ANQI LI

aqli@stanford.edu

https://aqlithium.github.io/anqili/

EDUCATION

Stanford University   Palo Alto, California
Ph.D. in Mathematics   *May 2029 (expected)*
University of Cambridge   Cambridge, UK
MASt in Mathematics   *June 2024 (expected)*
Massachusetts Institute of Technology   Cambridge, Massachusetts
B.Sc. in Mathematics   GPA: 5.0/5.0   *May 2023*
Raffles Institution   Singapore
Top 70 in class of 1200   Singapore GCE 'A' Levels: 7 Distinctions   *December 2018*

PAPERS

Authors listed in alphabetical order.

8. Samuel B. Hopkins, **Anqi Li**. Adversarially-robust Inference on Trees via Belief Propagation. *Submitted.*

7. Henry Cohn, **Anqi Li**. Improved Kissing Numbers in Seventeen through Twenty-two Dimensions. *In preparation.*

6. Dingding Dong, **Anqi Li**, Yufei Zhao. Common Linear Systems. *In preparation.*

5. **Anqi Li**, Dor Minzer. Friedgut-Kalai-Noar Theorem in the Grassmann setting. *In preparation.*

4. **Anqi Li**. Dynamics of Pop-Tsack Torsing. *Submitted.* Preprint available at arXiv:2209.11548.

3. **Anqi Li**, Lisa Sauermann. Sárközy's Theorem in Various Finite Field Settings. Accepted by SIAM Journal on Discrete Mathematics (SIDMA). Preprint available at arXiv:2212.12754.

2. Dain Kim, **Anqi Li**, Jonathan Tidor. Cubic Goldreich-Levin. Accepted by SODA 2023. Preprint available at arXiv:2207.13281.

1. **Anqi Li**. Progress on Local Properties Problems of Difference Sets. Accepted by European Journal of Combinatorics. Preprint available at arXiv:2201.00547.

SELECTED HONORS AND FUNDING

– Stanford EDGE Doctoral Fellowship Program   Autumn 2024 -
– Trinity Studentship in Mathematics (Trinity College, Cambridge)   Fall 2023 - Spring 2024
– MIT Jon A. Bucsela Prize in Mathematics   Spring 2023
– Alice T. Schafer Mathematics Prize: Runner Up   Fall 2022
– Mariana Polonsky Slocum (1955) Memorial Fund   Spring 2022
– MIT Hartley Rogers Jr. Prize   Summer 2021
– Fund for the Future of Science (MIT School of Science)   Summer 2020

INVITED TALKS AND SUMMER SCHOOLS

Invited Talks
- Robust Belief Propagation, Trinity College (Cambridge) BA Lunch Talks   Michaelmas 2023
- Sárközy's Theorem in Various Settings, Stanford Combinatorics Seminar   March 2023
- Cubic Goldreich-Levin, ACM-SIAM Symposium on Discrete Algorithms (SODA) January 2023
- Thresholds for Perturbed Schur Sets, Joint Mathematics Meetings (JMM): AMS Contributed Paper Session.   January 2023
- Local Properties of Difference Sets, New York Number Theory Seminar: Combinatorial and Additive Number Theory (CANT).   June 2021

Summer Schools
- High-dimensional phenomena in discrete analysis (American Inst. of Mathematics)   May 2024
- Convex and Discrete Geometry Summer School (Erdős Center)   Summer 2023
- Prague Summer School in Discrete Mathematics (PSSDM)   Summer 2022
- Cornell Probability Summer School (CPSS)   Summer 2022

SERVICE

MIT Mathematics Department
- 18.218 (Graduate): Ramsey theory. *Grader*   Spring 2023
- 18.226 (Graduate): Probabilistic Methods in Combinatorics. *Grader*   Fall 2022
- 18.408 (Graduate): Probabilistically Checkable Proofs. *Grade*r   Fall 2022
- *Tutor* at the MIT Math Learning Center   Spring 2022
- 18.225 (Graduate): Graph Theory and Additive Combinatorics. *Grader*   Fall 2021
- 18.702: Algebra II. *Undergraduate Assistant*   Spring 2021

MIT Computer Science Department
- 18.404: Introduction to Theory of Computation. *Grader*   Fall 2021

Raffles Girls' School (Secondary)
- *Course developer.* Taught a seminar on mathematical modeling (topics covered include: linear programming, graph algorithms, statistical inference) to prepare students for the International Mathematics Modeling Challenge (IMMC)

ACTIVITIES

- The Archimedeans (Mathematical Society of the University of Cambridge)   2023 - 2024
- MIT Combinatorics Reading Group   Fall 2020 - May 2023
- MIT Asian Dance Team (ADT)   Spring 2020
- The Harvard-MIT Mathematics Tournament (HMMT) - Problem Editor   Fall 2019
- MIT Borderline Augmented Reality Mural Club   Fall 2019
- MIT Chroma Magazine - Spread Designer   Fall 2019