

Jacob Fox

Department of Mathematics
Stanford University
Building 380, Stanford, California 94305
jacobfox@stanford.edu
stanford.edu/~jacobfox

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Employment and Education

Professor of Mathematics, Stanford University, January 2015–Present
(and Computer Science, by courtesy), 2018–Present
Associate Professor of Applied Mathematics with Tenure, MIT, July 2014–December 2014
Assistant Professor of Applied Mathematics, MIT, 2010–June 2014
Ph.D. in Mathematics, Princeton University, Advisor: Benny Sudakov, 2006–2010
B.S. in Theoretical Mathematics, MIT, 2002–2006

Grants and Fellowships

NSF grant DMS 2452737 – 2025–2027
NSF grant DMS 2154129 – 2022–2026
NSF grant DMS 1953990 – 2022–2023
NSF grant DMS 1855635 – 2019–2022
Packard Fellowship – 2013–2022
NSF CAREER Grant DMS 1352121 – 2014–2019
Stanford VPTL Grant – 2016
Alfred P. Sloan Research Fellowship – 2013–2015
Co-PI, NSF grant for MIT PRIMES program – 2012–2015
NEC Corporation Award, MIT – 2012–2014
NSF grant DMS 1069197 – 2011–2014
Simons Fellowship at MIT – 2010–2013
Princeton Centennial Fellowship – 2006–2009
NSF Graduate Research Fellowship – 2006–2009

Selected Awards

Simons Visiting Professor at the Simons Laufer Mathematical Sciences Institute, January–May 2025
Presidential Early Career Award for Scientists and Engineers (PECASE) – 2017
Oberwolfach Prize – 2016
Invited speaker, Combinatorics Section, International Congress of Mathematicians, Seoul – 2014
Edmund F. Kelly Research Award, MIT – 2012
SIAM Discrete Mathematics Dénes König Prize – 2010
AMS-MAA-SIAM Morgan Prize for Undergraduate Mathematics Research – 2006
MIT Jon A. Bucsela Prize in Mathematics – 2006
Barry Goldwater Scholar – 2005

Intel Science Talent Search – 2nd place – 2002
International Science and Engineering Fair – 1st place in Mathematics – 2002
Siemens Westinghouse Science & Technology Competition – 4th place – 2001

Professional Experience

Organizer, Oberwolfach Workshop on Graph Theory (January 2026)
Organizer, IAS/PCMI 2025 on Probabilistic and Extremal Combinatorics (Summer 2025)
Prize Committee, European Prize in Combinatorics 2025
Lead Organizer, Semester on Extremal Combinatorics, SLMI, Berkeley (Spring 2025)
Organizer, Combinatorics workshop at Clay Mathematics Institute (Fall 2024)
Program Committee for SODA 2024
Chair, AMS David P. Robbins Prize Selection Committee (February 2024–January 2025)
Organizer, Workshop on Structural Results, Simons Institute, Berkeley (July 2023)
Organizer, Analysis & TCS program: New Frontiers, Simons Institute, Berkeley (Summer 2023)
Associate Editor of Annals of Mathematics (September 2022–Present)
Editor of Transactions of the American Mathematical Society (August 2022–Present)
Editor of Memoirs of the American Mathematical Society (August 2022–Present)
Editor of Compositio Mathematica (January 2022–Present)
Editor of TheoretiCS (2021–2022)
Steering Committee, Workshop on Local Algorithms (WOLA) (2021–Present)
Editor of Combinatorial Theory (Fall 2020–Present)
Member of Subcommittee of the Stanford Science Fellows Committee (Fall 2020–Fall 2021)
Member, AMS Birman Fellowship Committee (July 2020–June 2022)
Editor of Random Structures & Algorithms (2020–Present)
Co-organizer, Workshop on Online Algorithms 2020 (WOLA 2020)
Member, Committee on Undergraduate Admission & Financial Aid, Stanford (2018 – 2023)
Director of the Stanford Mathematics Research Center (Fall 2018–Present)
Organizer, Bennyfest: A Combinatorial Celebration (July 20, 2019)
Editor of Forum of Mathematics Pi & Sigma (Fall 2019–Present)
Arithmetic Ramsey Theory in Manchester, Organizer (September 2018)
Appointments Committee, Department of Mathematics, Stanford, (Fall 2017–2024)
Scientific Board, American Institute of Mathematics, (Summer 2017–Present)
Organizer for the Stanford Combinatorics Seminar (Fall 2015–Present)
Associate Editor of the Cambridge Journal of Mathematics (December 2015–Present)
Editor of Annals of Combinatorics (Fall 2014–Fall 2019)
Editor of the Electronic Journal of Combinatorics (Fall 2013–Present)
Editor-in-Chief of the Journal of Combinatorial Theory Series A (2014–2016), Editor (2016–2020)
Managing editor of the Journal of Graph Theory (Fall 2010–Fall 2016), Editor (Fall 2016–Present)
Steering Committee, Special Year on Combinatorics and Computer Science, Harvard University Center of Mathematical Sciences and Applications (Fall 2017–Spring 2018)
Co-organizer, Semester on Pseudorandomness, Simons Institute, Berkeley (Spring 2017)
Co-organizer, Workshop on Structure vs. Randomness, Simons Institute, Berkeley (April 2017)
Strategic Planning Committee, Department of Mathematics, Stanford, (Winter 2017)

