Mingyuan Rong

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Ph.D. Candidate
in Mathematics

Education

2021–2026 (Expected)	**Ph.D. in Mathematics**, *University of Science and Technology of China (USTC)*, Hefei, Anhui, China. *Advisor:* Prof. Jie Ma
2025–2026 (Expected)	**Visiting Student Researcher**, *University of Warwick*, Coventry, UK. *Host and Research Mentor:* Prof. Oleg Pikhurko
2017–2021	**B.Sc. in Mathematics**, *University of Science and Technology of China (USTC)*, Hefei, Anhui, China.

Research Interests

Extremal Set Theory, Extremal Graph Theory

Awards and Honors

2025–2026	**Excellent Ph.D. Students Overseas Study Fellowship, USTC**, *A university-wide, fully funded fellowship for a one-year research visit. Awarded as one of 20 First-tier recipients*.

Publications

Preprints

- Mingze Li, Jie Ma, and **Mingyuan Rong**. Recent advances in arrow relations and traces of sets. arXiv:2507.23375 [math.CO], 2025.
- Wenchong Chen, **Mingyuan Rong**, and Zixiang Xu. Optimal stability results on color-biased Hamilton cycles. arXiv:2507.17739 [math.CO], 2025.
- Xinqi Huang, Yuzhen Qi, **Mingyuan Rong**, and Zixiang Xu. Largest dyadic dual VC-dimension of non-piercing families. arXiv:2506.13606 [math.CO], 2025.
- Xinqi Huang, Hong Liu, **Mingyuan Rong**, and Zixiang Xu. Interpolating chromatic and homomorphism thresholds. arXiv:2502.09576 [math.CO], 2025.
- Mingze Li, Jie Ma, and **Mingyuan Rong**. Exact results on traces of sets. arXiv:2406.18870 [math.CO], 2024.
- Xinbu Cheng, Xinqi Huang, **Mingyuan Rong**, and Zixiang Xu. Sublinear hitting sets for some geometric graphs. arXiv:2404.10379 [math.CO], 2024.
- Guorong Gao, Jie Ma, **Mingyuan Rong**, and Tuan Tran. Variants of VC dimension and their applications to dynamics. arXiv:2310.05353 [math.CO], 2023.

In Preparation

- Jie Ma and **Mingyuan Rong**. On codegree Turán density of tight cycle and tight cycle minus.

Academic Presentations

Mar. 2025 ***Interpolating chromatic and homomorphism thresholds***, *SCMS Student Combinatorics Seminar*, Shanghai Center for Mathematical Sciences.

Professional Service

Referee for *Discrete Mathematics*