

# Zeyu Zheng

[My Homepage](#)

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## EDUCATION

**Rutgers University, B.S. expected in Aug 2023**

New Brunswick, New Jersey, USA

*Pure Math major, with a minor in Computer Science*

*May 2022 - Present*

**Fudan University, B.S. expected in Jul 2023**

Shanghai, Mainland China

*Computational Math, Buqing Su Top-notch Talent Program in Mathematics*

*Sep 2019 - Present*

**Budapest Semesters in Mathematics**

Budapest, Hungary, EU

*with Highest Honors (for top students, based on professor recommendations)*

*Jan 2022 - Aug 2022*

### Coursework:

Combinatorics(A+), Advanced Combinatorics(A), Combinatorial Optimization(A-), Graph Theory(A), Number Theory(A+), Calculus(A), Complex Analysis(A-), Real Analysis(A-), Fourier Analysis(A+), Linear Algebra (A), Abstract Algebra (B+), Galois Theory (A+), Analytic Geometry (A), Discrete and Convex Geometry (A+), Topology (A), Algebraic Topology (B+), Mathematical Modeling (A), Mathematical Modeling and Practice (A), Theory of Computing (A+), Conjecture and Proof (A), Research Opportunities(A+), Research Opportunities II(A)

## RESEARCH WORKS

1. Chaoliang Tang, Hehui Wu, Shengtong Zhang, and Zeyu Zheng, “On the Turán number of the linear 3-graph  $C_{13}$ ”, *Electronic Journal of Combinatorics* Volume 29, Issue 3 (2022), P3.46. [arXiv Journal version](#)
2. Logan Post and Zeyu Zheng, “Common kings of a chain of cycles in a strong tournament”, *under review*. [arXiv](#)
3. Tibor Jordán, Henry Simmons, Kaylee Weatherspoon and Zeyu Zheng, “Regular graphs with extremal rigidity properties”, *submitted*. [PDF](#)
4. Ervin Győri, Xianzhi Wang and Zeyu Zheng, “Extremal planar graphs with no cycles of particular lengths”, *under review*. [arXiv](#)
5. Yaobin Chen, Hehui Wu and Zeyu Zheng, Progress on the small quasi-kernel conjecture, *in preparation*.
6. Bhargav Narayanan and Zeyu Zheng, Maximum number of independent sets in 3-graphs, *in preparation*.

## RESEARCH EXPERIENCE

- Fudan SCMS Combinatorics Research Group, Dec 2020 - present
- Budapest Semesters in Mathematics Spring REU, Jan 2022 - May 2022
- Budapest Semesters in Mathematics Summer REU, Jun 2022 - Aug 2022
- Rutgers Discrete Math Research Group, Sep 2022 - present

## TEACHING EXPERIENCE

- Fall 2021: TA for Linear Algebra at FDU

## HONORS AND AWARDS

- Hungarian BME Mathematical Contest for university students, second place 2022
- Scholarship for Outstanding Students, Fudan University 2020-2021 & 2019-2020
- East China Cup Mathematical Modeling Contest, outstanding winner 2021
- The Chinese Mathematics Competition for college students, first prize 2020
- National High School Mathematical Contest, first prize 2018

## TALKS

1. 11th Cross-strait Conference on Graph Theory and Combinatorics Aug 2021
2. Graduate Student Seminar, Fudan University Sep 2022
3. (poster) Undergraduate Mathematics Symposium, University of Illinois at Chicago Nov 2022