NSF Department of Mathematical Sciences (DMS) Visiting Committee (Fall 2016)
 Program Committee for the SIAM Conference on Discrete Mathematics (June 2016)
 Co-organizer for the AIM Graph Ramsey Theory Workshop (January 2015)
 Frank and Brennie Morgan Prize Committee (2014–2017, Chair 2016)
 Ramsey Theory Minisymposium, 2014 SIAM Conference on Discrete Mathematics (June 2014)
 Co-organizer for the MIT Combinatorics Seminar (Fall 2010–December 2014)
 MIT math faculty advisor for the Research Science Institute (2013)
 Co-Director of the MIT Math Summer Program for Undergraduate Research (2013)
 Program Committee for EUROCOMB 2013
 Organizer for the MIT Math Graduate Research Lunch Seminar (Spring 2013)
 Co-organizer for the SIAM Minisymposium on Probabilistic Combinatorics, Boston (2012)
 Long-term participant at the IPAM special semester in combinatorics (Fall 2009)
 Co-organizer for the Princeton Discrete Mathematics Seminar (Fall 2008–Spring 2009)

Teaching

MATH 107: Graph Theory (Fall 2024)
 MATH 233C Topics in Combinatorics (Spring 2024)
 MATH 61DM Modern Mathematics: Discrete Methods (Fall 2023)
 MATH 63DM Modern Mathematics: Discrete Methods (Spring 2023)
 MATH 233C Topics in Combinatorics: Additive Combinatorics (Spring 2023)
 MATH 107: Graph Theory (Spring 2022)
 MATH 233C: Topics in Combinatorics (Spring 2022)
 MATH 101: Math Discovery Lab (Winter 2022)
 MATH 108: Introduction to Combinatorics (Summer 2021)
 MATH 101: Math Discovery Lab (Summer 2021)
 MATH 233C: Topics in Combinatorics: Extremal & Probabilistic Combinatorics (Spring 2021)
 MATH 233B: Topics in Combinatorics (Winter 2020)
 MATH 62DM Modern Mathematics: Discrete Methods (Winter 2020)
 MATH 110 Applied Field Theory (Spring 2019)
 MATH 235A Topics in Combinatorics: Algebraic Methods (Spring 2019)
 MATH 61DM Modern Mathematics: Discrete Methods (Fall 2018)
 MATH 61DM Modern Mathematics: Discrete Methods (Fall 2017)
 MATH 233C Topics in Combinatorics: Algebraic Methods (Spring 2017)
 MATH 61DM Modern Mathematics: Discrete Methods (Fall 2016)
 MATH 101 Math Discovery Lab (Fall 2016)
 MATH 107 Graph Theory at Stanford (Spring 2016)
 MATH 253A Topics in Combinatorics at Stanford (Fall 2015)
 18.310 Principles of Discrete Applied Mathematics at MIT (Fall 2014)
 18.318 Probabilistic Methods in Combinatorics at MIT (Spring 2014)
 18.304 Undergraduate Seminar in Discrete Mathematics at MIT (Spring 2014)
 18.316 Seminar in Combinatorics at MIT (Fall 2013)
 18.318 Geometric Graph Theory at MIT (Spring 2013)
 18.315 Extremal Combinatorics at MIT (Fall 2011)

18.997 Probabilistic Methods in Combinatorics at MIT (Spring 2011)
MAT 307 Combinatorics at Princeton (Spring 2009)
18.821 (TA) Project Mathematics Laboratory at MIT (Spring 2006)

