XINYI WU

Curriculum Vitae (October 2022)

xinyiwu@mit.edu ◇ xinyiwu98.github.io

EDUCATION

Massachusetts Institute of Technology (MIT) — Cambridge, MA
Institute for Data, Systems and Society (IDSS) — 2020 —
PhD in Social & Engineering Systems

Washington University in St. Louis — St. Louis, MO
Bachelor of Arts in Mathematics, *Summa Cum Laude* — 2016 — 2020
Second major: Economics

RESEARCH INTERESTS

My main research interests include graph theory, 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," *under review*, 2022.
1. **X. Wu**, A. Sarker, A. Jadbabaie, "Link Partitioning on Simplicial Complexes Using Higher-Order Laplacians," *Proceedings of the 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

SKILLS

Programming

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

Languages

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