Yu Wang

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CONTACT INFORMATION	Office: A4022 Sony Building 1400 18th Ave S Nashville, TN 37212	Personal Homepage: https://yuw LinkedIn: https://www.linkedin GitHub: https://github.com/YuW Twitter: https://twitter.com/YuW	.com/in/YuWangGraphML/ VVandy		
	E-mail: yu.wang.1@vanderbilt.edu	Google Scholar: https://scholar.google	5		
вю	Yu Wang is an incoming Assistant Professor in the School of Computer and Data Sciences at the University of Oregon. He is a final-year Ph.D. candidate in the Computer Science Department at Vanderbilt University under the supervision of Dr. Tyler Derr and a member of Network and Data Science (NDS) Lab. He completed his B.E. degree at Harbin Institute of Technology in 2019.				
	Yu will direct the <i>Data Mining and Network Science (DNS) lab</i> , which conducts research in the areas of data mining and machine learning, with emphasis on network analysis, machine learning on graphs, and responsible AI for social good with applications in cyber-security, biochemistry, and education. 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 ICLR, AAAI, KDD, WWW, CIKM, WSDM, TKDD, TIST and serving as a PC member/reviewer/organizer such as KDD, ICML, AAAI, WWW, WSDM, CIKM, TKDD, and TNNLS. He has contributed to the organization of workshops in WSDM'22/24 and the tutorial in SDM'24. For more details, please visit his website at https://yuwvandy.github.io/				
POSITIONS	Incoming Assistant Professor , Unive Department of Computer Science	rsity of Oregon	Sep 2024 – Presen		
	Ph.D. candidate , Vanderbilt Universit Department of Computer Science	Aug 2020 – Aug 2024			
	Ph.D. student , Vanderbilt University Department of Civil and Environmenta	al Engineering	Aug 2019 – Aug 2020		
EDUCATION	Vanderbilt University				
	Doctor of Philosophy (Ph.D.) in Comp • Dissertation: Data-quality-aware Graph I • Advisor: Dr. Tyler Derr • Research areas: Data-centric Graph M	Machine Learning	Aug 2020-Present		
	 Research areas: Data-centric Graph Machine Learning, Data-Quality-aware Graph Neural Networks, Machine Learning for Social Goods including Chemistry/Infrastructure/Information Retrieval Cumulative GPA: 3.95 / 4.00 				
	 Doctor of Philosophy (Ph.D.) in System Engineering Aug 2019-Aug 2020 Advisor: Dr. Hiba Baroud Research areas: Statistical Network Models, Graph Machine Learning, Resilience and Reliability of Infrastructure Networks including Power/Water/Gas/Transportation/Social Networks. Cumulative GPA: 3.92 / 4.00 				
	Harbin Institute of Technology				
	 Bachelor of Engineering (B.E.) Thesis: Machine Learning for Bridge Cra Advisor: Dr. Qingfei Gao Cumulative GPA: 4.0 / 4.0, Rank: 1/92 First-class People's Scholarship×4, National Content of Content		Aug 2015-May 2019		

RESEARCH EXPERIENCE	 Network and Data Science Lab, Vanderbilt University Ph.D. candidate Research Interests: Data mining, Machine Learning, Network Analysis, Graph Neural M Data-centric graph ML, Data-quality-aware GNNs: Topology/Imba Graph-ML for Chemistry/Infrastructure/Recommender Systems/Infr Publications: ICLR, NeurIPS, KDD×3, WWW×2, AAAI×4, WSDM, CIKM×2, ICD Mentor/Advisor: Dr. Tyler Derr 	lance/Bias/Weak ormation Retrieval			
	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 [ongoing] • Project-4: Collecting Personalized-interaction Data with PDF-Document • Mentors: Dr. Nedim Lipka, Dr. Ryan Rossi, Dr. Alexa Siu, Dr. Ruiyi Zhang, Manager: Dr. Tong Sun				
	Recommendation Data Science Team, The Home DepotMay 2022 – Aug 2022Research 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 – Jan 2021 Ph.D. student 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-CSSTJul 2019 – Sep 2019Undergraduate Summer Researcher• Project: Designing a modeling analysis tool for automatic bridge generation [poster]• Mentors: Dr. Ertugrul Taciroglu, Dr. Barbaros Cetiner• Hentors				
	Qingfei Gao Research Group , Harbin Institute of Technology Undergraduate Summer Researcher • Project: Improving the existing percolation-based algorithm for bridge crack detection • Mentors: Dr. Qingfei Gao	Oct 2018 – Jul 2019 [paper]			
HONORS & AWARDS	 Best Doctoral Forum Poster Runner-Up Vanderbilt Outstanding Doctoral Student Award Best Paper Award at GLFrontiers Workshop in Neurips'23 Vanderbilt Graduate Leadership Anchor Award for Research Vanderbilt's C.F.Chen Best Paper Runner-up Award (as co-author) American Bureau of Shipping Scholarship Award NSF Student Travel Award (To attend ICDM'22) SIGIR Student Travel Grant (To attend CIKM'22) SIGIR Student Registeration&Travel Award (To attend KDD'22) Vanderbilt's C.F.Chen Best Paper Award IJCAI'21 Volunteers & Grants Program NSF Student Travel Award (To attend SDM'21) IJCAI'20 Volunteers & Grants Program Vanderbilt University Graduate School Travel Grant Best Paper Award in 2020 Smoky Mountain Data Challenge Competition by Outstanding Research and Presentation Skills Award by UCLA-CSST Progra First-class People's Scholarship×4 Sep 2016 Apr 20 National Scholarship×2 Second Prize in the National College Student Mathematics Competition 	am Aug 2018			

