

## EDUCATION

- **University of Illinois Urbana-Champaign** School of Information Science, Illinois  
*Ph.D. Student in Information Science* Aug. 2023 - Present
  - **Advisor:** Jiaqi Ma
  - **Research Area:** AI Theory on Graphs & Theoretical Computer Science
- **University of Michigan** College of Engineering, Michigan  
*B.Sc. in Computer Science, Summa Cum Laude* Aug. 2021 - May. 2023
  - **Minor:** Mathematics, College of Literature, Science, and the Arts
- **Shanghai Jiao Tong University** UM-SJTU Joint Institute, Shanghai, China  
*B.Eng. in Electrical and Computer Engineering* Aug. 2019 - Aug. 2023
  - **Minor:** Computer Science, UM-SJTU Joint Institute

## SELECTED RESEARCH EXPERIENCE

- **Network Failure Detection** College of Engineering, Michigan  
*Undergraduate Researcher* Mar. 2022 - Sep. 2022
  - **General:** An improved algorithm on finding small balanced separator in almost linear time.
- **Deep Learning Foundation** College of Engineering, Michigan  
*Undergraduate Researcher* Mar. 2022 - Jan. 2023
  - **General:** Theoretical analysis on intrinsic dimension under isoperimetry assumptions, supported by SURE Program.

## TEACHING EXPERIENCE

- **EECS475 Introduction to Cryptography** College of Engineering, Michigan  
*Instructional Aide* Jan. 2023 - May. 2023
  - **General:** Hold discussion & office hour weekly for an upper-level 100+ student course on the main CS track.
  - **Topics:** Focuses on historic ciphers, symmetric encryption (pseudo-random generators, stream ciphers, pseudo-random functions/permutations), message authentication, cryptographic hash functions, and public key encryption.
- **EECS572 Randomness and Computation** College of Engineering, Michigan  
*Instructional Aide* Aug. 2022 - Dec. 2022
  - **General:** Hold discussion & office hour weekly for a graduate-level 70+ student course on the M.S. theory CS track.
  - **Topics:** Focuses on randomized algorithm and complexity, pseudo-random generator, applications in cryptography.
- **VV285 Honor Mathematics III** UM-SJTU Joint Institute, Shanghai, China  
*Instructional Aide* Mar. 2021 - Aug. 2021
  - **General:** Hold discussion & office hour weekly for a 150+ student rigorous analysis course on the main B.S. ECE track.
  - **Topics:** Focuses on linear algebra theory, topology, potentials and vector fields, higher derivatives, Riemann integral in  $\mathbb{R}^n$ , integration on curves and surfaces, Green, Stokes and Gauß theorem.
  - **Competition:** Hold the 1<sup>st</sup> UM-SJTU JIntegration Bee competition.
- **VV186 Honor Mathematics II** UM-SJTU Joint Institute, Shanghai, China  
*Instructional Aide* Sep. 2020 - Dec. 2020
  - **General:** Hold discussion & office hour weekly for a 200+ student rigorous analysis course on the main B.S. ECE track.
  - **Topics:** Focuses on one-variable real analysis, e.g., set theory, construction of  $\mathbb{R}$ ,  $\epsilon$ - $\delta$  definitions, uniform continuity, etc.

## SELECTED HONORS AND AWARDS

- **Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship** Shanghai, China  
*First Prize (Ranked #2) among all HK, MC and TW students in Shanghai Jiao Tong University* Oct. 2021
- **Undergraduate Excellent Scholarship** Shanghai, China  
*Third Prize among all students in UM-SJTU Joint Institute* Nov. 2020
- **Bao Gang Excellent Scholarship** Shanghai, China  
*Second Prize (Ranked #3) among all Taiwan students in Shanghai Jiao Tong University* Jun. 2020
- **Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship** Shanghai, China  
*First Prize (Ranked #1) among all HK, MC and TW students in UM-SJTU Joint Institute* Dec. 2019