

# Pingbang Hu



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## 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 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

## RESEARCH AND INDUSTRY EXPERIENCE

- Sugiyama Laboratory, National Institute of Informatics** **Tokyo, Japan**
  - Research Intern* *May 2024 – Aug. 2024*
  - **Advisor:** Mahito Sugiyama
- Theory of Computation Laboratory, University of Michigan** **Michigan**
  - Undergraduate Researcher* *Mar. 2022 – Dec. 2023*
  - **Advisor:** Thatchaphol Saranurak
- SURE Program, University of Michigan** **Michigan**
  - Undergraduate Researcher* *May 2022 – Apr. 2023*
  - **Advisor:** Wei Hu
- FORESEER Research Group, University of Michigan** **Michigan**
  - Undergraduate Research Assistant* *Dec. 2021 – Jan. 2023*
  - **Advisor:** Jiaqi Ma
- Chief Noob** **Shanghai, China**
  - Backend Developer* *Oct. 2020 – June 2021*

## PRE-PRINTS AND TECHNICAL REPORTS

(\* denotes equal contribution)

- [P1] **Pingbang Hu**, Mahito Sugiyama, “Pseudo-Non-Linear Data Augmentation with Information Geometry”. *Preprint*
- [P2] Xinhe Wang, **Pingbang Hu**, Junwei Deng, Jiaqi Ma, “Adversarial Attacks on Data Attribution”. *Preprint*
- [P3] Yuzheng Hu\*, **Pingbang Hu\***, Han Zhao, Jiaqi Ma, “Most Influential Subset Selection: Challenges, Promises, and Beyond”. *In submission*
- [P4] Yiwen Tu\*, **Pingbang Hu\***, Jiaqi Ma, “Towards Reliable Empirical Machine Unlearning Evaluation: A Game-Theoretic View”. *In submission*
- [P5] **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 undergraduate 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

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<b>Excellent Internship Evaluation</b> ▪ <i>Best internship evaluation result in</i> National Institute of Informatics	<b>Tokyo, Japan</b> <i>Aug. 2024</i>
<b>Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship</b> ▪ <i>First Prize (Ranked #2) among all HK, MC and TW students in</i> Shanghai Jiao Tong University	<b>Shanghai, China</b> <i>Oct. 2021</i>
<b>Undergraduate Excellent Scholarship</b> ▪ <i>Third Prize among all students in</i> UM-SJTU Joint Institute	<b>Shanghai, China</b> <i>Nov. 2020</i>
<b>Bao Gang Excellent Scholarship</b> ▪ <i>Second Prize (Ranked #3) among all Taiwan students in</i> Shanghai Jiao Tong University	<b>Shanghai, China</b> <i>June 2020</i>
<b>Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship</b> ▪ <i>First Prize (Ranked #1) among all HK, MC and TW students in</i> UM-SJTU Joint Institute	<b>Shanghai, China</b> <i>Dec. 2019</i>

PROFESSIONAL SERVICE

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<b>Conference Reviewer</b> ▪ <i>ICML 2024, IEEE BigData 2023, ICLR 2025</i>
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