Ph.D. Students

Stanford: Current: Shengtong Zhang, Carl Schildkraut. Past: Maya Sankar (graduated 2025, IAS member), Max Xu (graduated 2024, jointly advised with K. Soundararajan, Simons Fellow at NYU), Cynthia Stoner (graduated 2024), Yunkun Zhou (graduated 2024), Huy Tuan Pham (graduated 2023, Clay Research Fellow and Caltech assistant professor), Sammy Luo (graduated 2023, MIT NSF postdoc), Ray Li (graduated 2022, UC Berkeley NSF postdoc, Santa Clara assistant professor), Yuval Wigderson (graduated 2022, Junior Fellow, Institute for Theoretical Studies, ETH Zürich), Xiaoyu He (graduated 2021, Princeton NSF postdoc, Georgia Tech assistant professor), Fan Wei (graduated 2019, IAS and Princeton postdoc, Duke assistant professor), Lisa Sauermann (graduated 2019, IAS postdoc, MIT assistant professor, now Hausdorff Chair professor at University of Bonn)

MIT: László M. Lovász (graduated 2017, formerly UCLA and MIT NSF postdoc), Andrey Grinshpun (graduated 2015), Yufei Zhao (graduated 2015, MIT tenured associate professor)

Postdoctoral/Szegő Researchers at Stanford and MIT

Current: Tara Abrishami, Maria-Romina Ivan; Former: Jonathan Tidor, Huy Tuan Pham, Hunter Spink, Jinyoung Park, Lisa Sauermann, Matthew Kwan, Freddie Manners, Peter Csikvari, Choongbum Lee, Andrew Suk

Referee

NSF DMS Committee of Visitors

Grant Reviews: NSF panels in Combinatorics, Computational Geometry, ERC, NSA, Simons Foundation collaboration review.

Journals: Annals of Mathematics, Inventiones Mathematicae, Journal of the AMS, Advances in Mathematics, Selecta Mathematica, Journal of Combinatorial Theory Series A, Journal of Combinatorial Theory Series B, Combinatorica, Random Structures and Algorithms, SIAM Journal of Discrete Mathematics, Journal of Combinatorics, Journal of Graph Theory, Electronic Journal of Combinatorics, Discrete Mathematics, Graphs & Combinatorics, Probability, and Computing, and various conference proceedings.

Invited Lecture Series

Marston Morse Lecture Series, Institute for Advanced Studies, Princeton (Fall 2016)

Ahlfors Lecture Series, Harvard, Cambridge, Massachusetts (September 2015)

Nachdiplom Lecture Series, ETH, Zurich, Switzerland (Spring 2015)

Stanford Math Research Center Distinguished Lecture Series, Palo Alto, California (January 2014)

Selected Invited Talks

2025

Colloquium, UC Berkeley, Berkeley, California
Colloquium, Duke University, Durham, North Carolina
Graph Theory Workshop, Oberwolfach, Germany
Algebraic and Analytic Methods in Combinatorics Workshop, SLMI, Berkeley, California
Triangles Lectures in Combinatorics, Duke University, Durham, North Carolina
Simons Workshop on New Frontiers in Combinatorics & Computer Science, Elmau, Germany
Topics in Ramsey theory, Sparse graphs coalition workshop, online
Finite Geometry and Ramsey theory, Banff, Canada

2024

Colloquium, Princeton PACM, Princeton, New Jersey
Colloquium, UBC, Vancouver, Canada
Summit 280 Workshop, plenary talk, Budapest, Hungary
Plenary talk, 10th Polish Combinatorial Conference, Bedlewo, Poland
Workshop on Additive Combinatorics, ICMS, Edinburgh, Scotland
Mathematical Picture Language Seminar, Harvard, Cambridge, Massachusetts
Combinatorics Seminar, MIT, Cambridge, Massachusetts
Probability Seminar, Stanford University, Stanford, California
AMS Special Session on Mathematics and Quantum, JMM, San Francisco, California

2023

Richard M. Karp Distinguished Lecture, Simons Institute, Berkeley
Distinguished Tutte Lecture, University of Waterloo
Colloquium, University of Washington & PIMS, Seattle, Washington
Colloquium, Rényi Institute, Budapest, Hungary
Combinatorics seminar, University of Amsterdam
Workshop on Ramsey Theory, UCSD, La Jolla, California
Convex and Discrete Geometry Workshop, Erdős Center, Budapest, Hungary
Gallianfest, University of Minnesota Duluth
21st Conference on Random Structures and Algorithms, Carnegie Mellon University

