

Jiawei Zhang

Curriculum Vitae

Academic Surge Building 2075
1124 Crocker Ln
Davis, CA 95618
☎ +1 (312) 823-9343
✉ jiwzhang@ucdavis.edu
<http://www.ifmlab.org>
Last Update: June 3, 2025

Research Interests

Multi-Modal Artificial Intelligence

Multi-Modal Foundation Models; Natural Language Processing; Computer Vision; Graph Neural Network; Stochastic Optimization

Data Mining and Big Data

Data Fusion; Broad Learning; Graph Mining

Applications

Language Models; Video Q&A Autonomous Driving; Fake News Detection; Recommender Systems

Robotics

Vision based Robot Locomotion

Professional Experiences

- 2024–Present **Associate Professor**
Department of Computer Science, University of California, Davis
- 2021–2024 **Assistant Professor**
Department of Computer Science, University of California, Davis
- 2017–2021 **Assistant Professor**
Department of Computer Science, Florida State University
- 2017–Present **Founder and Director**
Information Fusion and Mining Laboratory (IFM Lab)

Education

- 2012–2017 **Ph.D. in Computer Science**
University of Illinois at Chicago, Chicago, IL, USA
- *Thesis:* Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery
 - *Advisor:* Philip S. Yu, Ph.D.
- 2008–2012 **B.S. in Computer Science**
Nanjing University, Nanjing, Jiangsu, China
- *Advisor:* De-Chuan Zhan, Ph.D. and Zhi-Hua Zhou, Ph.D.

Other Research Experiences

- 2013–2017 **Graduate Research Assistant**, *University of Illinois at Chicago*, Chicago, IL
○ Advisor: Philip S. Yu, Ph.D.
- 2016 **Research Intern**, *Yahoo! Research*, Sunnyvale, CA
○ Mentors: Jianhui Chen, Ph.D. and Yi Chang, Ph.D.
- 2015 **Research Intern**, *IBM T. J. Watson Research Center*, Yorktown Heights, NY
○ Mentor: Charu Aggrawal, Ph.D.
- 2014 **Research Intern**, *Microsoft Research*, Mountain View, CA
○ Mentor: Yuanhua Lv, Ph.D.

Awards and Honors

- | | | |
|------|--|-----------------|
| 2025 | Most Influential Paper Award | PAKDD |
| 2023 | Best Short Paper Award Honorable Mention | ACM SIGIR |
| 2020 | Best Student Paper Runner Up Award | IEEE ICDM |
| 2018 | First Year Assistant Professor Award | FSU |
| 2018 | Best Student Paper Runner Up Award | ACM SIGKDD |
| 2016 | Best Student Paper Runner Up Award | IEEE/ACM ASONAM |
| 2016 | SIGIR Travel Award | ACM CIKM |
| 2016 | IEEE Travel Award | IEEE CIC |
| 2015 | SIGKDD Travel Award | ACM SIGKDD |
| 2015 | ICDM Travel Award | IEEE ICDM |
| 2014 | WSDM Travel Award | ACM WSDM |
| 2014 | Travel Award | UIC |

Grant and Project Funding

Funded Grants

4 Funded Proposals, Total Budget \$2.92M, My Share \$1.17M

- 2021-2025 **PI, III: Medium: Collaborative Research: Self-Supervised Recommender System Learning with Application Specific Adaption**
○ NSF Division of Information & Intelligent Systems
○ Personal Share: \$600K/\$1.2M
- 2018-2022 **PI, III: Medium: Collaborative Research: An Extensible Heterogeneous Network Embedding Framework with Application Specific Adaptation**
○ NSF Division of Information & Intelligent Systems
○ Personal Share: \$550K/\$1.2M
- 2018-2019 **sole-PI, CRC: Cyberspace Fake News Article and Creator Detection via a Multi-Perspective Approach**
○ FSU Council on Research and Creativity
○ Personal Share: \$20K

2015-2019 **Senior Personnel, III: Small: Fusion of Heterogeneous Networks for Synergistic Knowledge Discovery**

