

Mingchen Ma

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EDUCATION

University of Wisconsin-Madison, Department of Computer Sciences

Madison, WI, USA

Ph.D. Student, Computer Science, Advisor: [Christos Tzamos](#), [Ilias Diakonikolas](#)

2021- present

Nanjing University, Department of Mathematics

Nanjing, Jiangsu, China

B.S., Major: Computational Mathematics

2016- 2020

RESEARCH INTEREST

Machine Learning and Theoretic Computer Sciences

Recent Research Focus: 1. Designing provably fast and robust machine learning algorithms 2. Designing learning algorithms with low label complexity using interactive learning frameworks

EXPERIENCE

Shanghai University of Finance and Economics, [ITCS](#)

Yangpu, Shanghai, China

Visiting Student, Host: [Nick Gravin](#), [Zhihao Tang](#) and [Xiao Wang](#)

2020- 2021

PUBLICATIONS AND MANUSCRIPTS

(Author orders for all papers are alphabetical)

- Active Learning of General Halfspaces: Label Queries vs Membership Queries,
with I.Diakonikolas, D.Kane,
Advances in Neural Information Processing Systems (NeurIPS 2024)
- Active Classification with Few Queries under Misspecification,
with VKontonis, C. Tzamos,
Advances in Neural Information Processing Systems (NeurIPS 2024)
(Selected for Spotlight Presentation)
- Active Learning with Simple Questions,
with VKontonis, C. Tzamos,
Proceedings of the 37th Annual Conference on Learning Theory (COLT 2024)
- Fast Co-Training under Weak Dependence via Stream-Based Active Learning,
with I.Diakonikolas, L. Ren, C.Tzamos,
Proceedings of the 41th International Conference on Machine Learning (ICML 2024)
(Selected for Oral Presentation)
- [The Gain from Ordering for Online Learning](#),
with VKontonis, C.Tzamos,
Advances in Neural Information Processing Systems (NeurIPS 2023)

- [Buying Information for Stochastic Optimization](#) ,
with C.Tzamos,
Proceedings of the 40th International Conference on Machine Learning (ICML 2023)
(Selected for Oral Presentation)
- [Clustering with Queries under Semi-Random Noise](#),
with A. Del Pia, C.Tzamos,
Proceedings of the 35th Annual Conference on Learning Theory (COLT 2022)
- [k–median: exact recovery in the extended stochastic ball model](#),
with A. Del Pia,
Mathematical Programming Series A 2022
- [Proximity in Concave Integer Quadratic Programming](#),
with A. Del Pia,
Mathematical Programming Series A 2021

AWARDS AND HONORS

- NeurIPS 2023 Scholar Award, 2023
- Student Research Grants Competition (SRGC) Award, 2023
- UW Madison CS Departmental Research Fellowship, 2021
- Outstanding Graduate at Nanjing University, 2020
- Elite Program Scholarship, 2017-2018, 2018-2019
- People’s Scholarship, 2018-2019
- Sumsung Scholarship, 2017-2018
- Outstanding Student at Nanjing University, 2017-2018

TALKS

- Active Learning with Simple Questions, COLT 2024
- Fast Co-Training under Weak Dependence via Stream-Based Active Learning, ICML 2024
- Buying Information for Stochastic Optimization, ICML 2023
- Clustering with Queries under Semi-Random Noise, COLT 2022
- Proximity in Concave Integer Quadratic Programming, MIP 2021, IPCO 2021, INFORMS Annual Meeting

PROFESSIONAL ACTIVITIES

- Conference Reviewer: International Conference on Learning Representations (ICLR) 2025,
Neural Information Processing Systems (NeurIPS) 2024,
Innovations in Theoretical Computer Science (ITCS) 2023, 2025,
ACM Symposium on Theory of Computing (STOC) 2023
- Journal Reviewer:
Mathematical Programming

TEACHING

- CS 726 Nolinear Optimization I, Teaching Assistant, UW-Madison, Spring 2022
- CS 513 Numerical Linear Algebra, Teaching Assistant, UW-Madison, Spring 2024

SKILLS

- **Programming Languages:** C++, MATLAB, Python, Mathematica
- **Software:** LaTeX, Microsoft Office
- **Language:** Chinese, English