

# Ju Zhang—Curriculum Vitae

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## Research Interests

Finite Groups, Permutation Groups, Symmetry of Graphs, Token Graphs

## Education

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| <b>Beijing Jiaotong University</b>                 | Beijing, P. R. China |
| Doctoral candidate in Mathematics                  | 2019 – 2026          |
| • Supervisor: Prof. Jin-Xin Zhou                   |                      |
| • Thesis: <i>On the symmetry of k-token graphs</i> |                      |

## Publications & Preprints

1. **Ju Zhang**, Jin-Xin Zhou, *Edge-transitive token graphs*, Discrete Mathematics 345 (2022) 113043.
2. **Ju Zhang**, Jin-Xin Zhou, Yan-Tao Li, Young Soo Kwon, *The automorphisms of 2-token graphs*, Applied Mathematics and Computation 446 (2023) 127872.
3. Na Li, **Ju Zhang**, Jin-Xin Zhou, *Cubic normal bi-Cayley graphs and bi-normal Cayley graphs*, Advances in Mathematics (China) 52(2023) no.5.
4. **Ju Zhang**, Jin-Xin Zhou, Jaeun Lee, Yan-Tao Li, Jin-Hua Xie, *Automorphism group of 2-token graph of the Hamming graph*, Discrete Mathematics 347 (2024) 113689.
5. **Ju Zhang**, Young Soo Kwon, Jin-Xin Zhou, *Automorphism groups of 2-token graph of Cartesian product of two cycles*, Graphs and Combinatorics 41 (2025) 77.
6. **Ju Zhang**, Young Soo Kwon, Jin-Xin Zhou, *Automorphism groups of a class of 2-token graphs*, Submitted.

## Honors and Awards

- **Third Prize**, *10th National Mathematics Competition for College Students (Mathematics Track)*, China, 2018
- **Second Prize**, *China Undergraduate Mathematical Contest in Modeling (CUMCM), Higher Education Press Cup, Undergraduate Division*, 2017

## Academic Visits

- The University of Melbourne, Australia, CSC Visiting PhD Student (China Scholarship Council), supervised by Dr. Binzhou Xia, Oct 2024 – Oct 2025
- Jeju National University, South Korea, Visiting Student hosted by Prof. Hosoo Lee, 2024
- Yeungnam University, South Korea, Visiting Student hosted by Prof. Young Soo Kwon, 2024

## Talks and Presentations

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- The 3rd Peking University Frontiers in Mathematics Doctoral Student Academic Exchange Conference, Peking University, China, Selected Talk, Nov 2025
- The 2nd Xiangtan University Doctoral Forum on Mathematical Sciences, Xiangtan University, China, Participant, Nov 2025
- The 11th National Conference on Combinatorics and Graph Theory (China), Shandong University, China, Participant, Sept 2024
- The 4th International Conference on Group Actions and Transfer Graphs, Southern University of Science and Technology, China, Contributed Talk, Aug 2024
- International Conference “Graphs and Groups, Complexity and Convexity (G2C2)”, Hebei Normal University, China, Contributed Talk, Nov 2023
- International Conference on Graph Theory, Jeju National University, South Korea, Invited Talk, Feb 2024
- The 10th Workshop on Matrix Theory and Spectral Graph Theory, Shandong University of Technology, China, Participant, Aug 2023
- 2023 Annual Meeting of the Graph Theory and Combinatorics Branch, Operations Research Society of China, Taiyuan University of Technology, China, Contributed Talk, Jul 2023
- The 8th European Congress of Mathematics (ECM 8), Portorož, Slovenia (online via Zoom Meeting), Participant, Jun 2021

## Teaching Experience

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### Teaching Assistant, BJTU

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|---------------------------------|-------------|
| • Linear Algebra                | Fall 2019   |
| • Contemporary Abstract Algebra | Spring 2020 |
| • Linear Algebra                | Fall 2020   |
| • Contemporary Abstract Algebra | Spring 2021 |
| • Linear Algebra                | Fall 2021   |
| • Contemporary Abstract Algebra | Spring 2022 |

## Research Projects

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Project Title: “*Symmetry of  $k$ -Token Graphs*”, Graduate Innovation Project, Principal Investigator, Beijing Jiaotong University, Apr 2023 – Mar 2025