Yufei Zhao

http://yufeizhao.com yufeiz@mit.edu MIT Department of Mathematics 77 Massachusetts Ave, Room 2-271 Cambridge, MA 02139, USA

Department of Mathematics, Massachusetts Institute of Technology Associate Professor Class of 1956 Career Development Assistant Professor Assistant Professor	Cambridge, MA 2022— 2018—2021 2017—2022
Previous and Visiting Academic Positions	
Department of Mathematics, Stanford University Visiting Assistant Professor	Stanford, CA Spring 2020
Simons Institute for the Theory of Computing, UC Berkeley Simons-Berkeley Research Fellow	Berkeley, CA Spring 2017
New College, University of Oxford Esmée Fairbairn Junior Research Fellow in Mathematics	Oxford, UK 2015—2017
Education	
Massachusetts Institute of Technology Ph.D. Mathematics. Advisor: Jacob Fox	Cambridge, MA 2011—2015
University of Cambridge M.A.St. Mathematics with Distinction	Cambridge, UK 2010—2011
Massachusetts Institute of Technology S.B. Mathematics, with minor in Economics	Cambridge, MA 2006—2010

Selected Awards and Honors

S.B. Computer Science and Engineering

Edmund F. Kelly Research Award, MIT Mathematics, 2022

NSF CAREER Award, 2021

UROP Outstanding Mentor Award for Faculty, MIT, 2020

First Year Advisor Award—Innovative Seminar, MIT, 2019

Sloan Research Fellowship, 2019

Future of Science Award, MIT, 2018

SIAM Dénes König Prize, 2018

Johnson Prize, MIT Mathematics, 2015

Microsoft Research PhD Fellowship, 2013–2015

Morgan Prize Honorable Mention, 2011

Gates Cambridge Scholarship, 2010–2011

Jon A. Bucsela Prize in Mathematics, MIT Mathematics, 2010

Putnam Math Competition: Three-time Putnam Fellow (top five rank) 2006, 2008, 2009; 7th Place 2007

International Mathematical Olympiad: Gold Medal 2005, Silver Medal 2006, Bronze Medal 2004

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Research Interests

Combinatorics

extremal, probabilistic, and additive combinatorics; graph theory; discrete geometry; applications to computer science

Grants

NSF CAREER award DMS-2044606	2021—2026
Sloan Research Fellowship	2019—2021
MIT Solomon Buchsbaum Research Fund	2018
NSF award DMS-1764176	2018—2021
NSF award DMS-1362326	2017—2018

Professional Services and Activities

Associate Editor, Advances in Mathematics, 2023—current

Editorial Advisory Board Member, Springer Graduate Texts in Mathematics, 2022—current

AMS-Simons Travel Grants Committee Member, 2021—2024

Co-organizer of MIT-Harvard-MSR Combinatorics Seminar Combinatorics Seminar, Fall 2017—current

Undergraduate first-year advisor, MIT, Fall 2017—current

Organizer of the MIT team for the Putnam Competition, Fall 2017—current

Scientific Board Member, Prague Summer School on Discrete Mathematics, 2021—current

Faculty Advisory Committee, MIT OpenCourseWare, 2022—current

Advising and Mentorship

Current PhD students:

Aaron Berger

Dingding Dong (Harvard)

Nitya Mani (co-advised with Pablo Parrilo)

Ashwin Sah

Mehtaab Sawhnev

Former PhD students:

Benjamin Gunby (Harvard PhD '21) → Rutgers postdoc

Jonathan Tidor (MIT PhD '22) → Stanford Science Fellow (postdoc)

Undergraduate research supervised:

Yang Liu (2018) → Stanford PhD student

Ryan Alweiss (2018) → Princeton PhD student

Yunkun Zhou (2018–2019) → Stanford PhD student

Mehtaab Sawhney (2018–2020) Morgan Prize winner → MIT PhD student

Ashwin Sah (2018–2020) Morgan Prize winner → MIT PhD student

David Stoner (2018–2019) Morgan Prize honorable mention → Stanford PhD student

Yuan Yao (2019–2020) → MIT PhD student

Shengtong Zhang (2019–2021) → Stanford PhD student

Hung-Hsun Yu (2019–2021) → Cambridge Part III & Princeton PhD student

Mihir Singhal (2019)

Zachary Chroman (2019) → Cambridge Part III

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Carl Schildkraut (2020–)

Milan Haiman (2020–2021)

Angi Li (2021–)

Dain Kim (2021)

Mingyang Deng (2022)

Tomasz Slusarczyk (2022)

Aleksandre Saatashvili (2022-)

Saba Lepsveridze (2022–)

Honglin Zhu (2023-)

Pitchayut (Mark) Saengrungkongka (2023–)

Sanjana Das (2023–)

Postdoctoral researchers mentored:

Zilin Jiang (2018–2020) → Assistant Professor at Arizona State University László Miklós Lovász (2018–2020) → working in industry

Research Internships

Microsoft Research New England

Cambridge, MA

Mentor: Henry Cohn

Summers 2010, 2011, 2013, 2014

Microsoft Research Theory Group

Redmond, WA

Mentor: Eyal Lubetzky

Summer 2012

Book

Graph Theory and Additive Combinatorics: Exploring Structure and Randomness Cambridge University Press, in press, pp. ~320

Papers

- 65. József Balogh, Dingding Dong, Bernard Lidický, Nitya Mani, and Yufei Zhao Nearly all *k*-SAT functions are unate. ACM Symposium on Theory of Computing (STOC 2023) arXiv: 2209.04894
- 64. Assaf Naor, Ashwin Sah, Mehtaab Sawhney, and Yufei Zhao Cayley graphs that have a quantum ergodic eigenbasis, Israel J. Math. (2022). arXiv:2207.05527
- 63. Dingding Dong, Nitya Mani, and Yufei Zhao On the number of error correcting codes. arXiv:2205.12363
- 62. Michael Magee, Joe Thomas, and Yufei Zhao Quantum Unique Ergodicity for Cayley graphs of quasirandom groups. arXiv: 2204.10642
- 61. Yufei Zhao, Exploring a planet, revisited, Amer. Math. Monthly 129 (2022), 678-680. arXiv:2110.04376
- 60. Milan Haiman, Carl Schildkraut, Shengtong Zhang, and Yufei Zhao, Graphs with high second eigenvalue multiplicity, Bull. Lond. Math. Soc. 54 (2022), 1630–1652. arXiv:2109.13131
- 59. Dingding Dong, Nitya Mani, and Yufei Zhao Enumerating k-SAT functions, ACM-SIAM Symposium on Discrete Algorithms (SODA 2022). arXiv:2107.09233

