Yu Wang

CONTACT INFORMATION Office: 337 Deschutes Hall Personal Homepage: https://yuwang0103.github.io/ 1585 E 13th Ave LinkedIn: https://www.linkedin.com/in/YuWangGraphML/

Eugene, OR 97401 GitHub: https://github.com/YuWVandy
Twitter: https://twitter.com/YuWVandy

E-mail: yuwang@uoregon.edu Google Scholar: https://scholar.google.com/citations?user=XPCmiz4AAAAJ

BIO

Yu Wang is an Assistant Professor in the Department of Computer and Information Science at the University of Oregon. Before that, he received his Ph.D. in the Computer Science Department at Vanderbilt University under the supervision of Dr. Tyler Derr.

Yu conducts research in the areas of data mining and machine learning, with emphasis on network analysis, machine learning on graphs, and data-centric and multi-purpose-driven AI for social goodness with applications in information retrieval, infrastructure systems, and biochemistry. He received numerous honors and awards, including the sole recipient of Vanderbilt's Graduate Leadership Anchor Award for Research in 2023, the 2023-2024 Recipient of the Vanderbilt Outstanding Doctoral Student Award, the Best Paper Award in 2020 Smokey Mountain Data Challenge Competition by ORNL, first-author of Vanderbilt's C.F.Chen Best Paper Award in 2022, first-author of the Best Paper Award at GLFrontiers Workshop at Neurips'23, Best Doctoral Forum Poster Runner-ups at SDM'24, along with two of his works being selected among the top-10 Most Influential CIKM'22 and WWW'23 Papers by Paper Digest. He actively contributed to top conferences/journals in the field of data mining and machine learning, both in terms of publishing such as NeurIPS, ICLR, AAAI, KDD, WWW, CIKM, WSDM, TKDD, TIST and serving as a PC member/reviewer/organizer such as KDD, ICML, AAAI (ICWSM), WWW, WSDM, CIKM, TKDD, and TNNLS. He has contributed to organizing workshops in WSDM'22/24, presenting tutorials in SDM'24/CIKM'24, and chairing the travel award program at CIKM'24. For more details, please visit his website at https://yuwang0103.github.io/

POSITIONS

Tenure Track Assistant Professor, University of Oregon

Sep 2024- Present

Department of Computer Science

Teaching and Research Assistant, Ph.D., Vanderbilt University

Aug 2019 – Aug 2024

Department of Computer Science

EDUCATION

Vanderbilt University

Master and Doctor of Philosophy (Ph.D.) in Computer Science

May 2024

- Master Degree Awarded in May 2024
- Dissertation: Data-quality-aware Graph Machine Learning
- · Advisor: Dr. Tyler Derr
- Research areas: Data-centric Graph Machine Learning, Multi-Purpose-Driven Graph Machine Learning, Machine Learning for Social Goodness including Chemistry/Infrastructure/Information Retrieval
- Cumulative GPA: 3.95 / 4.00

Harbin Institute of Technology

Bachelor of Engineering (**B.E.**)

May 2019

- Thesis: Machine Learning for Bridge Crack Detection
- Advisor: Dr. Qingfei Gao
- Cumulative GPA: 4.0 / 4.0, Rank: 1/92
- First-class People's Scholarship×4, National Scholarship×2

RESEARCH EXPERIENCE

Network and Data Science Lab, Vanderbilt University

Dec 2020 - Aug 2024

Ph.D. Program, Research/Teaching Assistant

Research Interests: Data mining, Machine Learning, Network Analysis, Graph Neural Networks (GNNs)
 Data-centric Graph Machine Learning (Structure/Imbalance/Limited Data).
 Multi-Purpose-Driven Graph Machine Learning (Fairness/Diversity/Reliability).
 Graph-ML for Chemistry/Infrastructure/Information Retrieval Systems

- Publications: ICLR, NeurIPS, KDD×3, WWW×3, AAAI×4, WSDM×2, CIKM×4, ICDMW, LOG, Book-Chapter, TKDD, TKDE, TIST
- · Mentor/Advisor: Dr. Tyler Derr