○ NSF Division of Information & Intelligent Systems

○ Total Budget: \$500K

Course Teaching

2025 Spring **ECS 270: Artificial Intelligence**

Department of Computer Science
UC Davis

2025 Spring **ECS 189G: Deep Learning**

Department of Computer Science
UC Davis

2024 Spring **ECS 289G: Advanced Deep Learning**

Department of Computer Science
UC Davis

2024 Winter **ECS 189G: Deep Learning**

Department of Computer Science
UC Davis

2023 Spring **ECS 289G: Advanced Deep Learning**

Department of Computer Science
UC Davis

2023 Winter **ECS 189G: Deep Learning**

Department of Computer Science
UC Davis

2022 Spring **ECS 289G: Advanced Deep Learning**

Department of Computer Science
UC Davis

2022 Winter **ECS 189G: Deep Learning**

Department of Computer Science
UC Davis

2021 Spring **CIS 5725-0001: Advanced Database Systems**

Department of Computer Science
Florida State University

2020 Fall **COP 4710-0001: Databases**

Department of Computer Science
Florida State University

2020 Spring **CIS 5930-0003: Deep Learning and Applications**
Department of Computer Science
Florida State University

2019 Fall **COP 4710-0001: Databases**
Department of Computer Science
Florida State University

2019 Spring **CIS 5930-0002: Advanced Data Mining**
Department of Computer Science
Florida State University

2018 Fall **COP 4710-0001: Databases**
Department of Computer Science
Florida State University

2018 Spring **CIS 5930-0004: Social Network Mining**
Department of Computer Science
Florida State University

Student Mentoring (* My Students)

Mentored Students

2022–Present **Zizhong Li***

- Current: PhD Student@UC Davis
- Research Topic: NLP and Misinformation
- Collaborated Papers: [8]

2021–Present **Xinhao Xiang***

- Current: PhD Student@UC Davis
- Research Topic: CV and Autonomous Driving
- Collaborated Papers: [4], [164], [165]

2021–Present **Xiao Liu***

- Current: PhD Student@UC Davis
- Research Topic: NLP and Language Models
- Collaborated Papers: [27], [15], [16], [18], [13], [14], [3]

2019–2024 **Haopeng Zhang* (Graduated PhD)**

- Current: Assistant Professor@University of Hawaii at Manoa
- Research Topic: NLP and Document Summarization
- Collaborated Papers: [171], [41], [169], [27], [15], [16], [18], [17], [13], [14], [8]

- 2018–2023 **Lin Meng* (Graduated PhD)**
- Current: Research Scientist@Visa Research
 - Research Topic: Graph Mining
 - Collaborated Papers: [65], [64], [57], [55], [52], [175], [176], [23], [24], [30], [29], [26]
- 2018–2021 **Yuxiang Ren* (Graduated PhD)**
- Current: Researcher@Huawei
 - Research Topic: Text Mining and Graph Mining
 - Collaborated Papers: [64], [58], [52], [51], [42], [32], [53], [126], [36], [37], [38], [39]
- 2023–2023 **Simon Draeger***
- Current: Master Student@UC Davis
 - Research Topic: Computer Vision
- 2021–2022 **Jiebei Cheng***
- Current: Master Student@UC Davis
 - Research Topic: Computer Vision
- 2022–2023 **Ashwitha Kassetty***
- Current: Master Student@UC Davis
 - Research Topic: EEG Mining
- 2022–2022 **Elaine Qian***
- Current: Undergraduate Student@UC Davis
 - Research Topic: TBD
- 2021–2022 **Zhuoheng Li***
- Current: Undergraduate Student@UC Davis
 - Research Topic: Computer Vision
- 2021–2022 **Siqi Wang***
- Current: Undergraduate Student@UC Davis
 - Research Topic: Computer Vision
- 2018–2021 **Haeseung Jeong* (Graduated Master)**
- Current: Master@Florida State University
 - Research Topic: Document Classification
- 2017–2017 **Conying Xia**
- Current: Researcher@Salesforce
 - Research Topic: Network Embedding
 - Collaborated Papers: [80], [170], [171]

2016–2017 **Ye Liu**

- Current: Researcher@Salesforce
- Research Topic: Multiple Aligned Movie Library Analysis
- Collaborated Papers: [75]

2016–2017 **Chenwei Zhang**

- Current: Applied Scientist@Amazon
- Research Topic: Deep Learning Application in Data Mining
- Collaborated Papers: [75], [81], [63], [80], [170]

2015–2016 **Junxing Zhu**

- Current: Assistant Professor@National University of Defense Technology
- Research Topic: User Resolution and Alignment across Networks
- Collaborated Papers: [78], [139], [81], [141]

2014–2016 **Qianyi Zhan**

- Current: Assistant Professor@Jiangnan University
- Research Topic: Information Diffusion and Viral Marketing
- Collaborated Papers: [90], [91], [95], [97], [108], [93], [142], [131], [137], [138]

PhD Thesis Committee

May 2024 **Haopeng Zhang**

- Current: Assistant Professor@University of Hawaii, Manoa
- PhD Thesis: Building Intelligent and Reliable Summarization Systems

