

Curriculum Vitae: **Li, Jiaao**

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Contact Information

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Research Interests

Combinatorics, Graph Theory, Combinatorial Optimization

Education

- **2014–2018:** Ph.D. in Mathematics, West Virginia University (USA)
- **2012–2014:** M.S. in Applied Mathematics, University of Science and Technology of China (USTC)
- **2008–2012:** B.S. in Mathematics and Applied Mathematics, University of Science and Technology of China (USTC)

Professional Experience

- **2022.12–Present:** Professor & Ph.D. Supervisor, School of Mathematical Sciences, Nankai University
- **2020.12–2022.12:** Associate Professor & Ph.D. Supervisor (appointed June 2022), School of Mathematical Sciences, Nankai University

- **2018.09–2020.12:** Lecturer, School of Mathematical Sciences, Nankai University

Grants Received

- National Natural Science Foundation of China
(Nos. 12222108, 11901318)
- Young Elite Scientists Sponsorship Program by Tianjin (TJSQNTJ-2020-09)
- Natural Science Foundation of Tianjin
(Nos. 24JCJQJC00130, 22JCYBJC01520, 19JCQNJC14100)

Recent Publications

2024

Jiaao Li, R. Naserasr, Z. Wang, and X. Zhu, Circular flows in mono-directed signed graphs, *Journal of Graph Theory*, 106 (2024) 686-710.

Jiaao Li, Y. Shi, Z. Wang, and C. Wei, Homomorphisms to small negative even cycles, *European Journal of Combinatorics*, 118 (2024) 103941.

Jiaao Li, Y. Ma, Z. Miao, Y. Shi, and W. Wang, Nowhere-zero 3-flows in signed planar graphs, *Electronic Journal of Combinatorics* 31 (2024) No. 2.47.

2023

X. Hu, Jiaao Li*, Fractional Coloring Planar Graphs under Steinberg-type Conditions, *Acta Mathematica Sinica, English Series*, 39(5) (2023), 904-922.

2022

Jiaao Li, Y. Ma, Y. Shi, Z. Miao, W. Wang, C.-Q. Zhang, Nowhere-zero 3-flows in Toroidal Graphs, *Journal of Combinatorial Theory Series B*, 153 (2022), 61-80.

Jiaao Li*, X. Li, M. Wang, The Flow Index of Class I Regular Graphs, *SIAM Journal on Discrete Mathematics*, 36 (2022), 1991-2003.

X. Hu, Jiaao Li*, Circular Coloring and Fractional Coloring in Planar Graphs, *Journal of Graph Theory*, 99 (2022), 312-343.

Jiaao Li, Y. Ma, Y. Shi, W. Wang, Y. Wu, On 3-flow-critical Graphs, *European Journal of Combinatorics*, 100 (2022), 103451.

2021

M. DeVos, Jiaao Li*, Y. Lu, R. Luo, C.-Q. Zhang, Z. Zhang, Flows on Flow-admissible Signed Graphs, *Journal of Combinatorial Theory Series B*, 149 (2021), 192-221.

M. Han, Jiaao Li, R. Luo, Y. Shi, C.-Q. Zhang, Integer flows and modulo orientations of signed graphs, *SIAM Journal on Discrete Mathematics*, 35 (2021), 376-391.

M. Han, Jiaao Li*, X. Li, M. Wang, Group Connectivity under 3-edge-connectivity, *Journal of Graph theory*, 96 (2021), 438-450.

2020

Jiaao Li, Y.Wu, C.-Q. Zhang, Circular Flows via Extended Tutte Orientations, *Journal of Combinatorial Theory Series B*, 145 (2020), 307-322.

Jiaao Li, Flow Extensions and Group Connectivity with Applications, *European Journal of Combinatorics*.89 (2020), 103164.

D. Cranston, Jiaao Li*, Circular Flows in Planar Graphs, *SIAM Journal on Discrete Mathematics*, 34 (2020), 497-519.

R. Gu, Jiaao Li*, Y. Shi, Anti-Ramsey Numbers of Paths and Cycles in Hypergraphs, *SIAM Journal on Discrete Mathematics*, 34 (2020), 271-307.

Jiaao Li*, X. Li, M. Wang, Complementary Graphs with Flow Less Than Three, *Discrete Mathematics*, 343 (2020), 111809.