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*

PEER-REVIEWED CONFERENCE PUBLICATIONS (* denotes equal contribution)

[C1] Yuzheng Hu*, **Pingbang Hu***, Han Zhao, Jiaqi Ma, "Most Influential Subset Selection: Challenges, Promises, and Beyond". In *Proceedings of the 38th Advances in Neural Information Processing Systems* (NeurIPS 2024) (25.8% accepted rate)

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] Yiwen Tu*, **Pingbang Hu***, Jiaqi Ma, "Towards Reliable Empirical Machine Unlearning Evaluation: A Game-Theoretic View". *In submission* 📄

[P4] **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

Excellent Internship Evaluation   **Tokyo, Japan**
- *Best internship evaluation result in* National Institute of Informatics   *Aug. 2024*

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   *June 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*

Professional Service

Conference Reviewer
- *ICML 2024, IEEE BigData 2023, ICLR 2025, AAAI 2025*