May 2024 **Yu Wang**

- Current: PhD@UIC
- PhD Thesis: Behavior Mining for Recommendation

May 2024 **Michael J. Livanos**

- Current: PhD@UC Davis
- PhD Thesis: Advances in Explainable Artificial Intelligence, Fair Machine Learning, and the Intersection Thereof

May 2024 **Xin (Rex) Liu**

- Current: PhD@UC Davis
- PhD Thesis: Human Activity Recognition in Healthcare: Challenges, Approaches and Applications

April 2024 **Hsiao-Ying Lu**

- Current: PhD Candidate@UC Davis
- PhD Qualifying Exam: Visual Analytics for Reasoning Complex Networks

March 2024 **Navaneet Kadur Lakshminarasimha Murthy**

- Current: PhD Candidate@UC Davis
- PhD Qualifying Exam: Efficiency in Computer Vision: From Compute and Memory to Robustness

- Nov. 2023 **Lin Meng**
- Current: PhD Candidate@FSU
 - PhD Defense Exam: Applying Graph Neural Networks to Applications: Brain Disease Detection, Recommendation and Fraud Detection
- Nov. 2023 **Yu Wang**
- Current: PhD Candidate@UIC
 - PhD Prelim Exam: Behavior Mining for Recommendation
- Oct. 2023 **Yuwei Cao**
- Current: PhD Candidate@UIC
 - PhD Prelim Exam: Community Detection with Heterogeneous Information Networks
- Oct. 2023 **Liangwei Yang**
- Current: PhD Candidate@UIC
 - PhD Prelim Exam: Broad Learning for Recommender System
- June 2023 **Michael Livanos**
- Current: PhD Candidate@UC Davis
 - PhD Qualifying Exam: Advances in Explanation and Fairness in Machine Learning
- June 2023 **Xiwei Xuan**
- Current: PhD Candidate@UC Davis
 - PhD Qualifying Exam: Visualization Techniques for Explainable and Trustworthy Artificial Intelligence
- May 2023 **Tao Zhang**
- Current: PhD Candidate@University of Illinois at Chicago
 - PhD Prelim Exam: Towards Intelligent Named Entity Knowledge Transfer in Natural Language Understanding
- May 2023 **Ziwei Fan**
- Current: PhD Candidate@University of Illinois at Chicago
 - PhD Defense Exam: Data Sparsity in Recommender Systems: Collaborative Neighbors Enrichment.
- March 2023 **Lin Meng**
- Current: PhD Candidate@Florida State University
 - PhD Prospectus Exam: Graph-based Applications in Online Platforms: Recommender Systems.
- Feb. 2023 **Haopeng Zhang**
- Current: PhD Candidate@UC Davis
 - PhD Qualifying Exam: Graph Based Approaches for Natural Language Processing.
- Nov. 2022 **Ge Shi**
- Current: PhD Candidate@UC Davis
 - PhD Qualifying Exam: Deep Learning in Neuroimaging: Approaches and Interpretability.
- Nov. 2022 **Ziwei Fan**
- Current: PhD Candidate@University of Illinois at Chicago
 - PhD Prelim Exam: Data Sparsity in Recommender Systems: Collaborative Neighbors Enrichment.

- Sept. 2022 **Yongheng Wang**
- Current: PhD Candidate@ UC Davis
 - PhD Qualifying Exam: Development of programmable RNA adaptors for delivery of RNA therapeutics.
- Aug. 2022 **Dongjie Chen**
- Current: PhD Candidate@ UC Davis
 - PhD Qualifying Exam: Privacy-Aware Synthetic Multimedia Data Generation.
- Aug. 2022 **Rex Liu**
- Current: PhD Candidate@ UC Davis
 - PhD Qualifying Exam: Human activity Recognition in Healthcare: Challenges, Approaches and Applications.
- May 2022 **Zhiwei Liu**
- Current: Researcher@Salesforce
 - PhD Prelim Exam: Deep Learning for Recommender System: Towards Structures and Sequences.
- Feb. 2022 **He Huang**
- Current: Researcher@Salesforce
 - PhD Defense Exam: Label Scarcity in Computer Vision: From Long Tail to Zero-shot.
- Dec. 2021 **Congying Xia**
- Current: Researcher@Salesforce
 - PhD Defense Exam: Natural Language Understanding for Conversational Agents.
- Nov. 2021 **Hongjing Zhang**
- Current: PhD Candidate@ UC Davis
 - PhD Defense Exam: Modernizing Deep Unsupervised Learning with Human Experience.
- Nov. 2021 **Yuxiang Ren**
- Current: Researcher@Huawei
 - PhD Defense Exam: Graph Neural Network and Applications.
- Oct. 2021 **Zhiwei Liu**
- Current: PhD Candidate@University of Illinois at Chicago
 - PhD Prelim Exam: Deep Learning for Recommender System: Towards Structures and Sequences.
- April 2021 **Yuxiang Ren**
- Current: PhD Candidate@Florida State University
 - PhD Prospectus Exam: Mining on Graphs: Graph Neural Network and Applications.
- Feb. 2021 **Congying Xia**
- Current: PhD Candidate@University of Illinois at Chicago
 - PhD Prelim Exam: Natural Language Understanding for Conversational Agents.
- Feb. 2021 **He Huang**
- Current: PhD Candidate@University of Illinois at Chicago
 - PhD Prelim Exam: Label Scarcity in Computer Vision: From Long Tail to Zero-shot.