Document Intelligence Team, Adobe Research

May 2023 – Dec 2023

Research Scientist/Engineer Intern

- Project-1: Knowledge Graph Prompting for Multi-Document Question Answering [paper][demo][news]
- Project-2: Fairness in GNNs [paper]
- Project-3: Graph Verbalization via Topological-aware Positional Encoding [paper]
- · Mentors: Dr. Nedim Lipka, Dr. Ryan Rossi, Dr. Alexa Siu, Dr. Ruiyi Zhang, Manager: Dr. Tong Sun

Recommendation Data Science Team, The Home Depot

May 2022 – Aug 2022

Research Data Scientist

- Project-1: Knowledge Graph-enhanced Session Recommendation [paper]
- Project-2: Prototyping the Knowledge Graph-enhanced Session Recommendation Framework in A/B test.
- Mentors: Dr. Amin Javari, Dr. Walid Shalaby, Manager: Dr. Xiquan Cui

Hiba Baroud Research Group, Vanderbilt University

Aug 2019 - Dec 2020

Ph.D. Program, Research/Teaching Assistant

- Research Interests: Graph Theory, Machine Learning, Statistical Network Models
 Resilience and Risk Analysis of Infrastructure Networks
- Publications: IEEE System Journal/ESREL/SMC2020 Data Competition [news]
- Mentors: Dr. Hiba Baroud, Dr. Jinzhu Yu

Taciroglu Research Group, UCLA-CSST

Jul 2019 - Sep 2019

Undergraduate Summer Researcher

- Project: Designing a modeling analysis tool for automatic bridge generation [poster]
- · Mentors: Dr. Ertugrul Taciroglu, Dr. Barbaros Cetiner

Qingfei Gao Research Group, Harbin Institute of Technology

Oct 2018 – Jul 2019

Undergraduate Researcher

- $\bullet \ \ Project: Improving the existing percolation-based algorithm for bridge crack detection \ [paper]$
- Mentors: Dr. Qingfei Gao

HONORS		
&	AWARDS	

 Outstanding Reviewer at Applied Data Science Track at ECML-PKDD'24 Best Doctoral Forum Poster Runner-Up at SDM'24 Vanderbilt Outstanding Doctoral Student Award Best Paper Award at GLFrontiers Workshop in Neurips'23 	Dec 2024 Apr 2024 Feb 2024 Dec 2023
Vanderbilt Graduate Leadership Anchor Award for Research	May 2023
Vanderbilt's C.F.Chen Best Paper Runner-up Award (as co-author)	May 2023
American Bureau of Shipping Scholarship Award	Jan 2023
 NSF Student Travel Award (To attend ICDM'22) 	Nov 2022
 SIGIR Student Travel Grant (To attend CIKM'22) 	Nov 2022
• NSF Student Registeration&Travel Award (To attend KDD'22/SDM'21) Jun	2022 Mar 2021
Vanderbilt's C.F.Chen Best Paper Award	Apr 2022
IJCAI'21 Volunteers & Grants Program	Aug 2021
IJCAI'20 Volunteers & Grants Program	Jan 2020
Vanderbilt University Graduate School Travel Grant Oct	2020 Nov 2022
• Best Paper Award in 2020 Smoky Mountain Data Challenge Competition by ORNL	Sep 2020
 Outstanding Research and Presentation Skills Award by UCLA-CSST Program 	Aug 2018
• First-class People's Scholarship $\times 4$ Sep 2016 Apr 2017 Sep	2017 Apr 2018
• National Scholarship×2 Sep	2016 Sep 2017
• Second Prize in the National College Student Mathematics Competition	Sep 2017

PUBLICATIONS Please note the following symbols below to signify certain author types in the below lists:

- * | denotes co-first authors
- † denotes *graduate student mentored* by Yu Wang
- †† denotes undergraduate researcher/intern mentored by Yu Wang

Conference Papers (acceptance based on peer review of full paper):

- [C21] Bo Ni[†], **Yu Wang**, Lu Cheng, Erik Blasch, Tyler Derr. "Towards Trustworthy Knowledge Graph Reasoning: An Uncertainty Aware Perspective" 2024. The 39th AAAI Conference on Artificial Intelligence (AAAI), Philadelphia, Pennsylvania, 2025 Acceptance Rate 23.4%
 [Paper][code]
- [C20] Xueqi Cheng*,†, **Yu Wang***, Yuying Zhao[†], Charu Aggarwal, and Tyler Derr. "Edge Classification on Graphs: New Directions in Topological Imbalance" The 18th ACM International Conference on Web Search and Data Mining, 2025.

