







EDUCATION

- **University of Illinois Urbana-Champaign** **Illinois**
Ph.D. Student in Information Science, School of Information Science *Aug. 2023 – Present*
 - **Advisor:** Jiaqi Ma 
 - **Research Area:** Theoretical Artificial Intelligence & Theoretical Computer Science
- **University of Michigan** **Michigan**
B.Sc. in Computer Science, College of Engineering *Aug. 2021 – May 2023*
 - Graduate with *Summa Cum Laude*
 - **Minor:** Mathematics, College of Literature, Science, and the Arts
- **National Yang Ming Chiao Tung University** **Hsinchu, Taiwan**
Visiting Scholar *Jan. 2020 – Jul. 2020*
- **Shanghai Jiao Tong University** **Shanghai, China**
B.Eng. in Electrical and Computer Engineering, UM-SJTU Joint Institute *Aug. 2019 – Aug. 2023*
 - **Minor:** Computer Science, UM-SJTU Joint Institute

RESEARCH EXPERIENCE





- **Individual Research Group, University of Michigan** **Michigan**
Undergraduate Researcher *Mar. 2022 – Present*
 - **Advisor:** Thatchaphol Saranurak 
 - Design the first almost linear time algorithm on finding minimal balanced separator.
- **SURE Program  , University of Michigan** **Michigan**
Undergraduate Researcher *May 2022 – Apr. 2023*
 - **Advisor:** Wei Hu 
 - Theoretical analysis on intrinsic dimension under isoperimetry assumptions.
- **FORESEER Research Group  , University of Michigan** **Michigan**
Undergraduate Research Assistant *Dec. 2021 – Jan. 2023*
 - **Advisor:** Jiaqi Ma 
 - Prove the asymptotic separability of a 1-layer GCN on node classification tasks.

PRE-PRINTS AND TECHNICAL REPORTS

(* denotes equal contribution)

- [P1] **Pingbang Hu**, Thatchaphol Saranurak, “Finding Minimal Balanced Separators with Detection Sets”. *Manuscript*
- [P2] **Pingbang Hu**, “Travel the Same Path: A Novel TSP Solving Strategy”. *Preprint*

TEACHING EXPERIENCE

- **Instructional Aide, University of Michigan** **Michigan**
Hold discussion and office hour weekly, design assignment and exam problems, grade and guide projects.
 - **Introduction to Cryptography  :** An upper-level course on the main CS track. *Winter 2023*
 - **Randomness and Computation  :** A graduate-level course on the M.S. CS theory track. *Fall 2022*
- **Teaching Assistant, Shanghai Jiao Tong University** **Shanghai, China**
Hold discussion and office hour weekly, design and grade assignments and exams.
 - **Honor Mathematics III  :** An undergraduate-level course on the main B.Eng. ECE track. *Summer 2021*
 - **Honor Mathematics II  :** An undergraduate-level course on the main B.Eng. ECE track. *Fall 2020*

HONORS AND AWARDS

<ul style="list-style-type: none">• Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship <i>First Prize (Ranked #2) among all HK, MC and TW students in Shanghai Jiao Tong University</i>	Shanghai, China <i>Oct. 2021</i>
<ul style="list-style-type: none">• Undergraduate Excellent Scholarship <i>Third Prize among all students in UM-SJTU Joint Institute</i>	Shanghai, China <i>Nov. 2020</i>
<ul style="list-style-type: none">• Bao Gang Excellent Scholarship <i>Second Prize (Ranked #3) among all Taiwan students in Shanghai Jiao Tong University</i>	Shanghai, China <i>Jun. 2020</i>
<ul style="list-style-type: none">• Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship <i>First Prize (Ranked #1) among all HK, MC and TW students in UM-SJTU Joint Institute</i>	Shanghai, China <i>Dec. 2019</i>