- Feb. 2021 **Daniel Bis**
- Current: PhD Candidate@Florida State University
 - PhD Area Exam: Layered Multistep Bidirectional Long Short-Term Memory Networks for Biomedical Word Sense Disambiguation.
- October 2019 **Soumak Mookherjee**
- Current: PhD Candidate@Florida State University
 - PhD Area Exam: Generalization of Deep Neural Network.
- April 2019 **Lei Zheng**
- Current: PhD Candidate@University of Illinois at Chicago
 - PhD Dissertation Defense Talk: Deep Learning for Recommender Systems
- April 2019 **Chenwei Zhang**
- Current: PhD Candidate@University of Illinois at Chicago
 - PhD Dissertation Defense Talk: Structured Knowledge Discovery from the Massive Text Corpus
- Feb 2019 **Xinyue Liu**
- Current: PhD Candidate@Worcester Polytechnic Institute
 - PhD Dissertation Defense Talk: On Graph Discovery and Synthesis
- Feb 2019 **Chenwei Zhang**
- Current: PhD Candidate@University of Illinois at Chicago
 - PhD Preliminary Talk: Structured Knowledge Discovery from Massive Text Corpus.
- October 2018 **Lei Zheng**
- Current: PhD Candidate@University of Illinois at Chicago
 - PhD Preliminary Talk: Recommender System Build with Deep Learning.
- April 2018 **Xinyue Liu**
- Current: PhD Candidate@Worcester Polytechnic Institute
 - PhD Defense Proposal Talk: Synergistic Graph Discovery and Generation
- March 2018 **Haixu Wang**
- Current: PhD Candidate@Florida State University
 - PhD Candidacy Talk: Network Origins of Aggregate Volatility and Macroeconomic Tail Risks
- Master Exam Committee**
- March 2023 **Baris Sen**
- Current: Master Student@University of California, Davis
 - Project: Exploring Diffusion Probabilistic Neural Networks for Co-speech Gesture Generation
- Feb 2022 **Yang Xue**
- Current: Master Student@University of California, Davis
 - Project: GIRAFFEE HD: A High-Resolution 3D-aware Generative Model
- Dec 2021 **Celine Shenny**
- Current: Master Student@University of California, Davis
 - Project: LDA Topic Modeling for Covid-19 News Articles

- Dec 2021 **Jailan Sabet**
- Current: Master Student@University of California, Davis
 - Project: Classification of EEG Signals Utilizing Convolutional Neural Networks
- March 2021 **Haeseung Jeong**
- Current: Master Student@Florida State University
 - Defense Talk: Hierarchical Attention Network for Fake News Detection
- July 2018 **Yu Zhang**
- Current: Master Student@Florida State University
 - Defense Talk: Big Data and Movie Recommender System

Research Publication

Academic No. citations: 9,501, h-index: 46 (By June 3, 2025)

Impact (Source: <https://scholar.google.com/citations?user=7AkZSJAAAAJ&hl=en>)

Conference and Workshop Papers (* My PhD Students)