 Acceptance rate 17.3%

 [Paper][Code]
- [C19] Yunchao Liu[†], Ha Dong, Xin Wang[†], Rocco Moretti, **Yu Wang**, Zhaoqian Su, Jiawei Gu, Bobby Bodenheimer, Charles Weaver, Jens Meiler, Tyler Derr. "WelQrate: Defining the Gold Standard in Small Molecule Drug Discovery Benchmarking" 2024 Conference on Neural Information Processing Systems.

 Acceptance rate 25.3%

 [Paper][Code][Slides][Poster]
- [C18] **Yu Wang**, Nedim Lipka, Ruiyi Zhang, Alexa Siu, Yuying Zhao[†], Bo Ni[†], Xin Wang[†], Ryan Rossi, Tyler Derr. "Augmenting Textual Generation via Topology Aware Retrieval" Proceedings of the 33th ACM International Conference on Information and Knowledge Management, 2024

 Acceptance rate 23.00%

 [Paper][Code][Slides][Poster]
- [C17] **Yu Wang**, Jin-Zhu Yu, Hiba Baroud. "A Bayesian Approach to Reconstructing Interdependent Infrastructure Networks from Cascading Failures." 14th International Conference on Applications of Statistics and Probability in Civil Engineering, 2023.

 [Paper]
- [C16] Yu Wang, Amin Javari, Janani Balaji, Walid Shalaby, Tyler Derr, Xiquan Cui "Knowledge Graph-Based Sequential Recommendation with Session-Adaptive Propagation." In Proceedings of the ACM Web Conference (TheWebConf - Industry Track), 2024. Acceptance Rate 21.30%,
- [C15] Yuying Zhao[†], Minghua Xu, Huiyuan Chen, Yuzhong Chen, Yiwei Cai, Rashidul Islam, **Yu Wang**, Tyler Derr. "Can One Embedding Fit All? A Multi-interest Learning Paradigm Towards Improving User Interest Diversity Fairness." In Proceedings of the ACM Web Conference (TheWebConf Research Track), 2024. Acceptance Rate 20.20%,
- [C14] **Yu Wang**, Tong Zhao, Yuying Zhao[†], Yunchao Liu[†], Xueqi Cheng[†], Neil Shah, Tyler Derr. "A Topological Perspective on Demystifying GNN-based Link Prediction Performance." 2024. International Conference on Learning Representation (ICLR'24)

 [Paper][Code]
- [C13] Yu Wang, Nedim Lipka, Ryan Rossi, Alexa Siu, Ruiyi Zhang, Tyler Derr "Knowledge Graph Prompting for Multi-Document Question Answering." The 38th AAAI Conference on Artificial Intelligence (AAAI), Vancouver, Canada, 2024
 Acceptance Rate 23.75%, Best Paper Award at GLFrontiers Workshop in Neurips'23
 [Paper][Code][Slides][Poster]

[C12] Yuying Zhao[†], **Yu Wang**, Yi Zhang, Pamela Wisniswski, Charu Aggarwal, and Tyler Derr. "Fair online dating recommendations for sexually fluid users via leveraging opposite gender interaction ratio." The 38th AAAI Conference on Artificial Intelligence (AAAI), Vancouver, Canada, 2024
Acceptance Rate 24.20%
[Paper]

- [C11] **Yu Wang**, Yuying Zhao[†], Yi Zhang[†], and Tyler Derr. "Collaboration-aware Graph Convolutional Networks for Recommender Systems." In Proceedings of the ACM Web Conference (TheWebConf), Austin, TX, USA, April 30 May 4, 2023. Acceptance Rate 19.2%, **Top-10 most influential paper in WWW'23**[Paper][Code][Slides]
- [C10] Yuying Zhao[†], **Yu Wang** and Tyler Derr. "Fairness and Explainability: Bridging the Gap Towards Fair Model Explanations." The 37th AAAI Conference on Artificial Intelligence (AAAI), Washington, DC, USA, 2023.