PUBLICATIONS Please note the following symbols below to signify certain author types in the below lists: * | denotes co-first authors

- t 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):

- [C17] Yuying Zhao[†], Yu Wang, Yunchao Liu[†], Xueqi Cheng[†], Charu Aggarwal, Tyler Derr "Fairness and Diversity in Recommender Systems: A Survey" TIST journal, 2023
 [Paper]
- [C16] 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]
- [C15] 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%,
- [C14] 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%,
- [C13] 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]
- [C12] 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]
- [C11] 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]
- [C10] 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]
- [C9] 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]

- [C8] 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]
- [C7] 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]
- [C6] 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]
- [C5] 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]
- [C4] 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]
- [C3] 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]
- [C2] 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]
- [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

 [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

- [P4] 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.
 Submission in TKDE journal
 [Paper]
- [P3] Yunchao Liu[†], Rocco Moretti, Yu Wang, Bobby Bodenheimer, Tyler Derr, Jens Meiler, Integrating Expert Knowledge with Deep Learning Improves QSAR Models for CADD Modeling. Submission in JCBC journal
- [P2] Yu Wang, Charu Aggarwal, Tyler Derr. "Distance-wise Prototypical Graph Neural Network in Node Imbalance Classification." 2022. Preprint [Paper][Code]
- [P1] Yu Wang, Jin-Zhu Yu, Hiba Baroud. "A Bayesian Approach to Reconstructing Interdependent Infrastructure Networks from Cascading Failures." 2022.
 Preprint [Paper]

SYMPOSIUMS / Workshops WORKSHOPS

- [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]

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. 					
	Knowle • The 3	 Knowledge Graph Prompting for Multi-Document Question Answering[GitHub] 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 200 GitHub stars . In total, my research projects contributed 7 GitHub repositories and received 900+ GitHub stars				
TALKS	Academic Talks:					
	[AT4]	Data-quality-aware Graph Machine Learning Data Science for Smart Manufacturing and Healthcare Workshop SIAM International Conference on Data Mining, Houston, TX	Feb 2024			
	[AT3]	Data-quality-aware Graph Machine Learning School of Information University of Arizona, Tucson, AZ	Feb 2024			
	[AT2]	Data-quality-aware Graph Machine Learning Department of Computer Science, Data Science Center University of Memphis, Memphis, TN	Feb 2024			
	[AT1]	Data-quality-aware Graph Machine Learning Department of Computer Science and Data Science University of Oregon, Eugene, Oregon	Jan 2024			
	Industry 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	Lectures:				
	[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			
	Conference/Workshop Presentations:					
	[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]				
	[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 y	Nov 2021		
	[CT1]	Tackling Over-smoothing in GNNs via Higher-order Neighbor Disentang SDM Doctoral Forum 2021, Virtual	-		
PROPOSAL WRITING	 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." Role: Designed/wrote the research objective "Fairness-aware Graph Machine Learning for Recommender Systems." 				
	MENTORING IN NDS LAB	Ph.D. S • Bo	k and Data Science Lab , Vanderbilt University Students Ni, Ph.D. Computer Science Research topic: Deep learning on graphs, knowledge graphs, deep generative models	Fall 2023 – Present	
	•	eqi Cheng, Ph.D. Computer Science 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	Fall 2023 – Present		