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- 58. David Conlon, Jacob Fox, Benny Sudakov, and Yufei Zhao, Which graphs can be counted in *C*₄-free graphs? *Pure Appl. Math. Q.*, to appear. arXiv:2106.03261
- 57. Jacob Fox and Yufei Zhao, Removal lemmas and approximate homomorphisms, Combin. Probab. Comput., to appear. arXiv:2104.11626
- 56. Aaron Berger and Yufei Zhao, *K*₄-intersecting families of graphs. arXiv:2103.12671
- 55. Ashwin Sah, Mehtaab Sawhney, Yufei Zhao, The cylindrical width of transitive sets, *Israel J. Math.*, to appear. arXiv:2101.11207
- 54. Ashwin Sah, Mehtaab Sawhney, Yufei Zhao, Paths of given length in tournaments. arXiv:2012.00262
- 53. Jonathan Tidor, Hung-Hsun Hans Yu, and Yufei Zhao, Joints of varieties, *Geom. Funct. Anal.* 32 (2022) 302–339. arXiv:2008.01610
- 52. Matthew Kwan, Lisa Sauermann, and Yufei Zhao, Extension complexity of low-dimensional polytopes, *Trans. Amer. Math. Soc.* 375 (2022), 4209–4250. arXiv:2006.08836
- 51. Zilin Jiang, Jonathan Tidor, Yuan Yao, Shengtong Zhang, and Yufei Zhao, Spherical two-distance sets and eigenvalues of signed graphs, *Combinatorica*, to appear. arXiv:2006.06633
- 50. Ashwin Sah, Mehtaab Sawhney, and Yufei Zhao, Cayley graphs without a bounded eigenbasis, Int. Math. Res. Not. IMRN 2022 (2022), 6157–6185. arXiv:2005.04502
- 49. Jacob Fox, Yuval Wigderson, and Yufei Zhao, A short proof of the canonical polynomial van der Waerden theorem, *C. R. Math. Acad. Sci. Paris* 358 (2020), 957–959. arXiv:2005.04135
- 48. Jacob Fox, Huy Tuan Pham, and Yufei Zhao,
 Tower-type bounds for Roth's theorem with popular differences. *J. Eur. Math. Soc. (JEMS)*, to appear. arXiv:2004.13690
- 47. David Conlon, Jacob Fox, Benny Sudakov, and Yufei Zhao, The regularity method for graphs with few 4-cycles, *J. Lond. Math. Soc.* 104 (2021), 2376–2401. arXiv:2004.10180
- 46. Ashwin Sah, Mehtaab Sawhney, and Yufei Zhao, Patterns without a popular difference, *Discrete Anal.*, 2021:8, 30 pp. arXiv:2004.07722
- 45. Ashwin Sah, Mehtaab Sawhney, Jonathan Tidor, and Yufei Zhao, A counterexample to the Bollobás-Riordan conjectures on sparse graph limits, *Combin. Probab. Comput.* 30 (2021), 796–799. arXiv:2003.05272
- 44. Hung-Hsun Hans Yu and Yufei Zhao, Joints tightened, Amer. J. Math., to appear. arXiv:1911.08605
- 43. Jonathan Tidor and Yufei Zhao, Testing linear-invariant properties,

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IEEE Symposium on Foundations of Computer Science (FOCS 2020), and *SIAM J. Comput.* 51 (2022), 1230–1279. arXiv:1911.06793

- 42. Jacob Fox, Jonathan Tidor, and Yufei Zhao, Induced arithmetic removal: complexity 1 patterns over finite fields, Israel J. Math. 248 (2022), 1–38. arXiv:1911.03427
- 41. Jacob Fox, Huy Tuan Pham, and Yufei Zhao, Common and Sidorenko linear equations, Q. J. Math. 72 (2021), 1223–1234. arXiv:1910.06436
- 40. Yang Liu and Yufei Zhao,
 On the upper tail problem for random hypergraphs,
 Random Structures Algorithms 58 (2021), 179–220. arXiv:1910.02916
- 39. Zilin Jiang, Jonathan Tidor, Yuan Yao, Shengtong Zhang, and Yufei Zhao, Equiangular lines with a fixed angle,

 Ann. of Math. 194 (2021), 729–743. arXiv:1907.12466
- Yufei Zhao and Yunkun Zhou,
 Impartial digraphs,
 Combinatorica 40 (2020), 875–896. arXiv:1906.10482
- 37. Ashwin Sah, Mehtaab Sawhney, David Stoner, and Yufei Zhao, Exponential improvements for superball packing upper bounds, *Adv. Math.* 365 (2020), 107056. arXiv:1904.11462
- 36. Jacob Fox, Ashwin Sah, Mehtaab Sawhney, David Stoner, and Yufei Zhao, Triforce and corners, *Math. Proc. Cambridge Philos. Soc.* 169 (2020), 209–223. arXiv:1903.04863
- 35. Ashwin Sah, Mehtaab Sawhney, David Stoner, and Yufei Zhao, A reverse Sidorenko inequality, *Invent. Math.* 221 (2020), 665–711. arXiv:1809.09462
- 34. David Conlon, Jonathan Tidor, and Yufei Zhao, Hypergraph expanders of all uniformities from Cayley graphs, *Proc. Lond. Math. Soc.* 121 (2020), 1311–1336. arXiv:1809.06342
- 33. Asaf Ferber, Vishesh Jain, and Yufei Zhao,
 On the number of Hadamard matrices via anti-concentration,
 Combin. Probab. Comput. 31 (2022), 455–477. arXiv:1808.07222
- 32. Ashwin Sah, Mehtaab Sawhney, David Stoner, and Yufei Zhao, The number of independent sets in an irregular graph, *J. Combin. Theory Ser. B* 138 (2019), 172–195. arXiv:1805.04021.
- 31. Jacob Fox, László Miklós Lovász, and Yufei Zhao, A fast new algorithm for weak graph regularity, Combin. Probab. Comput. 28 (2019), 777–790. arXiv:1801.05037
- 30. Noga Alon, Jacob Fox, and Yufei Zhao, Efficient arithmetic regularity and removal lemmas for induced bipartite patterns, *Discrete Anal.* 2019:3, 14 pp. arXiv:1801.04675
- 29. Yufei Zhao, Group representations that resist worst-case sampling. arXiv:1705.04675
- 28. Yufei Zhao, Extremal regular graphs: independent sets and graph homomorphisms, *Amer. Math. Monthly* 124 (2017), 827–843. arXiv:1610.09210

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27. Bhaswar B. Bhattacharya, Shirshendu Ganguly, Xuancheng Shao, and Yufei Zhao, Upper tails for arithmetic progressions in a random set, *Int. Math. Res. Not. IMRN* 2020, 167–213. arXiv:1605.02994

26. Jacob Fox, László Miklós Lovász, and Yufei Zhao, On regularity lemmas and their algorithmic applications, Combin. Probab. Comput. 26 (2017), 481–505. arXiv:1604.00733

25. David Conlon and Yufei Zhao, Quasirandom Cayley graphs,

Discrete Anal. 2017:6, 14 pp. arXiv:1603.03025

24. Bhaswar B. Bhattacharya, Shirshendu Ganguly, Eyal Lubetzky, and Yufei Zhao, Upper tails and independence polynomials in random graphs, *Adv. Math.* 319 (2017), 313–347. arXiv:1507.04074

23. László Miklós Lovász and Yufei Zhao,

On derivatives of graphon parameters,

J. Combin. Theory Ser. A 145 (2017), 364–368. arXiv:1505.07448

22. Yufei Zhao, On the lower tail variational problem for random graphs, *Combin. Probab. Comput.* 26 (2017), 301–320. arXiv:1502.00867

21. Christian Borgs, Jennifer T. Chayes, Henry Cohn, and Yufei Zhao, An *L*^p theory of sparse graph convergence II: LD convergence, quotients, and right convergence, *Ann. Probab.* 46 (2018), 337–396. arXiv:1408.0744

20. David Conlon, Jacob Fox, and Yufei Zhao,

The Green-Tao theorem: an exposition,

EMS Surv. Math. Sci. 1 (2014), 249-282. arXiv:1403.2957

19. Eyal Lubetzky and Yufei Zhao,

On the variational problem for upper tails in sparse random graphs, *Random Structures Algorithms* 50 (2017), 420–436. arXiv:1402.6011

18. Christian Borgs, Jennifer T. Chayes, Henry Cohn, and Yufei Zhao,

An L^p theory of sparse graph convergence I: limits, sparse random graph models, and power law distributions,

Trans. Amer. Math. Soc. 372 (2019), 3019-3062. arXiv:1401.2906

17. Yufei Zhao, An arithmetic transference proof of a relative Szemerédi theorem, *Math. Proc. Cambridge Philos. Soc.* 156 (2014), 255–261. arXiv:1307.4959

16. Jacob Fox and Yufei Zhao,

A short proof of the multidimensional Szemerédi theorem in the primes, *Amer. J. Math.* 137 (2015), 1139–1145. arXiv:1307.4679

15. David Conlon, Jacob Fox, and Yufei Zhao,

A relative Szemerédi theorem,

Geom. Funct. Anal. 25 (2015), 733-762. arXiv:1305.5440

14. Yufei Zhao, Hypergraph limits: a regularity approach, *Random Structures Algorithms* 47 (2015), 205–226. arXiv:1302.1634

13. Henry Cohn and Yufei Zhao,

Sphere packing bounds via spherical codes, *Duke Math. J.* 163 (2014), 1965–2002. arXiv:1212.5966

12. Henry Cohn and Yufei Zhao,

Universally optimal error-correcting codes,

IEEE Trans. Inform. Theory 60 (2014), 7442-7450. arXiv:1212.1913

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11. Eyal Lubetzky and Yufei Zhao,

On replica symmetry of large deviations in random graphs, *Random Structures Algorithms* 47 (2015) 109–146. arXiv:1210.7013

10. Jacob Fox, Po-Shen Loh, and Yufei Zhao,

The critical window for the classical Ramsey-Turán problem, *Combinatorica* 35 (2015) 435–476. arXiv:1208.3276

9. David Conlon, Jacob Fox, and Yufei Zhao, Extremal results in sparse pseudorandom graphs, *Adv. Math.* 256 (2014), 206–290. arXiv:1204.6645

- 8. Yufei Zhao, The bipartite swapping trick on graph homomorphisms, *SIAM J. Discrete Math.* 25 (2011), 660–680. arXiv:1104.3704
- 7. Yufei Zhao, Sets characterized by the number of missing sums and differences, *J. Number Theory* 11 (2011), 2107–2134. arXiv:0911.2292
- 6. David Galvin and Yufei Zhao,

The number of independent sets in graphs with small maximum degree, *Graphs Combin.* 27 (2011), 177–186. arXiv:1007.4803

- 5. Yufei Zhao, Counting MSTD sets in finite abelian groups, *J. Number Theory* 130 (2010), 2308–2322. arXiv:0911.2288
- 4. Yufei Zhao, Constructing numerical semigroups of a given genus, *Semigroup Forum* 80 (2010), 242–254. arXiv:0910.2075
- 3. Yufei Zhao, Constructing MSTD sets using bidirectonal ballot sequences, *J. Number Theory* 130 (2010), 1212–1220. arXiv:0908.4442
- 2. Yufei Zhao, The number of independent sets in a regular graph, *Combin. Probab. Comput.* 19 (2010), 315–320. arXiv:0909.3354
- 1. Yufei Zhao, The coefficients of a truncated Fibonacci power series, *Fibonacci Quart.* 46/47 (2009), 53–55.

