

# Xueqi Cheng

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## SUMMARY OF QUALIFICATION

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In-depth knowledge and research experience in geometric deep learning and social network analysis, with a keen interest in **deep learning on complex graphs**, **out-of-distribution generalization**, and **imbalanced learning on graphs**.

## EDUCATION

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### Vanderbilt University

*Ph.D. in Computer Science*

Nashville, TN

*Aug. 2021 – present*

### University of Michigan

*M.S.E. in Civil Engineering (Structures)*

Ann Arbor, MI

*Aug. 2018 – Dec. 2019*

### Southwest Jiaotong University (SWJTU)

*B.S. in Civil Engineering (Bridge Engineering)*

Chengdu, China

*Sep. 2014 – Jul. 2018*

## RESEARCH EXPERIENCES

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### Network and Data Science (NDS) Lab

*Ph.D. student, Computer Science Department*

May. 2023 – present

*Vanderbilt University*

- Research topics: Deep learning on complex graphs, out of distribution generalization, and imbalanced learning on graphs
- Advisor: Dr. Tyler Derr

### Baroud Research Group (BRG)

*Ph.D. student, Civil and Environmental Engineering Department*

Aug. 2021 – May. 2023

*Vanderbilt University*

- Research topics: Machine learning, network modeling, resilience assessment
- Advisor: Dr. Hiba Baroud

### Resilient and Efficient Structures Laboratory (RESLab)

*M.S. student, Department of Civil and Environmental Engineering*

Jan. 2019 – Dec. 2019

*University of Michigan, Ann Arbor*

- Research topics: Performance-based wind engineering
- Advisor: Dr. Seymour M.J. Spence

## EMPLOYMENT

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### Southwest Jiaotong University Chengdu Design Institute Co., Ltd.

*Research Engineer Intern, Team of Bridge Design*

Jul. 2016 – Aug. 2016

*Chengdu, China*

- Research topics: VR technology, bridge conceptual design
- Advisor: Dr. Wei He

## SELECTED PUBLICATIONS

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1. Zhang, Yi, Yuying Zhao, Zhaoqing Li, **Xueqi Cheng**, Yu Wang, Olivera Kotevska, Philip S. Yu, and Tyler Derr. "A Survey on Privacy in Graph Neural Networks: Attacks, Preservation, and Applications." arXiv preprint arXiv:2308.16375 (2023).
2. Zhao, Yuying, Yu Wang, Yunchao Liu, **Xueqi Cheng**, Charu Aggarwal, and Tyler Derr. "Fairness and Diversity in Recommender Systems: A Survey." arXiv preprint arXiv:2307.04644 (2023).
3. **Cheng, Xueqi**, Yan Zhang, Sining Lu, Yinqiao Zhu, and Wei He. "Urban Bridge Conceptual Design Based on Virtual Reality Graphic Engine." In *IABSE Symposium Report*, vol. 108, no. 1, pp. 74-75. International Association for Bridge and Structural Engineering, 2017.

## SYMPOSIUMS AND WORKSHOPS

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1. **Cheng, Xueqi**. Urban Bridge Conceptual Design Based on Virtual Reality Graphic Engine. International Association for Bridge and Structural Engineering (IABSE) Symposium, presentation, 2017.

## SCHOLARSHIPS AND AWARDS

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- Engineering Graduate Fellowship from Vanderbilt University 2023 - present
- IBM Ph.D. Fellowship from Vanderbilt University 2021 - present
- National Encouragement Scholarship 2015, 2016
- Merit Student of SWJTU 2015, 2016
- Best Debater in Freshman Debate Competition held by the School of Civil Engineering, SWJTU 2014

## GUEST LECTURES

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- **Intro to PyTorch and PyG**  
CS 4352/5352: Social Network Analysis at Vanderbilt University, Oct. 2023

## ACADEMIC SERVICES

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- **PC Member** IEEE workshop BigData CTA3'23
- **Reviewer** ICWSM'24, WSDM'24, AAAI'24

## EXTRACURRICULAR ACTIVITIES

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- **President**, University Student Entrepreneurship Incubation Association of SWJTU Jun. 2016 – May. 2017
- **Volunteer Teacher**, Tuoxin Primary School, Anhui, China Jun. 2015 – Aug. 2015

## TEACHING

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- **TA** for CS 4352/5352: Social Network Analysis at Vanderbilt University Aug. 2023 – Dec. 2023
- **TA** for CE 2200: Statics at Vanderbilt University Jan. 2023 – May. 2023
- **TA** for CE 3205: Structural Design at Vanderbilt University Jan. 2022 – May. 2022
- **TA** for CE 3200: Structural Analysis at Vanderbilt University Aug. 2021 – Dec. 2021