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RESEARCH INTEREST

Machine Learning

Explainable Machine Learning, Trustworthy Machine Learning, Graph Learning, Statistical Learning Theory

Theoretical Computer Science

Fast Graph Algorithm, Approximation Algorithm, Hardness of Approximation, Learning Theory

EDUCATION

University of Illinois Urbana-Champaign

Ph.D. Student in Information Science, School of Information Science

o Advisor: Jiaqi Ma

University of Michigan

B.Sc. in Computer Science with Summa Cum Laude, College of Engineering

o Minor: Mathematics, College of Literature, Science, and the Arts

National Yang Ming Chiao Tung University

Visiting Scholar

Shanghai Jiao Tong University

B.Eng. in Electrical and Computer Engineering, UM-SJTU Joint Institute

o Minor: Computer Science, UM-SJTU Joint Institute

Illinois

Aug. 2023–Present

Michigan

Aug. 2021–May 2023

Hsinchu, Taiwan

Jan. 2020–Jul. 2020

Shanghai, China

Aug. 2019-Aug. 2023

RESEARCH AND INDUSTRY EXPERIENCE

Sugiyama Laboratory, National Institute of Informatics

Research Intern

o Advisor: Mahito Sugiyama

Theory of Computation Laboratory, University of Michigan

Undergraduate Researcher

o Advisor: Thatchaphol Saranurak

SURE Program, University of Michigan

 $Under graduate\ Researcher$

o Advisor: Wei Hu

FORESEER Research Group, University of Michigan

* Undergraduate Research Assistant

Advisor: Jiaqi Ma

Chief Noob

Backend Developer

Tokyo, Japan

May 2024-Aug. 2024

Michigan *Mar. 2022–Dec. 2023*

Michigan

May 2022–Apr. 2023

Michigan

Dec. 2021-Jan. 2023

Shanghai, China

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)
- [C3] Xinhe Wang, Pingbang Hu, Junwei Deng, Jiaqi Ma, "Adversarial Attacks on Data Attribution". In 2nd Workshop on Attributing Model Behavior at Scale at the Advances in Neural Information Processing Systems (ATTRIB@NeurIPS 2024)

Pre-prints and Technical Reports

(* denotes equal contribution)

- [P1] Pingbang Hu, Mahito Sugiyama, "Pseudo-Non-Linear Data Augmentation via Energy Minimization". In submission
- [P2] 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

| Graduate Teaching Assistant, University of Illinois Urbana-Champaign Hold discussion and office hour weekly, design assignment and exam problems, grade and guide properties. | ${\bf Illinois} \\ {\it rojects}.$ |
|--|---|
| • Network Analysis: A graduate-level course on the M.S. IS track. | $Spring\ 2025$ |
| Instructional Aide, University of Michigan Hold discussion and office hour weekly, design assignment and exam problems, grade and guide properties. | Michigan rojects. |
| • Introduction to Cryptography: An upper-level course on the main undergraduate CS to | rack. Winter 2023 |
| \circ Randomness and Computation: A graduate-level course on the M.S. CS theory track. | Fall 2022 |
| Teaching Assistant, Shanghai Jiao Tong University Hold discussion and office hour weekly, design and grade assignments and exams. | Shanghai, China |
| \circ Honor Mathematics III: An undergraduate-level course on the main B.Eng. ECE track. | Summer 2021 |
| * Competition: Hold the 1 st UM-SJTU JIntegration Bee competition. | |
| \circ Honor Mathematics II: An undergraduate-level course on the main B.Eng. ECE track. | Fall 2020 |
| | |
| Honors and Awards | |
| Graduate Conference Travel Award | Illinois |
| | Illinois Nov. 2024 |
| Graduate Conference Travel Award Graduate College's Competition in University of Illinois Urbana-Champaign | |
| Graduate Conference Travel Award Graduate College's Competition in University of Illinois Urbana-Champaign NeurIPS 2024 Scholar Award | Nov. 2024 British Columbia, Canada |
| Graduate Conference Travel Award Graduate College's Competition in University of Illinois Urbana-Champaign NeurIPS 2024 Scholar Award Financial Aid Award for NeurIPS 2024 Excellent Internship Evaluation | Nov. 2024 British Columbia, Canada Oct. 2024 Tokyo, Japan Aug. 2024 Shanghai, China |

Shanghai, China

Shanghai, China

June 2020

Dec. 2019

PROFESSIONAL SERVICE

Program Committee

AAAI 2025

Conference Reviewer

ICML 2024, IEEE BigData 2023, ICLR 2025

Bao Gang Excellent Scholarship

Second Prize (Ranked #3) among all Taiwan students in Shanghai Jiao Tong University

Hong Kong, Macao and Taiwan Overseas Chinese Student Scholarship

* First Prize (Ranked #1) among all HK, MC and TW students in UM-SJTU Joint Institute