Zengrui Han | Curriculum Vitae

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Education

Rutgers, the State University of New Jersey   **New Brunswick, NJ**
Ph.D. Student in Mathematics,   *September 2020–Present*

University of Science and Technology of China (USTC)   **Hefei, China**
Bachelor of Sciences in Mathematics,   *September 2016–July 2020*

Research Interests

Algebraic Geometry, especially Mirror Symmetry and related areas.

Publications

[1] Lev Borisov, Zengrui Han and Chengxi Wang. On duality of certain GKZ hypergeometric systems. *Asian Journal of Mathematics*, 25(1):65–88, 2021.

[2] Lev Borisov and Zengrui Han. On hypergeometric duality conjecture. *arXiv:2301.01374*, 2023.

[3] Zengrui Han. Analytic continuation of better-behaved GKZ systems and Fourier-Mukai transforms. *arXiv:2305:12241*, 2023.

Talks

- Rutgers Algebra Seminar, Febrary 2023.
- Algebraic Geometry Northeastern Series (AGNES) at University of Pennsylvania (5-minute talk), October 2023.

Teaching

Rutgers, the State University of New Jersey

- Math 552: Abstract Algebra II, TA, Spring 2024
- Math 551: Abstract Algebra I, TA, Fall 2023
- Math 477: Mathematical Theory of Probability, TA, Fall 2023
- Math 244: Differential Equations for Engineering and Physics, TA, Spring 2023
- Math 354: Linear Optimization, TA, Fall 2022
- Math 501: Theory of Functions of a Real Variable I, Grader, Fall 2022
- Math 251: Multivariable Calculus, Grader, Summer 2022
- Math 251: Multivariable Calculus, TA, Spring 2022
- Math 251H: Multivariable Calculus, Teaching Assistant, Fall 2021

○ Math 503: Theory of Functions of a Complex Variable I, Grader, Fall 2021

University of Science and Technology of China

○ Foundation of Algebra, TA, Fall 2019
○ Modern Algebra, TA, Spring 2019
○ Foundation of Algebra, TA, Fall 2018

Honors and Awards

○ Huang Yu Memorial Scholarship, USTC, 2019
○ Outstanding Student Scholarship, Silver Award, USTC, 2017 & 2018
○ Chinese Mathematical Olympaid (CMO), Bronze Medal, 2015