2022

ACM-SIAM Symposium on Discrete Algorithms (SODA22), plenary talk
Colloquium, UCSC, Santa Cruz
Recent advances in probabilistic and extremal combinatorics, Ascona, Switzerland
Combinatorial Geometry and Ramsey theory, UCSD, La Jolla, California
Combinatorics Seminar, Institut für Diskrete Mathematik, TU Graz
Graph Theory Workshop, Oberwolfach, Germany

2021

Mathematical Congress of the Americas, Invited Address (Online)

New Perspectives in Colouring and Structure, Banff, Canada
Colloquium, University of Chicago, Chicago, Illinois
Round the World Relay in Combinatorics, Oxford, England
Combinatorics Seminar, Stanford University, Stanford, California

2020

Machine Learning and Combinatorics, Moscow, Russia
Workshop on Graph Coloring, Banff, Canada
Additive combinatorics, Centre International de Rencontres Mathématiques, Marseille, France
Big Seminar, Combinatorial and Geometric Structures, MIPT, Moscow, Russia

2019

Atlanta Lecture Series in Combinatorics and Graph Theory V, featured speaker, Atlanta, Georgia
Colloquium, Georgia Tech, Atlanta,
Workshop on Probabilistic and Extremal Combinatorics, Banff, Canada
19th Conference on Random Structures and Algorithms, ETH Zürich, Switzerland
Graph Theory Workshop, Oberwolfach, Germany
Colloquium, UCSD, San Diego
Combinatorics and Probability Workshop, Oberwolfach, Germany

2018

Harvard Center for Mathematical Sciences and Applications, public lecture, Harvard, Cambridge, Massachusetts
Georgia Discrete Analysis, keynote speaker, University of Georgia, Atlanta, Georgia
Building Bridges II, Celebrating László Lovász 70th birthday conference, Budapest, Hungary
Recent Advances in Extremal Combinatorics, Clay Mathematics Institute, Oxford, England
Arithmetic Ramsey Theory, Manchester, England
Heilbronn Institute Annual Conference, distinguished lecture, Bristol, England
Probability Seminar, Stanford University, Stanford, California
Pseudorandomness Reunion Workshop, Simons Institute, Berkeley, California
Sublinear algorithms, local algorithms, and robust statistics, MIT, Cambridge, Massachusetts

2017

Oberwolfach Prize Lecture, Oberwolfach, Germany
18th Conference on Random Structures and Algorithms, plenary talk, Gniezno, Poland
5th International Combinatorics Conference, plenary talk, Monash University, Australia
Additive Combinatorics Workshop, Harvard CMSA, Harvard, Cambridge, Massachusetts
Pseudorandomness Bootcamp, Simons Institute, Berkeley, California
Proving and Using Pseudorandomness Workshop, Simons Institute, Berkeley, California
Probability Seminar, Stanford University, Stanford, California
Geometric and Structural Graph Theory, Banff, Canada
Mathematical Congress of the Americas, Extremal & Probabilistic Combinatorics, Montreal, Canada
Mathematical Congress of the Americas, Current Trends in Combinatorics, Montreal, Canada

2016

Colloquium, Charles University, Prague, Czech Republic
International Symposium on Computational Geometry, main invited speaker, Boston, Massachusetts
A New Era of Discrete & Computational Geometry, Monte Verità, Ascona, Switzerland
Extremal Combinatorics @ Illinois III, Illinois Institute of Technology, Chicago, Illinois
Probabilistic and Extremal Combinatorics, FIM, ETH Zürich, Switzerland
Combinatorics: Challenges and Applications: Celebrating Noga Alon's 60th Birthday, Tel Aviv University, Tel Aviv, Israel
Networked Life: Celebrating the life and career of Fan Chung and Ron Graham, UCSD, San Diego
Combinatorics and Probability Workshop, Oberwolfach, Germany
Graph Theory Workshop, Oberwolfach, Germany
Combinatorics Seminar, Stanford University, Stanford, California