Invited Talks

Selected talk videos and slides can be found on my homepage: https://yufeizhao.com

2023 GallianFest: Number Theory and Combinatorics in Duluth

Duluth, MN

Sphere packings, coverings, and spherical codes (SPCSC2023)

Sofia, Bulgaria Murfreesboro, TN

Cumberland Conference: Plenary Speaker

Princeton, NJ

Oberwolfach workshop: Combinatorics

Oberwolfach, Germany

2022 TILOS and OPTML++ Seminar

IAS Special Year Seminar

Online

U. Washington-PIMS Mathematics Colloquium

Seattle, WA

TU Graz Combinatorics Seminar

Online

Waterloo Algebraic Graph Theory seminar

Online

Conference on Random Structures & Algorithms (RS&A): **Plenary Speaker** Gniezno, Poland

International Congress of Chinese Mathematicians (ICCM): Plenary Speaker Nanjing, China/Online

Shandong University Mathematics seminar

Online

Workshop on Critical and Collective Effects in Graphs and Networks (CCEGN-V)

Falmouth, MA

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	Oberwolfach workshop: Combinatorics, Probability and Computing	Oberwolfach, Germany
	U. of Chicago Mathematics Colloquium	Chicago, IL
	U. of Chicago Combinatorics and Theoretical Computer Science Seminar	Chicago, IL
	Johns Hopkins Applied Mathematics and Statistics Colloquium	Online
	Vrije Universiteit in Amsterdam General Mathematics Colloquium	Online
2021	AIM workshop on Spectral graph and hypergraph theory: connections and a	applications Online
	Ohio State University Mathematics Colloquium	Columbus, OH
	Ohio State University Combinatorics & Probability Seminar	Columbus, OH
	National University of Singapore (NUS) Young Mathematician Lecture Series	s Online
	Canadian Discrete and Algorithmic Math Conference (CanaDAM): Plenary	Lecture Online
	Workshop on Extremal and Algorithmic Aspects of Partition Functions	Online
	Copenhagen–Jerusalem Combinatorics Seminar	Online
	Simons Collaboration: Algorithms & Geometry Monthly Meeting	Online
	Caltech/UCLA Joint Analysis Seminar	Online
	Joint Math Meetings MAA Invited Paper Session "Coding Theory and Geome	etry" Online
2020	Warwick Centre for Discrete Mathematics and its Applications seminar	Online
	Virtual Harmonic Analysis Seminar	Online
	University of Wisconsin Number Theory / Representation Theory Seminar	Online
	Princeton Discrete Mathematics Seminar	Online
	Big Seminar by Laboratory of Combinatorial and Geometric Structures	Online
	SCMS Combinatorics Seminar	Online
	Cumberland Conference Plenary speaker (Canceled due to COVID-19)	Williamsburg, VA
	Simons Collaboration: Algorithms & Geometry Annual Conference Plenary to COVID-19)	Lecture (Canceled due New York, NY
	Webinar in Additive Combinatorics	Online
	Stanford Online Combinatorics Seminar	Online
	Stanford Math Department Colloquium	Stanford, CA
	Oberwolfach workshop: Combinatorics	Oberwolfach, Germany
2019	Shanghai Center for Mathematical Sciences (Fudan) Discrete Math. Semina	r Shanghai, China
	Conference on Graph Theory and its Applications: A Tribute to Prof. Fan Ch	ung Sanya, China
	Atlanta Lectures Series in Combinatorics and Graph Theory at Emory	Atlanta, GA
	Princeton Discrete Mathematics Seminar	Princeton, NJ
	Banff workshop: Probabilistic and Extremal Combinatorics	Banff, AB
	ETH Zurich Theory of Combinatorial Algorithms Mittagsseminar	Zürich, Switzerland
	Oberwolfach workshop: Combinatorics, Probability and Computing	Oberwolfach, Germany
	Rutgers Discrete Math Seminar	Piscataway, NJ
	Yale Combinatorics Seminar	New Haven, CT

