

# ANQI LI

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

## EDUCATION

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

## PAPERS

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Authors listed in alphabetical order.

- Samuel B. Hopkins, **Anqi Li**. Adversarially-robust Inference on Trees via Belief Propagation. *Submitted*.
- Henry Cohn, **Anqi Li**. Improved Kissing Numbers in Seventeen through Twenty-two Dimensions. *In preparation*.
- Dingding Dong, **Anqi Li**, Yufei Zhao. Common Linear Systems. *In preparation*.
- Anqi Li**, Dor Minzer. Friedgut-Kalai-Noar Theorem in the Grassmann setting. *In preparation*.
- Anqi Li**. Dynamics of Pop-Tsack Torsing. *Submitted*. Preprint available at arXiv:2209.11548.
- 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.
- Dain Kim, **Anqi Li**, Jonathan Tidor. Cubic Goldreich-Levin. Accepted by SODA 2023. Preprint available at arXiv:2207.13281.
- 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

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– 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

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### 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

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### 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. *Grader* 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

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- The Archimedean Society (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