- [1] Xi Chen, Yateng Tang, Jiarong Xu, **Jiawei Zhang**, Siwei Zhang, Sijia Peng, Xuehao Zheng, Yun Xiong. Rethinking Time Encoding via Learnable Transformation Functions. In: Proceedings of the Forty-Second International Conference on Machine Learning (*ICML '25*). July 13–July 19, 2025. Vancouver, Canada.
- [2] Zizhong Li, Haopeng Zhang and **Jiawei Zhang**. Intermediate Distillation: Data-Efficient Distillation from Black-Box LLMs for Information Retrieval. In: Proceedings of the 2025 International Joint Conference on Neural Networks (*IJCNN '25*). June 30–July 5, 2025. Rome, Italy.
- [3] Xiao Liu, Jianfeng Lin and **Jiawei Zhang**. Beyond Text: Unveiling Multimodal Proficiency of Large Language Models with MultiAPI Benchmark. In: Proceedings of the 1st Workshop on Towards Knowledgeable Language Models (KnowLLM 2024). Bangkok, Thailand.
- [4] Xinhao Xiang, Simon Dräger and **Jiawei Zhang**. 3DiffusionDet: Diffusion Model for 3D Object Detection with Robust LiDAR-Camera Fusion. In: the 1st Workshop on Multimodalities for 3D Scenes at the IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024 (*CVPR M3DS '24*). June 17–21, 2024. Seattle WA, USA.
- [5] Liangwei Yang, Hengrui Zhang, Zihe Song, **Jiawei Zhang**, Weizhi Zhang, Jing Ma and Philip S Yu. Beyond Directed Acyclic Computation Graph with Cyclic Neural Network. NeuroAI: Fusing Neuroscience and AI for Intelligent Solutions Workshop of the 38rd Conference on Neural Information Processing Systems (*NIPS '24*), Vancouver, Canada, December 10-15, 2024.
- [6] Siwei Zhang, Xi Chen, Yun Xiong, Xixi Wu, Yao Zhang, Yongrui Fu, Yinglong Zhao and **Jiawei Zhang**. Towards Adaptive Neighborhood for Advancing Temporal

Interaction Graph Modeling. In: Proceedings of the 30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (*KDD '24*). August 25–29, 2024. Barcelona, Spain.

- [7] Xixi Wu, Kaiyu Xiong, Yun Xiong, Xiaoxin He, Yao Zhang, Yizhu Jiao and **Jiawei Zhang**. ProCom: A Few-shot Targeted Community Detection Algorithm. In: Proceedings of the 30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (*KDD '24*). August 25–29, 2024. Barcelona, Spain.
- [8] Zizhong Li*, Haopeng Zhang* and **Jiawei Zhang**. Unveiling the Magic: Investigating Attention Distillation in Retrieval-augmented Generation. In: Proceedings of the 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics (*NAACL '24*). June 16–21, 2024. Mexico City, Mexico.
- [9] Xiao Liu, Jianfeng Lin, and Jiawei Zhang. Beyond Text: Unveiling Multimodal Proficiency of Large Language Models with MultiAPI Benchmark. In Proceedings of the 1st Workshop on Towards Knowledgeable Language Models (*KnowLLM 2024*), pages 32–44, Bangkok, Thailand. Association for Computational Linguistics.
- [10] Xi Chen, Yun Xiong, Siwei Zhang, **Jiawei Zhang**, Yao Zhang, Shiyang Zhou, Xixi Wu, Mingyang Zhang, Tengfei Liu and Weiqiang Wang. DTFormer: A Transformer-Based Method for Discrete-Time Dynamic Graph Representation Learning. In: Proceedings of the 33rd ACM International Conference on Information and Knowledge Management (*CIKM '24*). October 21–25 2024. Boise, Idaho, USA.
- [11] Kaiyu Xiong, Yucheng Jin, Yun Xiong and **Jiawei Zhang**. GetCom: An Efficient and Generalizable Framework for Community Detection. In: Proceedings of the 33rd ACM International Conference on Information and Knowledge Management (*CIKM '24*). October 21–25 2024. Boise, Idaho, USA.
- [12] Yingying Wang, Yun Xiong, Xixi Wu, Xiangguo Sun, **Jiawei Zhang** and Guangyong Zheng. DDIPrompt: Drug-Drug Interaction Event Prediction based on Graph Prompt Learning. In: Proceedings of the 33rd ACM International Conference on Information and Knowledge Management (*CIKM '24*). October 21–25 2024. Boise, Idaho, USA.
- [13] Haopeng Zhang*, Xiao Liu*, **Jiawei Zhang**. Extractive Summarization via ChatGPT for Faithful Summary Generation. In: Findings of the 2023 Conference on Empirical Methods in Natural Language Processing (*EMNLP Findings '23*), December 6–10, 2023. Resorts World Convention Centre, Singapore.
- [14] Haopeng Zhang*, Xiao Liu*, **Jiawei Zhang**. Summlt: Iterative Text Summarization via ChatGPT. In: Findings of the 2023 Conference on Empirical Methods in Natural Language Processing (*EMNLP Findings '23*), December 6–10, 2023. Resorts World Convention Centre, Singapore.
- [15] Haopeng Zhang*, Xiao Liu* and **Jiawei Zhang**. DiffuSum: Generation Enhanced Extractive Summarization with Diffusion. In: Findings of the 61st Annual Meeting

of the Association for Computational Linguistics (*ACL Findings '23*), July 9-14, 2023. Toronto, Canada.

