

Yue Jiao

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EDUCATION

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

- **Admissions Coordinator** Jul 2024
School of Mathematical Sciences, Beihang University
- **Freshman Mentor** Sep 2020 - Jun 2021
College of Zhi Zhen, Beihang University
- **Project Leader** May 2020 - May 2021
Innovation and Entrepreneurship Training Program for University Students

VOLUNTEER EXPERIENCE

- **Member** Sep 2020 - Sep 2021
Answer Team for Python Programming Course

SKILLS

- **Programming Languages:** Python, C
- **Mathematical Tools:** Maple, Mathematica, Matlab
- **Language:** Mandarin, English (IELTS 7)