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Clay Math Institute workshop: Recent Advances in Extremal Combinatorics: Size Paulo, Brazil		Stanford Combinatorics Seminar	Stanford, CA
Simons Institute workshop: Pseudorandomness Reunion Berkeley, CA MIT Workshop on Local Algorithms (WOLA 2018) Cambridge, MA MIT workshop on Sublinear Algorithms: bootcamp tutorial Cambridge, MA SIAM Conference on Discrete Mathematics: minisymposium Denver, CO SIAM Conference on Discrete Mathematics: Dénes König Prize Lecture Denver, CO Georgia Tech workshop: Algorithms and Randomness Atlanta, GA Northeastern U. Network Science Institute Talk Boston, MA AMS Sectional Meeting at Northeastern University Boston, MA Rutgers Discrete Math Seminar Piscataway, NJ Tsinghua YMSC minicourse Beijing, China CMU ACO Seminar Pittsburgh, PA Harvard CMSA workshop: Probabilistic and Extremal Combinatorics Cambridge, MA Birmingham workshop: Additive Combinatorics Gambridge, MA Birmingham workshop: Interactions with Combinatorics Birmingham, UK BGSMath workshop: Random Discrete Structures and Beyond Barcelona, Spain SFSU: ACG Seminar San Francisco, CA Stanford Math Department Colloquium Stanford, CA Simons Institute workshop: Structure and Randomness Berkeley, CA Stanford Combinatorics Seminar Cambridge, MA <td>2018</td> <td>Clay Math Institute workshop: Recent Advances in Extremal Combinatori</td> <td>cs Oxford, UK</td>	2018	Clay Math Institute workshop: Recent Advances in Extremal Combinatori	cs Oxford, UK
MIT Workshop on Local Algorithms (WOLA 2018) MIT workshop on Sublinear Algorithms: bootcamp tutorial SIAM Conference on Discrete Mathematics: minisymposium Denver, CO SIAM Conference on Discrete Mathematics: Dénes König Prize Lecture Georgia Tech workshop: Algorithms and Randomness Atlanta, GA Northeastern U. Network Science Institute Talk AMS Sectional Meeting at Northeastern University Boston, MA Rutgers Discrete Math Seminar Tisinghua YMSC minicourse CMU ACO Seminar Harvard CMSA workshop: Probabilistic and Extremal Combinatorics CMU ACO Seminar Harvard CMSA workshop: Additive Combinatorics Birmingham workshop: Interactions with Combinatorics Birmingham workshop: Additive Combinatorics Birmingham workshop: Random Discrete Structures and Beyond BSFSU: ACG Seminar Stanford Math Department Colloquium Stanford CA MIT Combinatorics Seminar Cambridge, MA UC Berkeley Combinatorics Seminar Stanford CA Simons Institute workshop: Pseudorandomness Boot Camp Stanford Combinatorics Seminar Cambridge, MA UC Berkeley Combinatorics Seminar Berkeley, CA Simons Institute workshop: Large-scale structures in random graphs Birmingham Combinatorics Seminar Warwick DIMAP Seminar Coventry, UK LSF/Queen Mary Colloquia in Combinatorics Coberwolfach workshop: Combinatorics Simons Symposium: Analysis of Boolean Functions Kriu, Germany British Mathematical Colloquium: Combinatorics Workshop Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		ICM satellite workshop — Combinatorics: Extremal, Probabilistic and Ad	ditive São Paulo, Brazil
MIT workshop on Sublinear Algorithms: bootcamp tutorial SIAM Conference on Discrete Mathematics: minisymposium Denver, CO SIAM Conference on Discrete Mathematics: Dénes König Prize Lecture Georgia Tech workshop: Algorithms and Randomness Atlanta, GA Northeastern U. Network Science Institute Talk AMS Sectional Meeting at Northeastern University Boston, MA Rutgers Discrete Math Seminar Piscataway, NJ Tsinghua YMSC minicourse CMU ACO Seminar CMU ACO Seminar Harvard CMSA workshop: Probabilistic and Extremal Combinatorics Cambridge, MA UCLA Combinatorics Seminar Los Angeles, CA Birmingham workshop: Interactions with Combinatorics Birmingham, UK BGSMath workshop: Random Discrete Structures and Beyond SFSU: ACG Seminar SFSU: ACG Seminar SFSU: ACG Seminar SFSU: ACG Seminar Gambridge, MA UC Berkeley Combinatorics Structure and Randomness Berkeley, CA Simons Institute workshop: Structure and Randomness Berkeley, CA Simons Institute workshop: Pseudorandomness Boot Camp Berkeley Combinatorics Seminar UC Berkeley Combinatorics Seminar UC Berkeley Combinatorics Seminar Stanford, CA Simons Institute workshop: Combinatorics Simons Institute workshop: Large-scale structures in random graphs Birmingham Combinatorics Seminar Warwick DIMAP Seminar LSE/Queen Mary Colloquia in Combinatorics Oberwolfach workshop: Combinatorics Seminar Simons Symposium: Analysis of Boolean Functions Krün, Germany British Mathematical Colloquium: Combinatorics Workshop Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		Simons Institute workshop: Pseudorandomness Reunion	Berkeley, CA
SIAM Conference on Discrete Mathematics: minisymposium Denver, CO SIAM Conference on Discrete Mathematics: Dénes König Prize Lecture Denver, CO Georgia Tech workshop: Algorithms and Randomness Atlanta, GA Northeastern U. Network Science Institute Talk Boston, MA AMS Sectional Meeting at Northeastern University Boston, MA Rutgers Discrete Math Seminar Piscataway, NJ Tsinghua YMSC minicourse Beijing, China CMU ACO Seminar Pittsburgh, PA Harvard CMSA workshop: Probabilistic and Extremal Combinatorics UCLA Combinatorics Seminar Los Angeles, CA Birmingham workshop: Additive Combinatorics Birmingham, UK BGSMath workshop: Additive Combinatorics Birmingham, UK BGSMath workshop: Random Discrete Structures and Beyond Barcelona, Spain SFSU: ACG Seminar San Francisco, CA Stanford Math Department Colloquium San Francisco, CA Simons Institute workshop: Structure and Randomness Berkeley, CA MIT Combinatorics Seminar Cambridge, MA UC Berkeley Combinatorics Seminar Berkeley, CA Simons Institute workshop: Pseudorandomness Boot Camp Stanford Combinatorics Seminar Berkeley, CA Simord Combinatorics Seminar Berkeley, CA Stanford Combinatorics Seminar Cambridge, MA US Berkeley Ordinatorics Seminar Berkeley, CA Stanford Combinatorics Seminar Berkeley, CA Stanford Combinatorics Seminar Cambridge, MA US Berkeley Cambridatorics Seminar Berkeley, CA Stanford Combinatorics Seminar Cambridge, CA Stanford Combinatorics Seminar Stanford, CA Oberwolfach workshop: Combinatorics Directoric Seminar Coventry, UK Burners-sur-Yvette, France Warwick DIMAP Seminar Coventry, UK LSE/Queen Mary Colloquia in Combinatorics Doberwolfach workshop: Combinatorics, Probability and Computing Simons Symposium: Analysis of Boolean Functions Krün, Germany British Mathematical Colloquium: Combinatorics Work		MIT Workshop on Local Algorithms (WOLA 2018)	Cambridge, MA
SIAM Conference on Discrete Mathematics: Dénes König Prize Lecture Georgia Tech workshop: Algorithms and Randomness Atlanta, GA Northeastern U. Network Science Institute Talk AMS Sectional Meeting at Northeastern University Boston, MA Rutgers Discrete Math Seminar Piscataway, NJ Tsinghua YMSC minicourse Beijing, China CMU ACO Seminar CMU ACO Seminar CMU ACO Seminar CMU ACO Seminar Birmingham workshop: Probabilistic and Extremal Combinatorics UCLA Combinatorics Seminar Birmingham workshop: Additive Combinatorics Birmingham workshop: Interactions with Combinatorics Birmingham workshop: Random Discrete Structures and Beyond Birshingham workshop: Structure and Randomness Birshingham workshop: Structure and Randomness Berkeley, CA Simons Institute workshop: Structure and Randomness Berkeley, CA Simons Institute workshop: Pseudorandomness Boot Camp Birshingham workshop: Pseudorandomness Boot Camp Stanford Combinatorics Seminar UC Berkeley Combinatorics Seminar Berkeley, CA Simons Institute workshop: Combinatorics Simons Institute workshop: Alarge-scale structures in random graphs London, UK Birmingham Combinatorics Seminar Birmingham, UK Birmingham Combinatorics Seminar Coberwolfach workshop: Large-scale structures in random graphs London, UK Birmingham Combinatorics Seminar Birmingham, UK Birmingham Combinatorics Seminar Coventry, UK LSE/Queen Mary Colloquia in Combinatorics London, UK Birmingham Combinatorics Probability and Computing Simons Symposium: Analysis of Boolean Functions Krün, Germany British Mathematical Colloquium: Combinatorics Workshop Bristol, UK		MIT workshop on Sublinear Algorithms: bootcamp tutorial	Cambridge, MA
Georgia Tech workshop: Algorithms and Randomness Northeastern U. Network Science Institute Talk AMS Sectional Meeting at Northeastern University Boston, MA Rutgers Discrete Math Seminar Piscataway, NJ Tsinghua YMSC minicourse CMU ACO Seminar Harvard CMSA workshop: Probabilistic and Extremal Combinatorics UCLA Combinatorics Seminar Los Angeles, CA Birmingham workshop: Additive Combinatorics Birmingham workshop: Interactions with Combinatorics Birmingham workshop: Random Discrete Structures and Beyond BSSMath workshop: Random Discrete Structures and Beyond BSFSU: ACG Seminar SFSU: ACG Seminar SFSU: ACG Seminar SFSU: ACG Seminar Cambridge, MA UC Berkeley Combinatorics Seminar Berkeley, CA Stanford Math Department Colloquium Stanford, CA MIT Combinatorics Seminar Cambridge, MA UC Berkeley Combinatorics Seminar Berkeley, CA Stanford Combinatorics Seminar Berkeley, CA Stanford Combinatorics Seminar Berkeley, CA Stanford Combinatorics Seminar Stanford, CA Birmingham Combinatorics Seminar Stanford Combinatorics Seminar Stanford, CA Oberwolfach Germany Simons Symposium: Analysis of Boolean Functions British Mathematical Colloquium: Combinatorics Workshop Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		SIAM Conference on Discrete Mathematics: minisymposium	Denver, CO