- [16] Haopeng Zhang*, Xiao Liu* and **Jiawei Zhang**. Contrastive Hierarchical Discourse Graph for Scientific Document Summarization. The 4th workshop on Computational Approaches to Discourse at the 61st Annual Meeting of the Association for Computational Linguistics (*ACL CODI '23*), July 9-14, 2023. Toronto, Canada.
- [17] Haopeng Zhang*, Sangwoo Cho, Kaiqiang Song, Xiaoyang Wang, Hongwei Wang, **Jiawei Zhang**, Dong Yu. Unsupervised Multi-Document Summarization with Holistic Inference. In: Proceedings of the 3rd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 13th International Joint Conference on Natural Language Processing (*IJCNLP-AAACL '23*), November 1-4, 2023. Bali, Indonesia.
- [18] Haopeng Zhang*, Xiao Liu* and **Jiawei Zhang**. Extractive Summarization via ChatGPT for Faithful Summary Generation. Foundations and Applications in Large-scale AI Models Workshop at KDD 2023 conference (*KDD LLM4AI '23*), August 6-10, 2023. Long Beach, CA, USA.
- [19] Ziwei Fan, Ke Xu, Zhang Dong, Hao Peng, **Jiawei Zhang** and Philip S. Yu. Graph Collaborative Signals Denoising and Augmentation for Recommendation. In: Proceedings of the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval (*SIGIR '23*), July 23-27, 2023, Taipei, Taiwan. Hybrid Conference. (**Best Short Paper Award Honorable Mention**)
- [20] Xixi Wu, Yun Xiong, Yao Zhang, Yizhu Jiao, **Jiawei Zhang**, Yangyong Zhu, Philip S. Yu. ConsRec: Learning Consensus Behind Interactions for Group Recommendation. In: Proceedings of the 2023 ACM Web Conference (*Web '23*), April 30-May 4, 2023, Austin, TX, USA.
- [21] Xixi Wu, Yun Xiong, Yao Zhang, Yizhu Jiao and **Jiawei Zhang**. Dual Intents Graph Modeling for User-centric Group Discovery. In: Proceedings of the 32nd ACM International Conference on Information and Knowledge Management (*CIKM '23*), October 21-25, 2023, University of Birmingham and Eastside Rooms, UK.
- [22] Siwei Zhang, Yun Xiong, Yao Zhang, Xixi Wu, Yiheng Sun and **Jiawei Zhang**. iLoRE: Dynamic Graph Representation with Instant Long-term Modeling and Re-occurrence Preservation. In: Proceedings of the 32nd ACM International Conference on Information and Knowledge Management (*CIKM '23*), October 21-25, 2023, University of Birmingham and Eastside Rooms, UK.
- [23] Lin Meng*, Xiaonan Zhang, **Jiawei Zhang**, Hesham Mostafa and Marcel Nassar. Generative Graph Augmentation for Minority Class in Fraud Detection. In: Proceedings of the 32nd ACM International Conference on Information and Knowledge Management (*CIKM '23*), October 21-25, 2023, University of Birmingham and Eastside Rooms, UK.
- [24] Lin Meng*, Yuxiang Ren* and **Jiawei Zhang**. Decoupling Graph Neural Network with Contrastive Learning for Fraud Detection. In: Proceedings of the 28th Inter-

national Conference on Database Systems for Advanced Applications (*DASFAA '23*), April 17-20, 2023, Tianjin, China.