 Acceptance Rate 19.6%
 [Paper][Code][Slides][Poster]
 - [C9] Yunchao Liu[†], **Yu Wang**, Oanh Vu, Rocco Moretti, Bobby Bodenheimer, Jens Meiler and Tyler Derr. "Interpretable Chirality-Aware Graph Neural Network for Quantitative Structure-Activity Relationship Modeling in Drug Discovery." The 37th AAAI Conference on Artificial Intelligence (AAAI), Washington, DC, USA, February 7-14, 2023. Acceptance Rate 19.6%
 [Paper] [Code][Slides][Poster]
- [C8] **Yu Wang**, Yuying Zhao[†], Neil Shah, and Tyler Derr. "Imbalanced Graph Classification via GNNs on Graph of Graphs." In Proceedings of the 31th ACM International Conference on Information and Knowledge Management, Atlanta, GA, 2022.

 Acceptance rate 27.51%, **Top-10 most influential paper in CIKM'22**[Paper][Code][Slides][Poster]
- [C7] Yu Wang, Yuying Zhao[†], Yushun Dong, Huiyuan Chen, Jundong Li and Tyler Derr. "Improving Fairness in GNNs via Mitigating Sensitive Attribute Leakage." Proceedings of the 28th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD), Washington D.C., USA, 2022. Acceptance rate 14.9% (Research Track) [Paper][Code][Slides][Poster]
- [C6] Yushun Dong, Song Wang, **Yu Wang**, Tyler Derr, and Jundong Li. "On Structural Explanation of Bias in Graph Neural Networks ." Proceedings of the 28th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD), Washington D.C., USA, 2022. Acceptance rate 14.9% (Research Track)

 [Paper][Code]
- [C5] Benedek Rozemberczki, Charles Tapley Hoyt, Anna Gogleva, Piotr Grabowski, Klas Karis, Andrej Lamov, Andriy Nikolov, Sebastian Nilsson, Michael Ughetto, **Yu Wang**, Tyler Derr, Benjamin M Gyori. "ChemicalX: A Deep Learning Library for Drug Pair Scoring." Proceedings of the 28th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), Washington D.C., USA, 2022. Acceptance rate 25.9% (Applied Track)
 [Paper][Code][Slides][Poster]
- [C4] **Yu Wang.** "Fair Graph Learning with Imbalanced and Biased Data." Proceedings of the Fifteenth ACM International Conference on Web Search and Data Mining (WSDM), 2022. [Paper][Slides]
- [C3] Yu Wang and Tyler Derr. "Tree Decomposed Graph Neural Network." In Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM), Virtual Conference, November 1-5, 2021. Acceptance rate 21.7% [Paper][Code][Slides][Poster]

- [C2] **Yu Wang**, Jinzhu Yu, and Hiba Baroud. "Quantifying the Interdependency Strength Across Critical Infrastructure Systems Using a Dynamic Network Flow Redistribution Model." Proceedings of the 30th European Safety and Reliability Conference, 2020. [Paper]
- [C1] Ao Qu^{††}, **Yu Wang**, Yue Hu, Yanbing Wang, and Hiba Baroud. "A Data-Integration Analysis on Road Emissions and Traffic Patterns." Smoky Mountains Computational Sciences and Engineering Conference. Springer, 2020.

Best Paper Award
[Paper]

Book Chapters

[B1] **Yu Wang**, Wei Jin, and Tyler Derr. "Graph Neural Networks: Self-supervised Learning." In Graph Neural Networks: Foundations, Frontiers, and Applications. Springer, (2021). [Paper]

Journal Papers

- [J5] Yi Zhang[†], Yuying Zhao[†], Zhaoqing Li, Xueqi Cheng[†], Yu Wang, Olivera Kotevska, Philip S. Yu, Tyler Derr. "A Survey on Privacy in Graph Neural Networks: Attacks, Preservation, and Applications" 2023.
 TKDE journal
 - [Paper]
- [J4] April Chen, Ryan A. Rossi, Namyong Park, Puja Trivedi, Yu Wang, Tong Yu, Sungchul Kim, Franck Dernoncourt, Nesreen K. Ahmed "Fairness-Aware Graph Neural Networks: A Survey". TKDD journal, 2023 [Paper]
- [J3] Yuying Zhao[†], Yu Wang, Yunchao Liu[†], Xueqi Cheng[†], Charu Aggarwal, Tyler Derr "Fairness and Diversity in Recommender Systems: A Survey" TIST journal, 2023 [Paper]
- [J2] **Yu Wang**, Jin-Zhu Yu, and Hiba Baroud. "Generating Synthetic Systems of Interdependent Critical Infrastructure Networks." IEEE System Journals (2021) Generating Synthetic Systems of Interdependent Critical Infrastructure Networks.

