

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 <i>Ph.D. in Computer Science</i>	Nashville, TN Aug. 2021 – present
University of Michigan <i>M.S.E. in Civil Engineering (Structures)</i>	Ann Arbor, MI Aug. 2018 – Dec. 2019
Southwest Jiaotong University (SWJTU) <i>B.S. in Civil Engineering (Bridge Engineering)</i>	Chengdu, China Sep. 2014 – Jul. 2018

RESEARCH EXPERIENCES

Network and Data Science (NDS) Lab <i>Ph.D. student, Computer Science Department</i> <ul style="list-style-type: none">Research topics: Machine learning on graphs, Data mining, Learning with imbalanced graph-structured dataAdvisor: Dr. Tyler Derr	May. 2023 – present Vanderbilt University
Baroud Research Group (BRG) <i>Ph.D. student, Civil and Environmental Engineering Department</i> <ul style="list-style-type: none">Research topics: Machine learning, Network modeling, Resilience assessmentAdvisor: Dr. Hiba Baroud	Aug. 2021 – May. 2023 Vanderbilt University
Resilient and Efficient Structures Laboratory (RESLab) <i>M.S. student, Department of Civil and Environmental Engineering</i> <ul style="list-style-type: none">Research topics: Performance-based wind engineeringAdvisor: Dr. Seymour M.J. Spence	Jan. 2019 – Dec. 2019 University of Michigan, Ann Arbor
Southwest Jiaotong University Chengdu Design Institute Co., Ltd. <i>Research Engineer Intern, Team of Bridge Design</i> <ul style="list-style-type: none">Research topics: VR technology, Bridge Conceptual DesignAdvisor: Dr. Wei He	Jul. 2016 – Aug. 2016 Chengdu, China

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