

# Pingbang Hu



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## DEGREES

- **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 with Summa Cum Laude, College of Engineering* Aug. 2021 – May 2023
  - **Minor:** Mathematics, College of Literature, Science, and the Arts
- **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

## SELECTED RESEARCH EXPERIENCE

- **Finding Minimal Balanced Separators with Detection Sets** Michigan  
*College of Engineering, University of Michigan* Mar. 2022 – Present
  - **Advisor:** Thatchaphol Saranurak
- **Deep Learning Foundation** Michigan  
*SURE Program, College of Engineering, University of Michigan* May 2022 – Apr. 2023
  - **Advisor:** Wei Hu

## 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

- **EECS475 Introduction to Cryptography** Michigan  
*Instructional Aide, College of Engineering, University of Michigan* Jan. 2023 – May 2023
- **EECS572 Randomness and Computation** Michigan  
*Instructional Aide, College of Engineering, University of Michigan* Aug. 2022 – Dec. 2022
- **VV285 Honor Mathematics III** Shanghai, China  
*Teaching Assistant, UM-SJTU Joint Institute, Shanghai Jiao Tong University* Mar. 2021 – Aug. 2021
  - **Competition:** Hold the 1<sup>st</sup> UM-SJTU JIntegration Bee competition.
- **VV186 Honor Mathematics II** Shanghai, China  
*Teaching Assistant, UM-SJTU Joint Institute, Shanghai Jiao Tong University* Sep. 2020 – Dec. 2020

## 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