Northeastern U. Network Science Institute Talk AMS Sectional Meeting at Northeastern University Boston, MA Rutgers Discrete Math Seminar Piscataway, NJ Tsinghua YMSC minicourse CMU ACO Seminar Harvard CMSA workshop: Probabilistic and Extremal Combinatorics UCLA Combinatorics Seminar UCLA Combinatorics Seminar Birmingham workshop: Additive Combinatorics Birmingham workshop: Interactions with Combinatorics Birmingham workshop: Random Discrete Structures and Beyond BSSMath workshop: Random Discrete Structures and Beyond BSFSU: ACG Seminar SFSU: ACG Seminar SFSU: ACG Seminar SFSU: ACG Seminar Stanford Math Department Colloquium Stanford, CA Simons Institute workshop: Structure and Randomness Berkeley, CA MIT Combinatorics Seminar Cambridge, MA UC Berkeley Combinatorics Seminar Berkeley, CA Simons Institute workshop: Pseudorandomness Boot Camp Berkeley, CA Stanford Combinatorics Seminar Oberwolfach workshop: Combinatorics Turing Institute workshop: Large-scale structures in random graphs Birmingham Combinatorics Seminar Birmingham, UK Birmingham Combinatorics Seminar Coventry, UK LSE/Queen Mary Colloquia in Combinatorics Oberwolfach workshop: Combinatorics Simons Symposium: Analysis of Boolean Functions British Mathematical Colloquium: Combinatorics Workshop Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		SIAM Conference on Discrete Mathematics: Dénes König Prize Lecture	Denver, CO
AMS Sectional Meeting at Northeastern University Rutgers Discrete Math Seminar Rutgers Discrete Math Seminar Piscataway, NJ Tsinghua YMSC minicourse Beijing, China CMU ACO Seminar Pittsburgh, PA Harvard CMSA workshop: Probabilistic and Extremal Combinatorics Cambridge, MA UCLA Combinatorics Seminar Los Angeles, CA DIF Harvard CMSA workshop: Additive Combinatorics Birmingham workshop: Additive Combinatorics Birmingham, UK BGSMath workshop: Random Discrete Structures and Beyond BGSMath workshop: Random Discrete Structures and Beyond SFSU: ACG Seminar SFSU: ACG Seminar Stanford Math Department Colloquium Stanford, CA Simons Institute workshop: Structure and Randomness Berkeley, CA MIT Combinatorics Seminar Cambridge, MA UC Berkeley Combinatorics Seminar Berkeley, CA Simons Institute workshop: Pseudorandomness Boot Camp Berkeley, CA Stanford Combinatorics Seminar Stanford, CA Oberwolfach workshop: Combinatorics Oberwolfach workshop: Large-scale structures in random graphs Birmingham Combinatorics Seminar Birmingham, UK Birmingham Combinatorics Seminar Coventry, UK LSE/Queen Mary Colloquia in Combinatorics Warwick DIMAP Seminar Coventry, UK LSE/Queen Mary Colloquia in Combinatorics Simons Symposium: Analysis of Boolean Functions Sritish Mathematical Colloquium: Combinatorics Workshop Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		Georgia Tech workshop: Algorithms and Randomness	Atlanta, GA
Rutgers Discrete Math Seminar Piscataway, NJ Tsinghua YMSC minicourse Beijing, China CMU ACO Seminar Pittsburgh, PA Harvard CMSA workshop: Probabilistic and Extremal Combinatorics Cambridge, MA UCLA Combinatorics Seminar Los Angeles, CA 2017 Harvard CMSA workshop: Additive Combinatorics Birmingham workshop: Interactions with Combinatorics Birmingham, UK BGSMath workshop: Random Discrete Structures and Beyond Barcelona, Spain SFSU: ACG Seminar San Francisco, CA Simons Institute workshop: Structure and Randomness Berkeley, CA MIT Combinatorics Seminar Cambridge, MA UC Berkeley Combinatorics Seminar Cambridge, MA UC Berkeley Combinatorics Seminar Berkeley, CA Simons Institute workshop: Pseudorandomness Boot Camp Berkeley, CA Stanford Combinatorics Seminar Stanford, CA Oberwolfach workshop: Combinatorics Oberwolfach workshop: Large-scale structures in random graphs Birmingham Combinatorics Seminar Birmingham, UK Birmingham Combinatorics Seminar Birmingham, UK LSE/Queen Mary Colloquia in Combinatorics Oberwolfach workshop: Combinatorics Simons Symposium: Analysis of Boolean Functions British Mathematical Colloquium: Combinatorics Workshop Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		Northeastern U. Network Science Institute Talk	Boston, MA
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Simons Institute workshop: Structure and Randomness MIT Combinatorics Seminar Cambridge, MA UC Berkeley Combinatorics Seminar Berkeley, CA Simons Institute workshop: Pseudorandomness Boot Camp Berkeley, CA Stanford Combinatorics Seminar Stanford, CA Oberwolfach workshop: Combinatorics Oberwolfach workshop: Large-scale structures in random graphs Birmingham Combinatorics Seminar Birmingham Combinatorics Seminar Birmingham, UK IHÉS Seminar Bures-sur-Yvette, France Warwick DIMAP Seminar Coventry, UK LSE/Queen Mary Colloquia in Combinatorics Userwolfach workshop: Combinatorics, Probability and Computing Simons Symposium: Analysis of Boolean Functions Krün, Germany British Mathematical Colloquium: Combinatorics Workshop Oxford Mathematical Institute North meets South Colloquium Oxford, UK		SFSU: ACG Seminar	San Francisco, CA
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UC Berkeley Combinatorics Seminar Berkeley, CA Simons Institute workshop: Pseudorandomness Boot Camp Berkeley, CA Stanford Combinatorics Seminar Stanford, CA Oberwolfach workshop: Combinatorics Oberwolfach, Germany 2016 Turing Institute workshop: Large-scale structures in random graphs Birmingham Combinatorics Seminar Birmingham, UK IHÉS Seminar Bures-sur-Yvette, France Warwick DIMAP Seminar Coventry, UK LSE/Queen Mary Colloquia in Combinatorics Computing Oberwolfach workshop: Combinatorics, Probability and Computing Simons Symposium: Analysis of Boolean Functions British Mathematical Colloquium: Combinatorics Workshop Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		Simons Institute workshop: Structure and Randomness	Berkeley, CA
Simons Institute workshop: Pseudorandomness Boot Camp Stanford Combinatorics Seminar Stanford, CA Oberwolfach workshop: Combinatorics Oberwolfach workshop: Large-scale structures in random graphs Birmingham Combinatorics Seminar Birmingham Combinatorics Seminar Birmingham, UK IHÉS Seminar Bures-sur-Yvette, France Warwick DIMAP Seminar Coventry, UK LSE/Queen Mary Colloquia in Combinatorics Oberwolfach workshop: Combinatorics, Probability and Computing Simons Symposium: Analysis of Boolean Functions British Mathematical Colloquium: Combinatorics Workshop Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		MIT Combinatorics Seminar	Cambridge, MA
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Oberwolfach workshop: Combinatorics Oberwolfach, Germany 2016 Turing Institute workshop: Large-scale structures in random graphs Birmingham Combinatorics Seminar Birmingham, UK IHÉS Seminar Bures-sur-Yvette, France Warwick DIMAP Seminar Coventry, UK LSE/Queen Mary Colloquia in Combinatorics Oberwolfach workshop: Combinatorics, Probability and Computing Simons Symposium: Analysis of Boolean Functions Krün, Germany British Mathematical Colloquium: Combinatorics Workshop Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		Simons Institute workshop: Pseudorandomness Boot Camp	Berkeley, CA
2016 Turing Institute workshop: Large-scale structures in random graphs Birmingham Combinatorics Seminar Birmingham, UK IHÉS Seminar Bures-sur-Yvette, France Warwick DIMAP Seminar Coventry, UK LSE/Queen Mary Colloquia in Combinatorics London, UK Oberwolfach workshop: Combinatorics, Probability and Computing Simons Symposium: Analysis of Boolean Functions British Mathematical Colloquium: Combinatorics Workshop Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		Stanford Combinatorics Seminar	Stanford, CA
Birmingham Combinatorics Seminar IHÉS Seminar Warwick DIMAP Seminar LSE/Queen Mary Colloquia in Combinatorics Oberwolfach workshop: Combinatorics, Probability and Computing Simons Symposium: Analysis of Boolean Functions Birmingham, UK Bures-sur-Yvette, France Coventry, UK Coventry, UK Oberwolfach workshop: Combinatorics, Probability and Computing Simons Symposium: Analysis of Boolean Functions Krün, Germany British Mathematical Colloquium: Combinatorics Workshop Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		Oberwolfach workshop: Combinatorics	Oberwolfach, Germany
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Warwick DIMAP Seminar Coventry, UK LSE/Queen Mary Colloquia in Combinatorics London, UK Oberwolfach workshop: Combinatorics, Probability and Computing Simons Symposium: Analysis of Boolean Functions Krün, Germany British Mathematical Colloquium: Combinatorics Workshop Oxford Mathematical Institute North meets South Colloquium Oxford, UK		Birmingham Combinatorics Seminar	Birmingham, UK
LSE/Queen Mary Colloquia in Combinatorics Coberwolfach workshop: Combinatorics, Probability and Computing Simons Symposium: Analysis of Boolean Functions British Mathematical Colloquium: Combinatorics Workshop Oxford Mathematical Institute North meets South Colloquium Derwolfach, Germany Krün, Germany Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		IHÉS Seminar	Bures-sur-Yvette, France
Oberwolfach workshop: Combinatorics, Probability and Computing Simons Symposium: Analysis of Boolean Functions British Mathematical Colloquium: Combinatorics Workshop Oxford Mathematical Institute North meets South Colloquium Oberwolfach, Germany Bristol, UK Oxford Mathematical Institute North meets South Colloquium Oxford, UK		Warwick DIMAP Seminar	Coventry, UK
Simons Symposium: Analysis of Boolean Functions Krün, Germany British Mathematical Colloquium: Combinatorics Workshop Oxford Mathematical Institute North meets South Colloquium Oxford, UK		LSE/Queen Mary Colloquia in Combinatorics	London, UK
British Mathematical Colloquium: Combinatorics Workshop Oxford Mathematical Institute North meets South Colloquium Oxford, UK		Oberwolfach workshop: Combinatorics, Probability and Computing	Oberwolfach, Germany
Oxford Mathematical Institute North meets South Colloquium Oxford, UK		Simons Symposium: Analysis of Boolean Functions	Krün, Germany
		British Mathematical Colloquium: Combinatorics Workshop	Bristol, UK
AMS-MAA Joint Mtgs: AMS Spec. Session on Pseudorandomness and Its Applications Seattle, WA		Oxford Mathematical Institute North meets South Colloquium	Oxford, UK
		AMS-MAA Joint Mtgs: AMS Spec. Session on Pseudorandomness and Its	Applications Seattle, WA

