

Curriculum Vitae of Rongxing Xu

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Contact Information

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Research interests

I am interested in structural/extremal graph theory, graph coloring, graph decomposition...

Employments

- 12/2025 - Present: Associate professor
School of Mathematical Sciences,
Zhejiang Normal University
- 07/2023 - 12/2025: Lecturer
School of Mathematical Sciences,
Zhejiang Normal University
- 07/2021 - 06/2023: Postdoctoral Fellow, Advisor: Prof. Jie Ma
School of Mathematical Sciences,
University of Science and Technology of China

Education

- 09/2017-06/2021: Ph.D. in Mathematics, Advisor: Prof. Xuding Zhu
Department of Mathematics, Zhejiang Normal University
- 09/2014-06/2017: M.Sc. in Mathematics, Advisor: Prof. Xinzhong Lv
Department of Mathematics, Zhejiang Normal University
- 09/2010-06/2014: B.Sc. in Mathematics
Department of Mathematics, Henan University

Research Visits

- 10/2018 - 09/2020: Visiting Ph.D. student, IRIF, Université de Paris worked with Prof. Reza Naserasr supported by China Scholarship Council (CSC)
- 01/2019 - 03/2019: École Normale Supérieure (Paris), worked with Prof. Pierre Aboulker
- 12/2019 & 02/2020: University of Ljubljana, worked with Prof. Riste Škrekovski two times, together for four weeks

Preprints

1. Xiaolan Hu, **Rongxing Xu**, The strong fractional choice number of triangle-free planar graphs. *Submitted*, 2026.
2. Masaki Kashima , Riste Skrekovski and **Rongxing Xu**, Degree-choosability of proper conflict-free list coloring of sparse graphs *Submitted*, 2026.
3. Guanwu Liu, **Rongxing Xu**, Partitioning triangle-free planar graphs into a forest and a linear forest. *Submitted*, 2025.
4. Jie Ma, **Rongxing Xu**, Proof of a conjecture of Voss on bridges of longest cycles. *Submitted*, 2025.
5. Masaki Kashima , Riste Skrekovski and **Rongxing Xu**, Results on proper conflict-free list coloring of graphs, *Submitted*, 2025.

Publications

1. Masaki Kashima , Riste Skrekovski and **Rongxing Xu**, Proper conflict-free degree-choosability of outerplanar graphs. *Discrete Math.* 349 (2026), no. 3, Paper No. 114800.
2. Masaki Kashima , Riste Skrekovski and **Rongxing Xu**, Remarks on proper conflict-free degree-choosability of graphs with prescribed degeneracy. *Discrete Math.* 349 (2026), no. 6, Paper No. 115003.
3. **Rongxing Xu**, Xuding Zhu, Decomposition of triangle-free planar graphs. *European Journal of Combinatorics*, to appear, 2025.
4. Jie Ma, **Rongxing Xu** and Xuding Zhu, On Two problems of defective choosability. *Journal of Graph Theory*, 108, 2, 313– 324 (2025).
5. Florent Foucaud, Reza Naserasr, **Rongxing Xu**, Extended Double Cover and homomorphism bounds. *Electronic Journal of Combinatorics*, 30 (3) (2023) # P3.31.
6. Reza Naserasr, Riste Škrekovski, Zhouninxin Wang, **Rongxing Xu**. Mapping sparse signed graphs to (K_{2k}, M) . *Journal of Graph Theory*, 104, 3, 611– 644 (2023).
7. **Rongxing Xu**, Xuding Zhu, The strong fractional choice number and the strong fractional paint number of graphs. *SIAM Journal on Discrete Mathematics.* 36(4),2022, 2585-2601.

8. **Rongxing Xu**, Xuding Zhu, The strong fractional choice number of 3-choice-critical graphs. *Journal of Graph Theory*. 2022; 1-28.
9. **Rongxing Xu**, Xuding Zhu, Multiple list coloring of 3-choice critical graphs. *Journal of Graph Theory*. 2020; 95:638-654.
10. **Rongxing Xu**, Yeong-Nan Yeh, Xuding Zhu, List colouring and generalized Dyck paths. *Discrete Mathematics*. 341(2018) 810-819.
11. **Rongxing Xu**, Xuding Zhu, Bounded Greedy Nim Game. *Theoretical Computer Science*. 746 (2018) 1–5.
12. Xinzhong Lv, **Rongxing Xu**, Xuding Zhu, Greedy Nim_k Game. *Journal of Combinatorial Optimization*. 35(4):1241-1249,2018.

Talks

- Zhejiang University of Science & Technology, Hangzhou, Dec 2025 (invited by Prof. Xiaoxue Hu).
Partitioning triangle-free planar graphs into a forest and a linear forest.
- Tongji University, Shanghai, Nov 2025 (invited by Prof. On-Hei Solomon Lo).
Proof of a conjecture of Voss on bridges of longest cycles.
- Fuzhou University, Online, Sep 2025 (invited by Prof. Rong Chen).
Proof of a conjecture of Voss on bridges of longest cycles.
- CSIAM Activity Group on Graph Theory and Combinatorics with Applications 2022 Annual conference, Online, Dec 2022.
Decomposition of triangle-free planar graphs.
- Chinese Mathematics Society 2021 Annual Conference - Graph and Combinatorics satellite meeting, Kunming, Yunnan, October, 2021.
The strong fractional choice number of graphs.
- Fifth Macedonian Workshop on Graph Theory and Applied Mathematics, Online, Sep, 2021.
The strong fractional choice number of graphs.
- CanaDAM, Online, May, 2021.
The strong fractional choice number of graphs.
- IRIF Seminar, Paris, September, 2020.
Multiple list colouring of 3-choice critical graphs.
- Midsummer Combinatorial Workshop XXIV, Prague, Czech Republic, August, 2019.
Homomorphism of K_4 -minor-free graphs

Teaching

- Operational Research, Spring 2026, for international graduate students in Mathematics.
- Operational Research, Fall 2025, for undergraduate students in the School of Mathematical Sciences.
- Extremal Graph Theory, Spring 2025, for graduate students in the School of Mathematical Sciences.
- Linear Algebra, Fall 2024, for international undergraduate students in the School of Computer Science.

Grants

- National Natural Science Foundation for Young Scientists of China, 300,000 (RMB) 1/1/2025–31/12/2027.
- Zhejiang Provincial Natural Science Foundation of China, 60,000(RMB) 1/1/2025–31/12/2026.
- Research Start-up Fund of Zhejiang Normal University, 100,000(RMB) 18/10/2023–18/10/2027.

Services

Referee for:

- SIAM Journal on Discrete Mathematics,
- Journal of Graph Theory,
- Theoretical Computer Science.
- Electronic Journal of Combinatorics
- EUROCOMB'25
- WG 2026