

# **Yue Jiao**

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## **EDUCATION**

- **Max Planck Institute of Molecular Cell Biology and Genetics** 2025 - 2029(expected)  
Dresden, Germany  
*Phd degree*
  - Major Area: Algebraic Statistics
  - Tutor: Prof. Aida Maraj
- **Beihang University** 2023 - 2025  
Beijing, China  
*Master degree*
  - Major Area: Statistics
  - Tutor: Prof. Xiaoxian Tang
- **Beihang University** 2019 - 2023  
Beijing, China  
*Bachelor degree*
  - Major Area: Mathematics and Applied Mathematics

## **RESEARCH AND TEACHING EXPERIENCE**

- **An algorithm for efficiently determining the equivalence of the reaction networks** July 2024 - August 2025  
*School of Mathematical Sciences, Beihang University*
- **Multistability/Multistationarity of small zero-one reaction networks** Mar 2022 - June 2024  
*School of Mathematical Sciences, Beihang University*
- **TA of data mining and analysis** Sep 2024 - Jan 2025  
*School of Mathematical Sciences, Beihang University*
- **Computational algebraic geometry discussion class** Sep 2024 - Now  
*School of Mathematical Sciences, Beihang University*

## **PATENTS AND PUBLICATIONS**

1. Yue Jiao, Xiaoxian Tang, Xiaowei Zeng. **Multistability of Small Zero-One Reaction Networks**. *arXiv preprint arXiv:2406.11586*, 2024
2. Yue Jiao, Xiaoxian Tang. **An Efficient Algorithm for Determining the Equivalence of Zero-one Reaction Networks**. *arXiv preprint arXiv:2503.00008*, 2025

## **CONFERENCES EXPERIENCE**

- **Annual Conference of the Priority Program Combinatorial Synergies** Sep 2025  
*Hannover*
- **Summer school Nonlinear Optimization and Combinatorics** Aug 2025  
*TU Braunschweig*
- **Summer School: New Perspectives on Discriminants and Their Applications** Jun 2025  
*MPI-MIS*
- **Winter school for Symbolic Computation** Jan 2025  
*Shenzhen University*
- **Forum on Intelligent Computer Mathematics 2024** Oct 2024  
*Beihang University*  
Talk Title: Multistability of Small Zero-One Reaction Networks
- **Summer school for Machine Learning** July 2024  
*The Hong Kong Polytechnic University*
- **Twelfth National Conference on Probability Statistics** Apr 2023  
*Shandong University*

## **HONORS AND AWARDS**

- **National Scholarship** Nov 2024  
*Beihang University*
- **Scholarships for new postgraduate students** Sep 2023  
*Beihang University*
- **Outstanding undergraduate thesis** Jun 2023  
*School of Mathematical Sciences, Beihang University*

## LEADERSHIP EXPERIENCE

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- **Admissions Coordinator**

*School of Mathematical Sciences, Beihang University*

*Jul 2024*

- **Freshman Mentor**

*College of Zhi Zhen, Beihang University*

*Sep 2020 - Jun 2021*

- **Project Leader**

*Innovation and Entrepreneurship Training Program for University Students*

*May 2020 - May 2021*

## VOLUNTEER EXPERIENCE

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- **Member**

*Answer Team for Python Programming Course*

*Sep 2020 - Sep 2021*

## SKILLS

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- **Programming Languages:** Python, C

- **Mathematical Tools:** Maple, Mathematica, Matlab

- **Language:** Mandarin, English (IELTS 7)