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2015 London School of Economics Discrete Mathematics and Game Theory Semi	inar London, UK
Queen Mary Combinatorics Seminar	London, UK
Warwick Combinatorics Seminar	Coventry, UK
Oxford Combinatorial Theory Seminar	Oxford, UK
Northeastern U. workshop: Random Graphs, Simplicial Complexes, and the	eir Appl'ns Boston, MA
U. of Chicago Combinatorics and Theoretical Computer Science Seminar	Chicago, IL
Rutgers Discrete Math Seminar	Piscataway, NJ
ICERM workshop: Crystals, Quasicrystals and Random Networks	Providence, RI
2014 Atlanta Lectures Series in Combinatorics and Graph Theory at Emory	Atlanta, GA
GSU Colloquium	Atlanta, GA
CRM workshop: New Topics in Additive Combinatorics	Montreal, QC
IMA workshop: Additive and Analytic Combinatorics	Minneapolis, MN
Clay Math Institute workshop: Extremal and Probabilistic Combinatorics	Oxford, UK
Georgia Tech Combinatorics Seminar	Atlanta, GA
IAS Computer Science/Discrete Mathematics Seminar	Princeton, NJ
Oxford Combinatorial Theory Seminar	Oxford, UK
London School of Economics Discrete Mathematics and Game Theory Semi	inar London, UK
Eurandom: Minicourse on Graph Limits (6-hour minicourse co-taught with Christian Borgs)	Eindhoven, Netherlands
Oberwolfach workshop: Combinatorics	Oberwolfach, Germany
2013 Simons Institute workshop: Neo-Classical Methods in Discrete Analysis	Berkeley, CA
Rutgers Discrete Math Seminar	Piscataway, NJ
MIT Combinatorics Seminar	Cambridge, MA
Yale Combinatorics and Probability Seminar	New Haven, CT
Microsoft Research Theory Reading Group	Cambridge, MA
Oberwolfach workshop: Combinatorics and Probability	Oberwolfach, Germany
2012 MIT Combinatorics Seminar	Cambridge, MA
SIAM Conference on Discrete Mathematics	Halifax, NS
2009 MIT Combinatorics Seminar	Cambridge, MA

