

EDUCATION**Rutgers University***B.S. in Mathematics, with a minor in Computer Science***Budapest Semesters in Mathematics***with Highest Honors***Fudan University***B.S. in Mathematics, Bqing Su Top-notch Talent Program in Mathematics***Alfréd Rényi Institute of Mathematics***Semester on Large Networks and their Limits***University of Illinois at Urbana-Champaign***Summer School on Flag Algebras, online*

New Brunswick, New Jersey, USA

May 2022 - present

Budapest, Hungary, EU

Jan 2022 - present

Shanghai, Mainland China

Sep 2019 - present

Budapest, Hungary, EU

May 2022 - Jun 2022

Urbana, Illinois, USA

*Jun 2021 - Jul 2021***Core courses:**

Combinatorial Optimization (A-), Graph Theory (A), Advanced Combinatorics (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+), Research Opportunities (A+)

RESEARCH PAPERS

1. Chaoliang Tang, Hehui Wu, Shengtong Zhang, and Zeyu Zheng, “Note on the Turán number of the linear 3-graph C_{13} ”,
submitted, [arXiv:2109.10520v3](https://arxiv.org/abs/2109.10520v3), 5 pages (2021).

RESEARCH EXPERIENCE**Turán Number of Linear 3-Graphs**

Dec 2020 - Oct 2021

Advisor: HEHUI WU*Shanghai Center for Mathematical Sciences, Fudan University*

• We introduced a new approach to this kind of problems. By this new method, we proved and strengthened a conjecture of András Gyárfás about the Turán number of a linear 3-graph. ([arXiv:2109.10520v3](https://arxiv.org/abs/2109.10520v3))

Shannon Capacity of Graphs

Oct 2021 - present

Advisor: HEHUI WU*Shanghai Center for Mathematical Sciences, Fudan University*

• We are currently working on the Shannon Capacity of odd cycles. Our approach is to find a bound of the independence number of the strong product of k $(2n + 1)$ -cycles.

Planar Turán Number

Jan 2022 - present

Advisor: ERVIN GYÖRI*Alfréd Rényi Institute of Mathematics & Budapest Semesters in Mathematics*

• We have found a new approach to find the planar Turán number of C_5 , i.e. to partition the graph into triangular blocks and do local calculations. We’ve also found a better extremal construction.
 • We are currently working on the maximum number of edges in a C_6/C_8 -free planar bipartite/triangle-free planar graph with some restrictions of small degree vertices.

Rigidity Properties of Graphs

Jan 2022 - present

Advisor: TIBOR JORDÁN*Eötvös Loránd University & Budapest Semesters in Mathematics*

• We have already characterized some frameworks with different redundant rigidity properties using the properties of their underlying graphs. We are trying to establish more such connections.

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, FDU 2020-2021 & 2019-2020
- Eastern China Cup Mathematical Contest in Modeling, 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