

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

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

GRANTS AND GIFTS

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

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

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

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

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

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

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*)