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Teaching

Graph Theory and Additive Combinatorics (graduate, MIT)

Lecture videos available through MIT OpenCourseWare: https://yufeizhao.com/gtacbook/

Term	Enrollment (credit + listener)	Instructor evaluation (max 7)
Fall 2021	36 + 9	6.7
Fall 2019	30 + 14	6.9
Fall 2017	31 + 17	7.0

Probabilistic Methods in Combinatorics (graduate, MIT)

Lecture notes: https://yufeizhao.com/pm/

Fall 2022	54 + 12	6.9
Fall 2020	25 + 16	Not rated due to COVID
Spring 2019	47 + 25	6.9

Combinatorial Analysis (undergraduate, MIT)

Fall 2018	22 + 7	6.8	
1411 = 010	,	0.0	

Mathematical Problem Solving: Putnam Seminar (undergrad first-year seminar, MIT)

Fall 2022	21	6.4
Fall 2021	26	6.7
Fall 2020	16	Not rated due to COVID
Fall 2019	22	6.3
Fall 2018	22	6.4
Fall 2017	10	6.3

Previous teaching:

Polynomial Method in Combinatorics, graduate-level, Oxford, 2016 Undergraduate tutorials in geometry, Oxford, 2016

Other Experiences and Activities

Organizer and Chief Coordinator of Cyberspace Mathematical Competition (CMC) 2020

Quantitative Research Intern, D. E. Shaw & Co., New York

MIT Lusztig PRIMES Mentor

Research Experience for Undergraduates at Duluth participant (mentor: Joe Gallian)

Deputy Leader for Canadian IMO Team

Instructor at Canadian IMO Training Camps

Mentor at AwesomeMath Summer Program, Dallas

Trainer at US Math Olympiad Summer Program (MOP), Lincoln, Nebraska

Teacher at Spirit of Math Schools, Toronto

CV updated: February 20, 2023