 [Paper]
- [J1] Qingfei Gao, Yu Wang, Jun Li, Kejian Sheng, and Chenguang Liu. "An Enhanced Percolation Method for Automatic Detection of Cracks in Bridges." Advances in Civil Engineering, 2020. [Paper]

Preprints and Submissions

- [P3] Yu Wang, Ryan A. Rossi, Namyong Park, Huiyuan Chen, Nesreen K. Ahmed, Puja Trivedi, Franck Dernoncourt, Danai Koutra, Tyler Derr. "Large Graph Generative Models" 2024. Preprint
 - [Paper][Code][Demo]
- [P2] Yunchao Liu[†], Rocco Moretti, **Yu Wang**, Ha Dong, Bobby Bodenheimer, Tyler Derr, Jens Meiler, Advancements in Ligand-Based Virtual Screening through the Synergistic Integration of Graph Neural Networks and Expert-Crafted Descriptors.

 Submission in JCBC journal
- [P1] Yu Wang, Charu Aggarwal, Tyler Derr. "Distance-wise Prototypical Graph Neural Network in Node Imbalance Classification." 2022. Preprint [Paper][Code]

SYMPOSIUMS / Workshops WORKSHOPS

- [W8] **Yu Wang**, Ram Durairajan. "Network Management with Graph Machine Learning: Challenges and Sollutions." Security Datasets for AI Workshop, SECDAI, Presentations, 2024.
- [W7] **Yu Wang**. "Data-quality Aware Graph Machine Learning." International Conference on Data Mining (SDM) Doctoral Forum, SIAM, Poster, 2024. **Best Poster Award Runner-ups**
- [W6] **Yu Wang**, Nedim Lipka, Ryan Rossi, Alexa Siu, Ruiyi Zhang, Tyler Derr. "Knowledge Graph Prompting for Multi-Document Question Answering" GLFrontiers Workshop at NeurIPS 2023, New Orleans, LA, USA, 2023. [Paper]
- [W5] Yuying Zhao, **Yu Wang**, Yi Zhang, Pamela Wisniewski, Charu Aggarwal, and Tyler Derr. "Fair Online Dating Recommendations for Sexually Fluid Users via Leveraging Opposite Gender Interaction Ratio." 19th International Workshop on Mining and Learning with Graphs, Long Beach, CA, USA, 2023. [Paper]
- [W4] **Yu Wang** and Tyler Derr. "Degree-Related Bias in Link Prediction." IEEE International Conference on Data Mining Workshops, Orlando, FL, USA, November 28, 2022. [Paper]
- [W3] **Yu Wang**. "Overcoming Data Quality Issues of Graph Neural Networks." International Conference on Data Mining (SDM) Doctoral Forum, SIAM, Poster, 2022.
- [W2] **Yu Wang**, Charu Aggarwal, and Tyler Derr. "Distance-wise Prototypical Graph Neural Network in Node Imbalance Classification." 17th International Workshop on Mining and Learning with Graphs. [Paper][Code]
- [W1] **Yu Wang** and Tyler Derr. "Tackling Over-smoothing in Graph Neural Networks via Higher-order Neighborhood Disentanglement." International Conference on Data Mining (SDM) Doctoral Forum, SIAM, Poster, 2021.

TUTORIALS

Data Quality-Aware Graph Machine Learning [Tutorial]

2024

- Yu Wang, Kaize Ding, Xiaorui Liu, Jian Kang, Ryan Rossi, and Tyler Derr.
- Proceedings of the 33th ACM International Conference on Information and Knowledge Management, 2024 (CIKM2024)
- Comprehensively review Graph data-quality issues, including topological/imbalanced/biased/noisy/weak data issues.

 Data Quality-Aware Graph Machine Learning [Tutorial]

 2023
 - Yu Wang, Yijun Tian, Tong Zhao, Xiaorui Liu, Jian Kang, and Tyler Derr.
 - SIAM International Conference on Data Mining (SDM24)
 - · Comprehensively review Graph data-quality issues, including topological/imbalanced/biased/noisy/weak data issues.

