

EDUCATION

Budapest Semesters in Mathematics (BSM)

Budapest, Hungary, EU

Jan 2022 - Aug 2022

BS. in Mathematics

Fudan University (FDU), Shanghai, China

Buqing Su Top-notch Talent Program in Mathematics

Sep 2019 - present

Semester on Large Networks and their Limits

Erdős Center, Rényi Institute, Budapest, Hungary, EU

May 2022 - Jun 2022

Summer School on Flag Algebras (online)

University of Illinois at Urbana-Champaign (UIUC), Urbana, IL, USA

Jun 2021 - Jul 2021

RESEARCH INTERESTS

Combinatorics/ (Hyper)Graph Theory/ Combinatorial Optimization

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, 5 pages (2021).

RESEARCH EXPERIENCE

Turán Number of Linear 3-Graphs

Shanghai Center for Mathematical Sciences, Fudan University

2020 Dec - 2021 Oct

Advisor: HEHUI WU

- 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)

Shannon Capacity of Graphs

Shanghai Center for Mathematical Sciences, Fudan University

2021 Oct - present

Advisor: HEHUI WU

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

Rigidity and Tensegrity Properties of Graphs

Budapest Semesters in Mathematics

2022 Jan - present

Advisor: TIBOR JORDÁN

- We are currently exploring several conjectures in this field, trying to establish some connections between graph rigidity and tensegrity.

Planar Turán Number

Budapest Semesters in Mathematics

2022 Jan - present

Advisor: ERVIN GYÖRI

- We have found a new approach to prove the Planar Turán Number of C_5 , i.e. to partition the graph into triangular blocks and calculate the “contribution” of each block. We are currently looking for a better construction of the extremal graph.

TEACHING EXPERIENCE

- Fall 2021: TA for Linear Algebra at FDU

HONORS AND AWARDS

- Scholarship for Outstanding Students, FDU 2020-2021 & 2019-2020
- Eastern China Cup Mathematical Contest in Modeling, outstanding winner 2021
- The Chinese Mathematics Competition (CMC), first prize 2020
- National High School Mathematical Contest, first prize 2018

TALKS

1. 11th Cross-strait Conference on Graph Theory and Combinatorics Aug 2021