- [25] Beichen Kang, Xiaosu Wang, Yun Xiong, Yao Zhang, Chaofan Zhou, Yangyong Zhu, **Jiawei Zhang** and Chunlei Tang. Automatic ICD Coding Based on Segmented ClinicalBERT with Hierarchical Tree Structure Learning. In: Proceedings of the 28th International Conference on Database Systems for Advanced Applications (*DASFAA '23*), April 17-20, 2023, Tianjin, China.
- [26] Lin Meng*, Xiaonan Zhang and **Jiawei Zhang**. Location-Adaptive Generative Graph Augmentation for Fraud Detection. In: Proceedings of the IEEE Conference on Cognitive Machine Intelligence (*CogMI '23*), Nov 1-3, 2023, Atlanta, GA, USA.
- [27] Haopeng Zhang*, Xiao Liu* and **Jiawei Zhang**. HEGEL: Hpyergraph Transformer for Long Document Summarization. In: Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (*EMNLP '22*), Abu Dhabi, December 7-11, 2022.
- [28] Li Sun, Zhongbao Zhang, Junda Ye, Hao Peng, **Jiawei Zhang**, Sen Su and Philip S. Yu. A Self-supervised Mixed-curvature Graph Neural Network. In: Proceedings of the 36th AAAI Conference on Artificial Intelligence (*AAAI '22*), Virtual Conference, February 22 - March 1, 2022.
- [29] Lin Meng*, Haoran Yang and **Jiawei Zhang**. Stage Evolving Graph Neural Network based Dynamic Recommendation with Life Cycles. In: Proceedings of the International Joint Conference on Neural Networks (*IJCNN '22*), Padova, Italy. July 18-23, 2022.
- [30] Zhiwei Liu, Lin Meng*, Fei Jiang, **Jiawei Zhang** and Philip S. Yu. Deoscillated Graph Collaborative Filtering. Workshop on Topology, Algebra, and Geometry in Machine Learning (TAG-ML). In: 39th International Conference on Machine Learning (*ICML '22*), Baltimore, MD, USA. July 17-23, 2022.
- [31] Xing Jia, Yun Xiong, **Jiawei Zhang**, Yao Zhang, Yangyong Zhu, and Philip S. Yu. Few-Shot Radiology Report Generation via Knowledge Transfer and Multi-modal Alignment. In: Proceedings of the 2022 International Conference on Bioinformatics and Biomedicine (*BIBM '22*), Las Vegas, NV, December 6-8, 2022.
- [32] Yuxiang Ren*, Hao Zhu, **Jiawei Zhang**, Peng Dai and Liefeng Bo. EnsemFDet: An Ensemble Approach to Fraud Detection based on Bipartite Graph. In: Proceedings of the 37th IEEE International Conference on Data Engineering (*ICDE '21*), Chania Crete, Greece. April 19-22, 2021.
- [33] Li Sun, Zhongbao Zhang, **Jiawei Zhang**, Feiyang Wang, Hao Peng, Sen Su and Philip S. Yu. Hyperbolic Variational Graph Neural Network for Modeling Dynamic Graphs. In: Proceedings of the 35th AAAI Conference on Artificial Intelligence (*AAAI '21*), Virtual Conference, February 2-9, 2021.

- [34] Ziwei Fan, Zhiwei Liu, **Jiawei Zhang**, Yun Xiong, Lei Zheng and Philip Yu. Continuous-Time Sequential Recommendation with Temporal Graph Collaborative Transformer. In: Proceedings of the 30th ACM International Conference on Information and Knowledge Management. (*CIKM '21*), Online Conference Hosted in Gold Coast, Queensland, Australia. November 1-5, 2021.
- [35] Qingqin Wang, Yun Xiong, Yao Zhang, **Jiawei Zhang** and Yangyong Zhu. AutoCite: Multi-Modal Representation Fusion for Contextual Citation Generation. In: Proceedings of the 14th ACM International Conference on Web Search and Data Mining (*WSDM '21*), Jerusalem, Israel. March 8-12, 2021.
- [36] Yuxiang Ren*, Jiyang Bai and **Jiawei Zhang**, Peng Dai and Liefeng Bo. Label Contrastive Coding based Graph Neural Network for Graph Classification. In: Proceedings of the 26th International Conference on Database Systems for Advanced Applications(*DASFAA '21*), Hybrid Conference. April 11-14, 2021.
- [37] Jiyang Bai, Yuxiang Ren* and **Jiawei Zhang**. Ripple Walk Training: A Subgraph-based training framework for Large and Deep Graph Neural Networks. In: Proceedings of the International Joint Conference on Neural Networks (*IJCNN '21*), Virtual Event, July 18-22, 2021.
- [38] Jiyang Bai, Yuxiang Ren* and **Jiawei Zhang**. BGADAM: Boosting based Genetic-Evolutionary ADAM for Deep Convolutional Neural Network Optimization. In: Proceedings of the International Joint Conference on Neural Networks (*IJCNN '21*), Virtual Event, July 18-22, 2021.
- [39] Yuxiang Ren* and **Jiawei Zhang**. Fake News Detection on News-Oriented Heterogeneous Information Networks through Hierarchical Graph Attention. In: Proceedings of the International Joint Conference on Neural Networks (*IJCNN '21*), Virtual Event, July 18-22, 2021.
- [40] Xing Jia, Yun Xiong, **Jiawei Zhang**, Blackley Suzanne, Yangyong Zhu and Chunlei Tang. Radiology Report Generation for Rare Diseases via Few-shot Transformer. In: Proceedings of the 2021 International Conference on Bioinformatics and Biomedicine (*BIBM '21*), Virtual Event, December 9-12, 2021.
- [41] Haopeng Zhang* and **Jiawei Zhang**. Text Graph Transformer for Document Classification. In: Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (*EMNLP '20*). November 16-20, 2020.
- [42] Yuxiang Ren*, Bo Wang, **Jiawei Zhang** and Yi Chang. Adversarial Active Learning based Heterogeneous Graph Neural Network for Fake News Detection. In: Proceedings of the 20th IEEE International Conference on Data Mining (*ICDM '20*), Sorrento, Italy, November 17-20, 2020.
- [43] Li Sun, Zhongbao Zhang, **Jiawei Zhang**, Feiyang Wang, Yang Du, Sen Su and Philip S. Yu. PERFECT: A Hyperbolic Embedding for Joint Social Network Alignment. In: Proceedings of the 20th IEEE International Conference on Data Mining (*ICDM '20*), Sorrento, Italy, November 17-20, 2020.