	 Yuying Zhao, Ph.D. Computer Science 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 Comp Co-authored Publications: AAAI'23, MloG at KDD'23 	Fall 2021 – Present outer Science in 2023		
	 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, Research topic: Topological Graph Generative Models Awarded Vanderbilt's Engineering Graduate Fellowship Award 	Jan 2024 – Present		
	 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 			
	 B.S. Students Macharia Kanyatte, B.S. Electrical and Computer Engineering Tennessee Louis Stokes Alliance Program Proejct: Preprocessing signed network datasets and basic network analy Georgia Tech REU program during Summer'23 	Nov 2022 – Present rsis toolkit		
	 Ao Qu, B.S. Computer Science, B.S. Economics, B.S. Mathematics 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 Conf. Next Position: Ph.D. student at Massachusetts Institute of Technology 			
	 High School Students Xinran Pan Mentor the Project on Social Good and Simpson's Paradox Next position: Undergraduate Student at Carnegie Mellon University 	Jun 2021 – May 2022		
TEACHING EXPERIENCE	 Vanderbilt University Teaching Assistant, Department of Computer Science 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) 	Jan 2021 – Present		
	 Teaching Assistant, Department of Civil and Environmental Engineering CE3300: Risk, Reliability and Resilience Engineering (Undergraduate Level, Spring 20) CE2101-01: Civil Engineering Information Systems (Undergraduate Level, Fall 19) 	Aug 2019 – Jan 2021		
EXTERNAL SERVICES	 Workshop Organizer Workshop Co-organizer and Web Chair, Machine Learning on Graphs (ML- - Collocated at ACM WSDM'24 Workshop Co-organizer and Web Chair, Machine Learning on Graphs (ML- - Collocated at ACM WSDM'22 			
	Conference Organizer Chairships Student Travel Awards Co-chair, CIKM'24 ACM International Conference on Information and Knowledge Manag 	2024 gement		

Program Committee Member 2024 • European Conference on Machine Learning and Data Mining (ECML PKDD) SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2024 Association for the Advancement of Artificial Intelligence (AAAI) 2024 SIAM International Conference on Data Mining (SDM) 2024 • ACM International Conference on Web Search and Data Mining (WSDM) 2024 • SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2023 • ACM International Conference on Web Search and Data Mining (WSDM) 2023 Association for the Advancement of Artificial Intelligence (AAAI) 2022 • SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2022 **Conference (Sub-)Reviewer** • Learning on Graphs Conference (LOG) 2023 Association for the Advancement of Artificial Intelligence (AAAI) 2023 • ACM International Conference on Web Search and Data Mining (WSDM) 2023 International Conference on Machine Learning (ICML) 2023 • International Conference on Web and Social Media (ICWSM) 2023 • SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2022 • Neural Information Processing Systems (NeurIPS) 2022 • Learning on Graphs Conference (LOG) 2022 • SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2021 • Conference on Information and Knowledge Management (CIKM) 2021 • Advances in Social Networks Analysis and Mining (ASONAM) 2021 SIAM International Conference on Data Mining(SDM) 2021 International ACM Conference on Web Science (WebSci) 2021 • The Web Conference (WWW) 2021 **Journal Reviewer** • ACM Transactions on Intelligent Systems and Technology (TIST) 2023 - Present • IEEE Transactions on Big Data (TBD) 2023 - Present ACM Transactions on Knowledge Discovery from Data (TKDD) 2023 - Present Neural Networks 2023 – Present • IEEE Transactions on Knowledge and Data Engineering (TKDE) 2022 – Present • Data Mining and Knowledge Discovery (DAMI) 2022 - Present • Journal of Combinatorial Optimization (JOCO) 2022 – Present

VOLUNTEERING Conference Volunteering

G Connerence volunteering	
Session chair at SDM 2024	2024
"Social Networks/Graphs"	
Session chair at ICDM 2022	2022
"Graph Mining and Embedding"	
 Volunteer at ICDM 2022 	2022
Volunteer at CIKM 2022	2022
Volunteer at KDD 2022	2022
Session chair at KDD 2021	2021
"Recommender System"	
Volunteer at IJCAI 2021	2021
Volunteer at IJCAI 2020	2020

[CV compiled on 2024-04-28]