OPEN SOURCE PROJECTS

ChemicalX: A Deep Learning Library for Drug Pair Scoring [GitHub]

2022

- Proceedings of the 28th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)
- A deep learning library for drug-drug interaction, polypharmacy side effects, and synergy prediction.
- Received 650+ GitHub stars.

Knowledge Graph Prompting for Multi-Document Question Answering[GitHub]

2022

Sep 2024

- The 38th Annual AAAI Conference on Artificial Intelligence (AAAI)
- · A knowledge graph prompting method for assisting LLMs in automatically answering questions over documents.
- · Received around 250 GitHub stars.

In total, my research projects contributed 7 GitHub repositories and received 1000+ GitHub stars

TALKS Academic Talks:

- [AT8] Data-quality-aware Graph Machine Learning for Multi-Purpose-Driven Applications Oct 2024 Online Machine Learning Seminar Vanderbilt University, TN
- [AT7] Data-quality-aware Graph Machine Learning
 Intelligent Data Engineering and Analytics Lab
 University of North Texas, TX
- [AT6] Relational-aware Retrieval Augmentation for Text Generation (Remote)

 Large Language Models for Graph Learning Workshop

 The World Wide Web Conference, Sentosa, Singapore

[AT5]	Data-quality-aware Graph Machine Learning Data Science for Smart Manufacturing and Healthcare Workshop SIAM International Conference on Data Mining, Houston, TX	Apr 2024
[AT4]	Data-quality-aware Graph Machine Learning School of Information University of Arizona, Tucson, AZ	Feb 2024
[AT3]	Data-quality-aware Graph Machine Learning Department of Computer Science, Data Science Center University of Memphis, Memphis, TN	Feb 2024
[AT2]	Data-quality-aware Graph Machine Learning Department of Computer Science and Data Science University of Oregon, Eugene, Oregon	Jan 2024
[AT1]	Relational-aware Retrieval Augmentation for Text Generation (Remote) Learning of Graphs at MidNorth, Notre Dame, Indiana	Jan 2024
Industr	y Presentations:	
[IT2]	Knowledge Graph Prompt Learning for Multi-Document QA Document Intelligence Team, Adobe Research Adobe Inc., SanJose, CA	Aug 2023
[IT1]	Knowledge Graph-based Session Recommendation Online Recommendation Data Science Team The Home Depot, Atlanta, GA	Aug 2022
Guest L	ectures:	
[GT4]	Welcome to Grad School Seminar Computer Science Department University of Oregon, Eugene, OR	Oct 2024
[GT3]	Graph Partitioning with Spectral Methods Social Network Analysis, Computer Science Department Vanderbilt University, Nashville, TN	Mar 2024
[GT2]	Scalability of Graph Neural Networks (GNNs) Social Network Analysis, Computer Science Department Vanderbilt University, Nashville, TN	Nov 2023
[GT1]	Measuring Node Centrality in Social Network Analysis Social Network Analysis, Computer Science Department Vanderbilt University, Nashville, TN	Oct 2021
Confere	ence/Workshop Presentations:	
[CT13]	Augmenting Textual Generation via Topology Aware Retrieval. CIKM 2024, Boise, ID	Oct 2024
[CT12]	Knowledge Graph Prompting Learning for Multi-Document QA. NeurIPS 2023, New Orleans, LA	Dec 2023
[CT11]	Collaboration-aware Graph Convolutional Networks for Recommender Systems. WWW 2023, Austin, Texas	May 2023
[CT10]	Degree-Related Bias in Link Prediction. ICDMW 2022, Orlando, FL	Nov 2022
[CT9]	Degree-Related Bias in Link Prediction. ICDMW 2022, Orlando, FL	Nov 2022
[CT8]	Imbalanced Graph Classification via Graph Neural Networks on Graph of Graphs CIKM 2022, Atlanta, GA	Nov 2022

