

## EDUCATION

<b>University of Illinois Urbana-Champaign</b>	<b>Illinois</b>
▪ <i>Ph.D. Student in Information Science, School of Information Science</i>	<i>Aug. 2023 – Present</i>
◦ <b>Advisor:</b> Jiaqi Ma	
◦ <b>Research Area:</b> Theoretical Artificial Intelligence & Theoretical Computer Science	
<b>University of Michigan</b>	<b>Michigan</b>
▪ <i>B.Sc. in Computer Science with Summa Cum Laude, College of Engineering</i>	<i>Aug. 2021 – May 2023</i>
◦ <b>Minor:</b> Mathematics, College of Literature, Science, and the Arts	
<b>Shanghai Jiao Tong University</b>	<b>Shanghai, China</b>
▪ <i>B.Eng. in Electrical and Computer Engineering, UM-SJTU Joint Institute</i>	<i>Aug. 2019 – Aug. 2023</i>
◦ <b>Minor:</b> Computer Science, UM-SJTU Joint Institute	

## RESEARCH AND INDUSTRY EXPERIENCE

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




## 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 via Energy Minimization”. *In submission*
- [P2] 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 submission*
- [P3] Xinhe Wang, **Pingbang Hu**, Junwei Deng, Jiaqi Ma, “Adversarial Attacks on Data Attribution”. *Preprint* 
- [P4] 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

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

HONORS AND AWARDS

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

PROFESSIONAL SERVICE

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