Yuanzheng Wang

Department of Mathematics, MIT
Personal homepage: <https://yuanzheng-wang.github.io/>
Email: yuanz210@mit.edu

Education

Massachusetts Institute of Technology   **Sep. 2024 – Current**
Ph.D. in Mathematics   *Cambridge, Massachusetts*

Peking University   **Sep. 2020 – July 2024**
B.S. in Mathematics   *Beijing, China*

Research Interests

Probability Theory and its intersections with Statistical Physics, Analysis and Combinatorics.

Articles

Research Papers

1. **Sharp asymptotics of disconnection time of a cylinder by simple and biased random walk** (with Xinyi Li and Yu Liu), *submitted*, arxiv: 2409.17900, 2024. Link available here.

2. **Efficiently matching random inhomogeneous graphs via degree profiles** (with Jian Ding and Yumou Fei), *submitted*, arxiv:2310.10441, 2023. Link available here.

Expository Writings

1. **Notes on conformal welding of Liouville quantum gravity surfaces**, REU paper, mentored by Ewain Gwynne, 2023. Link available here.

Honors and Awards

- National Scholarship   2023
- Gold Medal in the 35th China Mathematical Olympiad   2019

Talks and Seminars

1. School of Statistics at East China Normal University, Academic Lecture   Apr. 2024
2. Academy of Mathematics and System Sciences, CAS Colloquia & Seminars   Nov. 2022

Mentorship

- Teaching Assistant in Yau Matcamp, SIMIS   Jul. 2024 – Aug. 2024