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Invited Talks

- Apr. 2022 Deep Learning on Graphs: Graph Neural Network Research and Applications, Jilin University
- Feb. 2021 Deep Learning on Graphs: Graph Neural Network Research and Applications, University of California, Davis
- Feb. 2019 Broad Learning through Fusions, University of Pittsburgh
- Jan. 2019 Broad Learning through Fusions, Worcester Polytechnic Institute
- Dec. 2018 Broad Learning through Fusions, Fudan University
- Dec. 2018 Broad Learning through Fusions, Beijing University of Posts and Telecommunications
- Nov. 2017 An Introduce to Network Embedding Methods, Florida State University
- Oct. 2017 Social Network Mining: An Introduction, Florida State University
- April 2017 Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery, Florida State University
- March 2017 Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery, University of Louisiana at Lafayette
- March 2017 Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery, Indiana University Purdue University Indianapolis
- Feb. 2017 Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery, Indiana University Bloomington
- Feb. 2017 Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery, Rensselaer Polytechnic Institute
- Feb. 2017 Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery, University Alabama at Birmingham
- Feb. 2017 Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery, New Jersey Institute of Technology
- Feb. 2017 Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery, Temple University
- Aug. 2016 Link Prediction with Cardinality Constraint, Yahoo! Research
- May 2016 Fusion of Heterogeneous Social Networks for Synergistic Knowledge Discovery
- Aug. 2014 Enterprise Social Network Analysis and Social Link Recommendation, Microsoft Research

Professional Services

Funding Review Panelist

- Swiss National Science Foundation Panel 2019.
- US National Science Foundation, IIS Medium Panel 2019, 2020, 2023.

Transaction Information Director and Specialist

- ACM Transactions on Knowledge Discovery from Data (TKDD) August 2014 to September 2017.

Conference Session Chair

- IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, Session 7C: Adversarial/Trust 2, *ASONAM 2016*

Workshop Organizing Committee

- The 3rd Heterogeneous information network analysis and applications (HENA): 2019 CIKM
- The 4th Heterogeneous information network analysis and applications (HENA): 2021 KDD

Senior Program Committee

- AAAI Conference on Artificial Intelligence (AAAI): 2021, 2022

Program Committee

- SIGKDD Conference of Knowledge Discovery and Data Mining (*KDD*): 2018, 2019, 2020, 2021, 2022, 2024
- SIGIR Conference on Research and Development in Information Retrieval (*SIGIR*): 2020, 2021, 2022
- International World Wide Web Conference (*WWW*): 2017, 2018, 2019, 2020
- International Conference on Computer Vision (*ICCV*): 2025
- International Joint Conference on Artificial Intelligence (*IJCAI*): 2018, 2019, 2022
- AAAI Conference on Artificial Intelligence (AAAI): 2019, 2020
- Conference on Empirical Methods in Natural Language Processing (*EMNLP*): 2024
- Joint International Conference on Computational Linguistics, Language Resources and Evaluation (*LREC-COLING*): 2024
- International Conference on Data Mining (*ICDM*): 2017, 2018, 2019, 2020, 2021, 2022, 2023
- International Conference on Information and Knowledge Management (*CIKM*): 2015, 2016, 2017, 2018, 2019, 2021, 2022, 2023
- International Conference on Web Search and Data Mining (*WSDM*): 2021, 2022
- SIAM Data Mining Conference (*SDM*): 2018, 2019, 2020, 2021, 2022
- IEEE International Conference on Big Data (*BigData*): 2021, 2022

Journal Reviewer

- IEEE Transactions on Knowledge and Data Engineering *TKDE* 2014, 2017, 2019

- ACM Transactions on Knowledge Discovery from Data *TKDD* 2013, 2015, 2016

References

Available upon request