

XINYI WU

Curriculum Vitae (January 2023)

xinyiwu@mit.edu \diamond xinyiwu98.github.io

EDUCATION

Massachusetts Institute of Technology (MIT) Institute for Data, Systems and Society (IDSS) PhD Program in Social & Engineering Systems	Cambridge, MA 2020 —
Washington University in St. Louis Bachelor of Arts in Mathematics, <i>Summa Cum Laude</i> Second major: Economics	St. Louis, MO 2016 — 2020

RESEARCH INTERESTS

My main research interests include graph theory, dynamical systems, network science and machine learning. Recently I have been working on higher-order network modelling and analysis, and theory of graph representation learning.

PUBLICATIONS

2. **X. Wu**, Z. Chen, W. W. Wang, A. Jadbabaie, “A Non-Asymptotic Analysis of Oversmoothing in Graph Neural Networks.” To appear in *Proceedings of the 11th International Conference on Learning Representations (ICLR)*, 2023.
1. **X. Wu**, A. Sarker, A. Jadbabaie, “Link Partitioning on Simplicial Complexes Using Higher-Order Laplacians.” *Proceedings of the 22nd IEEE International Conference on Data Mining (ICDM)*, 2022.

HONORS

• IEEE ICDM Student Travel Award	2022
• Michael Hammer Fellowship, MIT	2020
• Phi Beta Kappa, Beta of Missouri at Washington University	2020
• Highest Distinction in Mathematics, Washington University in St. Louis	2020
• Distinction in Economics, Washington University in St. Louis	2020
• Ross Middlemiss Prize in Mathematics, Washington University in St. Louis	2020
• Brian Blank Prize in Mathematics, Washington University in St. Louis	2019

TEACHING

TA for 1.022 Introduction to Network Models (MIT)	Fall 2021, Fall 2022
---	----------------------

SERVICE

Reviewer for PAKDD 2023

SKILLS

Programming

- Python, MATLAB, R, Java, C++, STATA, \LaTeX

Languages

- English (fluent), Chinese (native), French (advanced)