[CT7]	Improving Fairness in GNNs via Mitigating Sensitive Attribute Leakage KDD 2022, Washington D.C.	Aug 2022
[CT6]	ChemicalX: A Deep Learning Library for Drug Pair Scoring KDD 2022, Washington D.C.	Aug 2022
[CT5]	Distance-wise Prototypical Graph Neural Network in Node Imbalance Classification KDD 2022, Washington D.C.	1 Aug 2022
[CT4]	Overcoming data quality issues of Graph Neural Networks SDM Doctoral Forum 2022, Virtual	Apr 2022
[CT3]	Fair Graph Representation Learning with Imbalanced and Biased Data. WSDM Doctoral Consortium 2022, Virtual	Feb 2022
[CT2]	Tree Decomposed Graph Neural Network. CIKM 2021, Virtual Selected among the top 3/11 papers in the GNN track to give two live virtual pro-	Nov 2021
[CT1]	Tackling Over-smoothing in GNNs via Higher-order Neighbor Disentanglement SDM Doctoral Forum 2021, Virtual	Apr 2021

PROPOSAL WRITING

Safeguard Graph Retrieval-Augmented Generation with Structure-aware Reliability and Robustness PI: Dr. Yu Wang

- Role: Proposal focused on the safety of GraphRAGs by addressing reliability through a multi-hop conformal
 prediction framework and robustness through structure-aware adversarial attacks and adversarial training. My work
 ensures safer, more trustworthy deployment of GraphRAGs in real-world applications like e-commerce and healthcare.
- Result: Submitted to Amazon Research Award Fall 2024 and currently under company internal review.

Trustworthy GraphRAG for Safe Coding LLMs

PI: Dr. Yu Wang

- Role: Propose a Graph Retrieval Augmented Generation (GraphRAG) system, which effectively retrieves the domain
 expertise from the world vulnerability knowledge base to automate code safety evaluation, detects vulnerabilities and
 provides early warnings of potential attack strategies simultaneously.
- · Result: Submitted to Amazon Trustworthy AI challenge and was declined in 2024.

Specializing the knowledge and Regulating Behaviors of LLMs for Recommending Systems PI: Dr. Yu Wang

- Role: Specialize the Expertise of LLMs for Recommender Systems (RS) by augmenting the knowledge and regulating the behaviors of LLMs for RS.
- Result: Under company internal review.

Data Quality-Aware Graph Machine Learning

PI: Dr. Tyler Derr

- **Role:** Currently designing/writing one of three research objectives on topological issues. This one specific objective is based on my dissertation topic "Data Quality-Aware Graph Machine Learning".
- Result: Still in preparation to submit to the National Science Foundation in 2024.

Towards Mitigating the Cold-Start Problem in Recommender Systems

PI: Dr. Tyler Derr

- Role: Designed/wrote one of the two research objectives "Cold-Start Mitigation via Node Topological Concentration Augmentation." The whole proposal was based on my research [paper]
- · Result: Submitted to Snap Inc. and funded in 2023.

CAREER: Harnessing the Positive Power of Negative Links for Network Analytics

PI: Dr. Tyler Derr

- Role: Designed/wrote one of the four research objectives "Network Representation Learning with Negative Links."
- Result: Submitted to National Science Foundation and **funded** in 2023.

Fairness-aware Graph Machine Learning for Recommender Systems

PI: Yu Wang

- Role: Designed/wrote the research objective "Fairness-aware Graph Machine Learning for Recommender Systems."
- Result: Submitted to Nvidia Academic Hardware Grant Program and was declined in 2022.

New Frontiers of Deep Learning on Graphs for Social Good PI: Dr. Tyler Derr

- **Role:** Designed and drafted the whole proposal on topics of imbalanced classification and learning with limited labeled data on graphs for applications in neuroimaging and computational drug discovery. Most of the proposal content was based on my research. [paper1][paper2]
- Result: Submitted to Miscrosoft Research Faculty Fellowship and was declined in 2021.

MENTORING IN DGL LAB

Data Mining and Graph Machine Learning Lab, University of Oregon **Ph.D. Students**

• Yongjia Lei, Ph.D. Computer Science

Fall 2024 - Present

• Research topic: Data-centric and Trustworthy Structure-aware LLMs for Social Good.