2015

Random Matrix and Probability Theory Seminar, Harvard, Cambridge, Massachusetts
Colloquium, Stanford University, Stanford, California
Graph Ramsey Theory Workshop, American Institute of Mathematics, San Jose, California
Connections in Discrete Mathematics: Ron Graham celebration, plenary talk, Vancouver, Canada
Borel Seminar: High Dimensional Expanders 2015, Les Diablerets, Switzerland
Ascension of Combinatorics, EPFL, Lausanne, Switzerland
Combinatorics Seminar, Stanford University, Stanford, California
Computer Science/Discrete Math Seminar, Institute for Advanced Study, Princeton, New Jersey
31st Bay Area Discrete Math Day, San Francisco State University, San Francisco, California
Methods and Challenges in Extremal and Probabilistic Combinatorics, Banff, Canada
Combinatorics Seminar, UC Berkeley
Probability Seminar, Stanford University, Stanford, California

2014

International Congress of Mathematicians, combinatorics section, Seoul, Korea
SIAM Conference on Discrete Mathematics, plenary talk, Minneapolis, Minnesota
Summit:240 birthday conference for Frankl, Füredi, Györi, Pach, plenary talk, Budapest, Hungary
Colloquium, Dartmouth, Hanover, New Hampshire
Symposium Diskrete Mathematik 2014, Frankfurt, Germany
45th SEICCGTC, plenary talk, Boca Raton, Florida
Probabilistic and Extremal Combinatorics, IMA, Minneapolis, Minnesota
Additive and Analytic Combinatorics, IMA, Minneapolis, Minnesota
Combinatorics Workshop, Oberwolfach, Germany
Seminar, Graphs, Hypergraphs, and Computing, Institut Mittag-Leffler, Djursholm, Sweden
Theoretical Computer Science Seminar, KTH, Stockholm, Sweden
Extremal Combinatorics Workshop, ICMS, Edinburgh, Scotland
Extremal and Probabilistic Combinatorics Workshop, Clay Mathematics Institute, Oxford, UK
Combinatorics Seminar, MIT
Discrete Mathematics Seminar, Princeton
ICM2014 Satellite Conference on Extremal and Structural Graph Theory, Gyeongju, Korea

2013

24th British Combinatorial Conference, plenary talk, London, UK
Erdős Centennial Conference, Budapest, Hungary
Combinatorics and Probability Workshop, Oberwolfach, Germany
Graph Theory Workshop, Oberwolfach, Germany
Combinatorics and Probability Seminar, Yale University
Computer Science/Discrete Math Seminar, Institute for Advanced Study
Combinatorics Seminar, MIT
16th Conference on Random Structures and Algorithms, Poznan, Poland
Workshop on Probabilistic and Extremal Combinatorics, UCLA
Algorithms, Combinatorics and Optimization Seminar, Carnegie Mellon University
Geometric and Topological Graph Theory Workshop, Banff, Canada

2012

Abel Prize Conference to honor Endre Szemerédi, plenary talk, Minneapolis, Minnesota
Atlanta Lecture Series in Combinatorics and Graph Theory V, featured speaker, Atlanta, Georgia
CRM Conference on Perspectives in Discrete Mathematics, plenary talk, Barcelona, Spain
Colloquium, Freie University, Berlin, Germany
Colloquium on Discrete Mathematics and Computer Science, École Polytechnique, Paris, France
Conference on Graphs and Analysis, Institute for Advanced Study
One-Day Meeting in Combinatorics, Oxford University, Oxford, UK
Combinatorics Seminar, Cambridge University, Cambridge, UK
Additive Combinatorics in Paris 2012, Paris, France
Robin Thomas 50th birthday conference, Atlanta, Georgia
New Trends and Directions in Combinatorics, Banff, Canada
SIAM Minisymposium on Probabilistic Combinatorics, Boston, MA
Erdős Memorial Lecture, Memphis, Tennessee
Combinatorics Seminar, MIT
Algorithms, Combinatorics and Optimization Seminar, Carnegie Mellon University
Discrete Mathematics Seminar, London School of Economics and Political Science, London, UK
Workshop on χ -bounded graph classes, ENS Lyon, Lyon, France

2011

15th Conference on Random Structures and Algorithms, plenary talk, Atlanta, Georgia
EuroComb'11, plenary talk, Budapest, Hungary
3rd Canadian Discrete and Algorithmic Math. Conference, plenary talk, Victoria, BC, Canada
Discrete Mathematics Seminar, Princeton University
Combinatorics Workshop, Oberwolfach, Germany
Hypergraph Turán Problems Workshop, American Institute of Mathematics
Combinatorics Seminar, UCLA

2010

SIAM Discrete Mathematics Dénes König Prize Plenary Lecture

New Trends on Structural Graph Theory, plenary talk, Banff, Canada
Colloquium, UIC
Combinatorics Seminar, MIT
Applied Mathematics Seminar, MIT
Probability Seminar, MIT
Computer Science/Discrete Math Seminar, Institute for Advanced Study
Discrete Mathematics Seminar, Princeton University
Theory of Computing Seminar, NYU
Geometric Graph Theory Workshop, Lausanne, Switzerland
Combinatorics Seminar, Georgia Tech
Algorithms, Combinatorics, and Optimization Seminar, Georgia Tech
Combinatorics Seminar, UCLA
Graph Theory Workshop, Oberwolfach, Germany

2009

Colloquium, UCLA
Computer Science/Discrete Math Seminar, Institute for Advanced Study
Combinatorics and Probability Workshop, Oberwolfach, Germany
Combinatorial Geometry Workshop, Institute for Pure and Applied Mathematics
Combinatorics Tutorials, Institute for Pure and Applied Mathematics
Workshop on Probabilistic and Extremal Combinatorics, Banff, Canada
DIMACS Workshop on Graph Colouring and Structure, Princeton University
Discrete Mathematics Seminar, Rutgers University
DIMACS Workshop on Ramsey Theory, Rutgers University

2008

Geometry Seminar, NYU
Princeton-Oxford Workshop, Oxford University, Oxford, England
Computer Science/Discrete Math Seminar, Institute for Advanced Study
Discrete Mathematics Seminar, Columbia University
Discrete Mathematics Seminar, Princeton University
Combinatorics Seminar, UCLA
Discrete and Convex Geometry Workshop, Renyi Institute, Budapest, Hungary

2007

Graph Theory Workshop, Oberwolfach, Germany
Workshop on Extremal Graphs and Hypergraphs, Carnegie Mellon University
Combinatorics Seminar, Ohio State University
Combinatorial and Additive Number Theory Conference, CUNY
Combinatorics Seminar, CUNY

2006

Combinatorics Seminar, MIT
Discrete Mathematics Seminar, Princeton University

Workshop on Topological Graph Theory and Crossing Numbers, Banff, Canada
 Geometry Seminar, NYU
 Discrete Mathematics Seminar, Simon Fraser University, Burnaby, Canada
 AMS-SIAM Conference on Discrete and Computational Geometry, Snowbird, UT
 New York Number Theory Seminar, CUNY
 Colloquium, Vassar College
 CRM-Clay Workshop on Additive Combinatorics, Université de Montréal, Montreal, Canada
 Discrete Math and Theory of Computation Seminar, Rutgers University

2005

Logic Seminar, MIT
 Combinatorics Reading Seminar, UCSD
 Combinatorics Seminar, CUNY

2004

Colloquium, Rutgers University
 Logic Seminar, MIT
 Combinatorics Seminar, MIT

Publications

Submitted

1. D. Conlon, J. Fox, H. T. Pham, and L. Yepremyan, On the clique number of random Cayley graphs and related topics.
2. J. Fox, N. Kravitz, S. Zhang, Finer control on relative sizes of iterated sumsets.
3. J. Fox, M. Sankar, M. Simkin, J. Tidor, and Y. Zhou, Ramsey and Turán numbers of sparse hypergraphs.

To appear

4. D. Conlon, J. Fox, and H. T. Pham, Homogeneous structures in subset sums and non-averaging sets, *Communications of the American Mathematical Society*.
5. D. Conlon, J. Fox, and H. T. Pham, Subset sums, completeness and colorings, *Journal of the European Mathematical Society*.
6. J. Fox, Stanley-Wilf limits are typically exponential, *Advances in Mathematics*.
7. D. Conlon, J. Fox, B. Gunby, X. He, D. Mubayi, A. Suk, J. Verstraëte, and H.-H. H. Yu, When are off-diagonal hypergraph Ramsey numbers polynomial?, *Proceedings of the American Mathematical Society*.
8. M. Bucic, J. Fox and H. T. Pham, Equivalence between Erdős-Hajnal and polynomial Rödl and Nikiforov conjectures, *Bulletin of the London Mathematical Society*.

9. J. Fox, R. Nenadov, and H. T. Pham, The largest subgraph without a forbidden induced subgraph, *Combinatorica*.
10. J. Fox, Constructing dense graphs with sublinear Hadwiger number, *Journal of Combinatorial Theory Series B*.
11. J. Fox, Z. