

# Lecheng Zheng

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EDUCATION	<b>University of Illinois at Urbana-Champaign</b> , Champaign, Illinois, USA	Aug 2019 – Present
	<ul style="list-style-type: none"><li>▪ PhD in Computer Science</li><li>▪ Advisor: Jingrui He</li></ul>	
	<b>Arizona State University</b> , Tempe, Arizona, USA	Aug 2017 – May 2019
	<ul style="list-style-type: none"><li>▪ PhD in Computer Science</li><li>▪ Advisor: Jingrui He</li></ul>	
	<b>University of Kansas</b> , Lawrence, Kansas, USA	Aug 2012 – Dec 2016
	<ul style="list-style-type: none"><li>▪ Bachelor of Computer Science</li><li>▪ Advisor: Jun (Luke) Huan</li></ul>	
RESEARCH AND INDUSTRY EXPERIENCE	<b>iSAIL Lab, University of Illinois at Urbana-Champaign</b> , Champaign, USA	Aug 2019 – Present
	<ul style="list-style-type: none"><li>▪ Research Assistant<ul style="list-style-type: none"><li>• Research on heterogeneous machine learning, self-supervised learning, graph mining</li><li>• Advisor: Prof. Jingrui He</li></ul></li></ul>	
	<b>NEC laboratories America</b> , New Jersey, USA	May 2023 – Aug 2023
	<ul style="list-style-type: none"><li>▪ Research Intern<ul style="list-style-type: none"><li>• Research on multi-modality learning, root cause analysis</li><li>• Advisor: Dr. Zhengzhang Chen</li></ul></li></ul>	
	<b>STAR Lab, Arizona State University</b> , Champaign, USA	Aug 2017 – Aug 2019
PUBLICATIONS	<ul style="list-style-type: none"><li>▪ <b>Conference Papers</b></li></ul>	
	1. <b>Lecheng Zheng</b> , John Birge, Haiyue Wu, Yifang Zhang, Jingrui He. Cluster Aware Graph Anomaly Detection. The Web Conference 2025 (WWW-2025 Oral Presentation).	
	2.Mengfei Lan, <b>Lecheng Zheng</b> , Shufan Ming, Halil Kilicoglu. Multi-label Sequential Sentence Classification via Large Language Model. The 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP-2024).	
	3. <b>Lecheng Zheng</b> , Baoyu Jing, Zihao Li, Hanghang Tong, Jingrui He. Heterogeneous Contrastive Learning for Foundation Models and Beyond. ACM: SIGKDD Conference on Knowledge Discovery and Data Mining (KDD-2024).	
	4. <b>Lecheng Zheng</b> , Zhengzhang Chen, Jingrui He, Haifeng Chen. MULAN: Multi-modal Causal Structure Learning and Root Cause Analysis for Microservice Systems. The Web Conference 2024 (WWW-2024 Oral Presentation).	
	5. <b>Lecheng Zheng</b> , Dawei Zhou, Hanghang Tong, Jiejun Xu, Yada Zhu, Jingrui He. FairGen: Towards Fair Graph Generation. IEEE International Conference on Data Engineering (ICDE-2024).	
	6. <b>Lecheng Zheng</b> , Yada Zhu, Jingrui He. Fairness-aware Multi-view Clustering. SIAM: SIAM International Conference on Data Mining (SDM-2023).	
	7.Dawei Zhou*, <b>Lecheng Zheng*</b> , Dongqi Fu, Jiawei Han, Jingrui He. MentorGNN: Deriving Curriculum for Pre-Training GNNs. ACM International Conference on Information and Knowledge Management (CIKM-2022). (*: Equal contribution).	
	8. <b>Lecheng Zheng</b> , Jinjun Xiong, Yada Zhu, Jingrui He. Contrastive Learning with complex heterogeneity. ACM: SIGKDD Conference on Knowledge Discovery and Data Mining (KDD-2022).	
	9. <b>Lecheng Zheng</b> , Yu Cheng, Hongxia Yang, Nan Cao, Jingrui He. Deep Co-Attention Network for Multi-View Subspace Learning. The Web Conference 2021 (WWW-2021).	
	10.Jianbo Li, <b>Lecheng Zheng</b> , Yada Zhu, and Jingrui He. Outlier Impact Characterization for Time Series Data, The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI-2021).	

11. Dawei Zhou, **Lecheng Zheng**, Jiawei Han, Jingrui He. A Data-driven Graph Generative Model for Temporal Interaction Networks. ACM: SIGKDD Conference on Knowledge Discovery and Data Mining (KDD-2020).
12. Dawei Zhou, **Lecheng Zheng**, Jianbo Li, Yada Zhu, Jingrui He. Domain Adaptive Multi-Modality Neural Attention Network for Financial Forecasting. The Web Conference 2020 (WWW-2020).
13. **Lecheng Zheng**, Yu Cheng, Jingrui He. Deep Multimodality Model for Multi-task Multi-view Learning. SIAM: SIAM International Conference on Data Mining 2019 (SDM-2019).

▪ **Journal Papers**

1. **Lecheng Zheng\***, Dongqi Fu\*, Ross Maciejewski, Jingrui He. DrGNN: Deep Residual Graph Neural Network with Contrastive Learning. TMLR, 2024. (\*: Equal contribution).
2. Dawei Zhou\*, **Lecheng Zheng\***, Jiejun Xu, Jingrui He. Misc-GAN: A Multi-Scale Generative Model for Graphs. Frontier, 2019. (\*: Equal contribution).

▪ **Preprint Papers**

1. **Lecheng Zheng**, Zhengzhang Chen, Haifeng Chen, Jingrui He. Online Multi-modal Root Cause Analysis. arXiv preprint.
2. Ziwei Wu\*, **Lecheng Zheng\***, Yuancheng Yu, Ruizhong Qiu, John Birge, Jingrui He. Fair Anomaly Detection For Imbalanced Groups. arXiv preprint.
3. **Lecheng Zheng**, John R Birge, Yifang Zhang, Jingrui He. Towards Multi-view Graph Anomaly Detection with Similarity-Guided Contrastive Clustering. arXiv preprint.
4. **Lecheng Zheng**, Zhengzhang Chen, Dongjie Wang, Chengyuan Deng, Reon Matsuoka, and Haifeng Chen. LEMMA-RCA: A Large Multi-modal Multi-domain Dataset for Root Cause Analysis. arXiv preprint.

GUEST LECTURE	▪ <b>University of Rochester</b>	Dec 2024
	• Heterogeneous Machine Learning	
	▪ <b>Virginia Tech</b>	Apr 2022
	• Contrastive Learning: A Heterogeneous Perspective	
INVITED TALK	▪ <b>Virginia Tech</b>	Jan 2025
	• Heterogeneous Machine Learning: Characterization, Generation and Comprehension	
	▪ <b>NEC Laboratories America</b>	Dec 2024
	• Heterogeneous Machine Learning: Characterization, Generation and Comprehension	
	▪ <b>Clemson University</b>	Feb 2024
	• Understanding Heterogeneous Machine Learning: Characterization, Generation and Comprehension	
TEACHING EXPERIENCE	▪ <b>Tufts University</b>	Aug 2021
	• Generative Model for Static and Dynamic Graphs	
	▪ <b>Teaching Assistant</b>	Jan 2022 – May 2022
	• CS 412 Data Mining	
	• Prof. Hanghang Tong	
	▪ <b>Lecturer</b>	Jan 2022
TUTORIAL EXPERIENCE	• 2 hours lecture at Winter Camp by School of Information Science at UIUC	
	• Topic: Exploring Rare Categories on Graphs: Representation, Inference, and Generalization	
	▪ <b>KDD Tutorial</b>	Aug 2024
	• Topic: Heterogeneous Contrastive Learning for Foundation Models and Beyond	
	▪ <b>SDM Tutorial</b>	Apr 2023
	• Topic: Contrastive Learning: A Heterogeneous Perspective	
	▪ <b>IJCAI Tutorial</b>	Jan 2021
	• Topic: Exploring Rare Categories on Graphs: Representation, Inference, and Generalization	

<b>GRANT EXPERIENCE</b>	<ul style="list-style-type: none"> <li>Participate in proposal writing for the project at IBM-Illinois Discovery Accelerator Institute: “Climate Runtime: Programming Fabric for Geospatial Representation, Fusion and Federation” (PI: Prof. Jingrui He, Co-PI: Prof. Hanghang Tong, Prof. Lisa Ainsworth, \$1,248,476)</li> <li>Participate in proposal writing for the project at IBM-Illinois Discovery Accelerator Institute: “Deep Climate Anomaly Modeling and Impact Analysis” (PI: Prof. Jingrui He, Co-PI: Prof. Hanghang Tong, \$75,000).</li> <li>Participate in proposal writing for the project at C3.AI: ”Multi-Facet Rare Event Modeling of Adaptive Insider Threats” (PI: Prof. Jingrui He, CO-PI: Prof. John Birge, \$200,000)</li> </ul>	
<b>ACADEMIC AWARDS</b>	UIUC CS PhD Fellowship	2023
	SDM Student Travel Award	2023
	CIKM Student Travel Award	2022
	WWW Student Travel Award	2021
	KDD Student Registration Award	2021
<b>SERVICE</b>	KDD Student Registration Award	2020
	<b>PROGRAM COMMITTEE IN CONFERENCES</b>	
	1.Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)	2025
	2.The 28th International Conference on Artificial Intelligence and Statistics (AISTATS)	2025
	3.The ACM Web Conference (TheWebConf)	2025
	4.The Thirteenth International Conference on Learning Representations (ICLR)	2025
	5.The 39th AAAI Conference on Artificial Intelligence (AAAI)	2025
	6.The 18th ACM International Conference on Web Search and Data Mining (WSDM)	2025
	7.SIAM International Conference on Data Mining (SDM)	2025
	8.2024 IEEE International Conference on Big Data (BigData)	2024
	9.The 33rd ACM International Conference on Information and Knowledge Management (CIKM)	2024
	10.The 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP)	2024
	11.Thirty-Eighth Annual Conference on Neural Information Processing Systems (NeurIPS)	2024
	12.Forty-first International Conference on Machine Learning (ICML)	2024
	13.The 33rd International Joint Conference on Artificial Intelligence (IJCAI)	2024
	14.Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)	2024
	15.The ACM Web Conference (TheWebConf)	2024
	16.The Twelfth International Conference on Learning Representations (ICLR)	2024
	17.The 17th ACM International Conference on Web Search and Data Mining (WSDM)	2024
	18.SIAM International Conference on Data Mining (SDM)	2024
	19.2023 IEEE International Conference on Big Data (BigData)	2023
	20.The 32nd ACM International Conference on Information and Knowledge Management (CIKM)	2023
	21.Thirty-seventh Annual Conference on Neural Information Processing Systems (NeurIPS)	2023
	22.The 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)	2023
	23.The 32nd International Joint Conference on Artificial Intelligence (IJCAI)	2023
	24.The ACM Web Conference (TheWebConf)	2023
	25.SIAM International Conference on Data Mining (SDM)	2023
	26.Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI)	2023
	27.The 16th ACM International Conference on Web Search and Data Mining (WSDM)	2023
	28.The 31st ACM International Conference on Information and Knowledge Management (CIKM)	2022
	29.The 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)	2022
	30.The 31st International Joint Conference on Artificial Intelligence (IJCAI)	2022

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| 31.The ACM Web Conference (TheWebConf)  | 2022 |
| 32.Thirty-Sixth AAAI Conference on Artificial Intelligence (AAAI)                       | 2022 |
| 33.SIAM International Conference on Data Mining (SDM)                                   | 2022 |
| 34.The 30th ACM International Conference on Information and Knowledge Management (CIKM) | 2021 |
| 35.The 30th International Joint Conference on Artificial Intelligence (IJCAI)           | 2021 |
| 36.Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI)                       | 2021 |
| 37.2020 IEEE International Conference on Big Data (BigData)                             | 2020 |
| 38.2019 IEEE International Conference on Big Data (BigData)                             | 2019 |
| 39.2018 IEEE International Conference on Big Data (BigData)                             | 2018 |
- **EXTERNAL REVIEWER**
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|--|------|
| 1.Conference on Computer Vision and Pattern Recognition                                  | 2023 |
| 2.The Eleventh International Conference on Learning Representations (ICLR)               | 2023 |
| 3.The 45th ACM Conference on Research and Development in Information Retrieval (SIGIR)   | 2022 |
| 4.Thirty-sixth Annual Conference on Neural Information Processing Systems (NeurIPS)      | 2022 |
| 5.The Tenth International Conference on Learning Representations (ICLR)                  | 2022 |
| 6.Thirty-fifth Annual Conference on Neural Information Processing Systems (NeurIPS)      | 2021 |
| 7.The 9th International Conference on Learning Representations (ICLR)                    | 2021 |
| 8.The ACM Web Conference (TheWebConf)  | 2021 |
| 9.The 44th ACM Conference on Research and Development in Information Retrieval (SIGIR)   | 2021 |
| 10.The Thirty-eighth International Conference on Machine Learning (ICML)                 | 2021 |
| 11.The 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)           | 2021 |
| 12.SIAM International Conference on Data Mining (SDM)                                    | 2021 |
| 13.The ACM Web Conference (TheWebConf)   | 2020 |
| 14.The 23rd International Conference on Artificial Intelligence and Statistics (AISTATS) | 2020 |
| 15.The 43th ACM Conference on Research and Development in Information Retrieval (SIGIR)  | 2020 |
| 16.The Thirty-seventh International Conference on Machine Learning (ICML)                | 2020 |
| 17.The 26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)           | 2020 |
| 18.2020 International Conference on Data Mining (ICDM)                                   | 2020 |
| 19.The 13th ACM International Conference on Web Search and Data Mining (WSDM)            | 2020 |
| 20.The ACM Web Conference (TheWebConf)   | 2019 |
| 21.2019 International Conference on Data Mining (ICDM)                                   | 2019 |
| 22.The 28th International Joint Conference on Artificial Intelligence (IJCAI)            | 2019 |
| 23.The 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)           | 2019 |
- **JOURNAL REVIEWER**
- 1.The ACM Transactions on Knowledge Discovery from Data
  - 2.IEEE Transactions on Knowledge and Data Engineering
  - 3.Data Mining and Knowledge Discovery
  - 4.The Frontier
  - 5.Engineering Applications of Artificial Intelligence
  - 6.IEEE Transactions on Circuits and Systems for Video Technology
- **STUDENT VOLUNTEER**
- 1.KDD-UC Mentor for ACM Mentorship Program, 2023
  - 2.CS Grad Ambassadors for Fall'22 grad recruiting at UIUC, 2022
  - 3.CS Grad Ambassadors for Fall'20 grad recruiting at UIUC, 2020
  - 4.KDD student volunteer, 2022
  - 5.KDD student volunteer, 2021