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**: Trustworthy Machine Learning & Statistical Learning Theory

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) 📄

[C2] Junwei Deng*, Ting-Wei Li*, Shiyuan Zhang, Yijun Pan, Hao Huang, Xinhe Wang, **Pingbang Hu**, Xingjian Zhang, Jiaqi Ma, "`dattri`: A Library for Efficient Data Attribution". In *Proceedings of the 38th Advances in Neural Information Processing Systems Datasets and Benchmarks Track* (NeurIPS 2024) (**Spotlight**) 📄

PRE-PRINTS AND TECHNICAL REPORTS   (* denotes equal contribution)

[P1] **Pingbang Hu**, Mahito Sugiyama, "Pseudo-Non-Linear Data Augmentation via Energy Minimization". *In submission* 📄

[P2] Xinhe Wang, **Pingbang Hu**, Junwei Deng, Jiaqi Ma, "Adversarial Attacks on Data Attribution". *In submission* 📄

[P3] Yiwen Tu*, **Pingbang Hu**, Jiaqi Ma, "Towards Reliable Empirical Machine Unlearning Evaluation: A Game-Theoretic View". *In submission* 📄

[T1] **Pingbang Hu**, "Travel the Same Path: A Novel TSP Solving Strategy". *Technical Report* 📄

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

NeurIPS 2024 Scholar Award British Columbia, Canada
Financial Aid Award for NeurIPS 2024 *Oct. 2024*

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