

# Mingji Yang

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📍 Beijing, China

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## EDUCATION

- **Gaoling School of Artificial Intelligence, Renmin University of China**

*Ph.D. candidate in artificial intelligence*

*Beijing, China*

*Sept. 2022 to present*

- Advisors: [Ji-Rong Wen](#) and [Zhewei Wei](#)

- Research Interests: spectral graph algorithms, sublinear-time algorithms

- **Turing Class, School of Information, Renmin University of China**

*B.E. in computer science and technology*

*Beijing, China*

*Sept. 2018 to June 2022*

- GPA: 3.89/4.0 (Rank: 2/163)

## VISITING

- **Institute for Theoretical Computer Science, Shanghai University of Finance and Economics**

*Visiting student advised by [Tsz Chiu Kwok](#)*

*Shanghai, China*

*Feb. 2025 to June 2025*

## PUBLICATIONS

- **On Solving Asymmetric Diagonally Dominant Linear Systems in Sublinear Time<sup>1</sup>**

*To Appear in Proceedings of the 17th Innovations in Theoretical Computer Science Conference, ITCSC 2026*

*Jan. 2026*

- Tsz Chiu Kwok, Zhewei Wei, Mingji Yang

- **PageRank Centrality in Directed Graphs with Bounded In-Degree**

[10.1137/1.9781611978971.140](https://doi.org/10.1137/1.9781611978971.140) (*Proceedings of the 2026 ACM-SIAM Symposium on Discrete Algorithms, SODA 2026*)

*Jan. 2026*

- Mikkel Thorup, Hanzhi Wang, Zhewei Wei, Mingji Yang

- **Efficient Algorithms for Personalized PageRank Computation: A Survey<sup>2</sup>**

[10.1109/TKDE.2024.3376000](https://doi.org/10.1109/TKDE.2024.3376000) (*IEEE Transactions on Knowledge and Data Engineering, TKDE*)

*Sept. 2024*

- Mingji Yang, Hanzhi Wang, Zhewei Wei, Sibo Wang, Ji-Rong Wen

- **Revisiting Local Computation of PageRank: Simple and Optimal**

[10.1145/3618260.3649661](https://doi.org/10.1145/3618260.3649661) (*Proceedings of the 56th Annual ACM Symposium on Theory of Computing, STOC 2024*)

*June 2024*

- Hanzhi Wang, Zhewei Wei, Ji-Rong Wen, Mingji Yang

- **Approximating Single-Source Personalized PageRank with Absolute Error Guarantees**

[10.4230/LIPIcs.ICALT.2024.9](https://doi.org/10.4230/LIPIcs.ICALT.2024.9) (*Proceedings of the 27th International Conference on Database Theory, ICALT 2024*)

*Mar. 2024*

- Zhewei Wei, Ji-Rong Wen, Mingji Yang

<sup>1</sup>Authors are ordered alphabetically with equal contributions by default.

<sup>2</sup>Authors are ordered by contribution for this paper.

## SELECTED HONORS AND AWARDS

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- Silver Medal in ICPC (International Collegiate Programming Contest) Asia-East Continent Final, 2018, 2019, 2020, ICPC Foundation
- Gold Medal in ICPC Asia Regional Contest (twice), 2019, ICPC Foundation
- China National Scholarship, 2019, Ministry of Education of the People's Republic of China
- CCF (China Computer Federation) Elite Collegiate Award, 2021, CCF
- Gold Medal in CCF Collegiate Computer Systems & Programming Contest, 2021, CCF
- Silver Medal (Category D) in Chinese National Olympiad in Informatics, 2017, CCF
- Outstanding Graduate Student of Beijing, 2022, Beijing Municipal Education Commission

## ACADEMIC SERVICES

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- Reviewer: ICLR 2025/2026, ICML 2024

## TEACHING EXPERIENCES

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- School of Information, Renmin University of China Beijing, China  
Feb. 2023 to July 2023  
*Teaching Assistant for Course "Program Design Practice"*
- Gaoling School of Artificial Intelligence, Renmin University of China Beijing, China  
Feb. 2022 to July 2022  
*Teaching Assistant for Course "Algorithm Design and Analysis"*
- School of Information, Renmin University of China Beijing, China  
Feb. 2021 to July 2021  
*Teaching Assistant for Course "Data Structure and Algorithms II (Honor Course)"*

## SKILLS

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- Languages: Chinese (native), English (fluent, 634/750 points in College English Test-6)
- Programming Languages: C/C++ (500/500 points in CCF Certified Software Professional), Python