Mingji Yang

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EDUCATION

- **Gaoling School of Artificial Intelligence, Renmin University of China** *Beijing, China*
  Ph.D. candidate in artificial intelligence *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** *Beijing, China*
  B.E. in computer science and technology *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** *Shanghai, China*
  Visiting student advised by Tsz Chiu Kwok ↗ *Feb. 2025 to June 2025*

PUBLICATIONS

- **On Solving Asymmetric Diagonally Dominant Linear Systems in Sublinear Time**[1] *Jan. 2026*
  To Appear in Proceedings of the 17th Innovations in Theoretical Computer Science Conference, ITCS 2026
  - Tsz Chiu Kwok, Zhewei Wei, **Mingji Yang**

- **PageRank Centrality in Directed Graphs with Bounded In-Degree** *Jan. 2026*
  To Appear in Proceedings of the 2026 ACM-SIAM Symposium on Discrete Algorithms, SODA 2026
  - Mikkel Thorup, Hanzhi Wang, Zhewei Wei, **Mingji Yang**

- **Efficient Algorithms for Personalized PageRank Computation: A Survey**[2] *Sept. 2024*
  10.1109/TKDE.2024.3376000 ↗ (IEEE Transactions on Knowledge and Data Engineering, TKDE)
  - **Mingji Yang**, Hanzhi Wang, Zhewei Wei, Sibo Wang, Ji-Rong Wen

- **Revisiting Local Computation of PageRank: Simple and Optimal** *June 2024*
  10.1145/3618260.3649661 ↗ (Proceedings of the 56th Annual ACM Symposium on Theory of Computing, STOC 2024)
  - Hanzhi Wang, Zhewei Wei, Ji-Rong Wen, **Mingji Yang**

- **Approximating Single-Source Personalized PageRank with Absolute Error Guarantees** *Mar. 2024*
  10.4230/LIPIcs.ICDT.2024.9 ↗ (Proceedings of the 27th International Conference on Database Theory, ICDT 2024)
  - Zhewei Wei, Ji-Rong Wen, **Mingji Yang**

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[1] Authors are ordered alphabetically with equal contributions by default.
[2] Authors are ordered by contribution for this paper.

Selected Honors and Awards

- **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

- **Reviewer**: ICLR 2025, ICML 2024

Teaching Experiences

- **School of Information, Renmin University of China**   *Beijing, China*
  Teaching Assistant for Course "Program Design Practice"   *Feb. 2023 to July 2023*

- **Gaoling School of Artificial Intelligence, Renmin University of China**   *Beijing, China*
  Teaching Assistant for Course "Algorithm Design and Analysis"   *Feb. 2022 to July 2022*

- **School of Information, Renmin University of China**   *Beijing, China*
  Teaching Assistant for Course "Data Structure and Algorithms II (Honor Course)"   *Feb. 2021 to July 2021*

Skills

- **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