

Xueqi Cheng

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SUMMARY OF QUALIFICATION

In-depth knowledge and research experience with applications of **data mining, machine learning on graphs, and social network analysis**. Strong systematic problem-solving ability and communication skills.

EDUCATION

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

Network and Data Science (NDS) Lab

Ph.D. student, Computer Science Department

May. 2023 – present

Vanderbilt University

- Research topics: Machine learning on graphs, Data mining, Learning with imbalanced graph-structured data
- 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. 2021

University of Michigan, Ann Arbor

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

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

- **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

- **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

- IBM Ph.D. Fellowship 2021 - 2023
- 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

ACADEMIC SERVICES

- **Reviewer** ICWSM 2024

EXTRACURRICULAR ACTIVITIES

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

TEACHING

- **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