MENTORING IN NDS LAB

Network and Data Science Lab, Vanderbilt University **Ph.D. Students**

· Bo Ni, Ph.D. Computer Science

Fall 2023 - Present

- Research topic: Deep learning on graphs, knowledge graphs.
- Project: Towards Trustworthy Knowledge Graph Reasoning: An Uncertainty Aware Perspective
- Xueqi Cheng, Ph.D. Computer Science

Fall 2023 – Present

- Research topic: Deep Learning on Complex Graphs, out of distribution and imbalanced learning on graphs
- Awarded Vanderbilt IBM Fellowship Award
- Project: Imbalanced Edge Classification by Topological Reweighting
- Yuying Zhao, Ph.D. Computer Science

Fall 2021 – Present

- Research topic: Data science for social good, beyond utility metrics,
- Awarded Vanderbilt IBM Fellowship Award
- Awarded Vanderbilt's C.F. Chen Best Paper Runner-Up Award in Computer Science in 2023
- Co-authored Publications: AAAI'23, MloG at KDD'23
- Yunchao (Lance) Liu, Ph.D. Computer Science

Spring 2021 – Present

- Research topic: Computer-aided drug discovery, geometric deep learning, self-supervised learning, molecular representation learning
- Co-authored Publications: AAAI'23

M.S. Students

• Xin Wang, M.S. Computer Science,

Jan 2024 – Present

- Research topic: Topological Graph Generative Models
- Awarded Vanderbilt's Engineering Graduate Fellowship Award
- Co-authored Publications: NeurIPS'24, CIKM'24
- Benjamin Van Sleen, B.S. Computer Engineering, B.S. Economics, Dec 2020 May 2023 and accelerated M.S. Computer Science
 - 2021 Data Science Institute Summer Research Program (DSI-SRP) Fellow
 - Project: "Voices of Identity: Analyzing Language Use in Autism Communities on Reddit"
 - Next Position: Business Analyst at McKinsey & Company

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• Leyao Wang, B.S. Computer Science, B.S. Mathematics

Mar 2024 – Present

- Nominated for CRA Outstanding Undergraduate Research Award
- Co-authored Publications: one paper under review
- Macharia Kanyatte, B.S. Electrical and Computer Engineering

Nov 2022 – May 2023

- Tennessee Louis Stokes Alliance Program
- Proejct: Preprocessing signed network datasets and basic network analysis toolkit
- Georgia Tech REU program during Summer'23
- Ao Qu, B.S. Computer Science, B.S. Economics, B.S. Mathematics

Aug 2020 – Jun 2022

- Project: "Adaptive views in contrastive learning for GNNs"
- Co-authored Publication won the best paper award in fourth annual **Smoky Mountain Computational Sciences and Engineering Conference**
- Next Position: Ph.D. student at Massachusetts Institute of Technology

High School Students

· Xinran Pan Jun 2021 – May 2022

- Mentor the Project on Social Good and Simpson's Paradox
- Next position: Undergraduate Student at Carnegie Mellon University

TEACHING EXPERIENCE

University of Oregon

Lecturer, Department of Computer Science

Oct 2024 – Present

- CS 410/510: Mining and Learning on Graphs (Undergraduate/Graduate Level, Fall 2024) [Website]
- CS 453: Data Mining (Undergraduate/Graduate Level, Winter 2025)[Website]
- CS 610: Advanced Machine Learning (Graduate Level, Spring 2025)

Vanderbilt University

Teaching Assistant, Department of Computer Science

Jan 2021 – Present

- CS4260: Artificial Intelligence (Undergraduate/Graduate Level, Spring 2023)
- DS5720: Social Network Analysis (Graduate Level, Fall 2022)
- CS3891/5891-03: Social Network Analysis (Undergraduate/Graduate Level, Fall 2021)

Teaching Assistant, Department of Civil and Environmental Engineering

Aug 2019 - Jan 2021

- CE3300: Risk, Reliability and Resilience Engineering (Undergraduate Level, Spring 20)
- CE2101-01: Civil Engineering Information Systems (Undergraduate Level, Fall 19)

EXTERNAL SERVICES

Workshop Organizer

 Workshop Co-organizer and Web Chair, Machine Learning on Graphs (MLoG) 	2024
Collocated at ACM WSDM'24	

 Workshop Co-organizer and Web Chair, Machine Learning on Graphs (MLoG) 2022

Collocated at ACM WSDM'22

Conference Organizer Chairships

Student Travel Awards Co-chair, CIKM'24

2024

ACM International Conference on Information and Knowledge Management

Program Committee Member

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	Conference (Sub-)Reviewer	
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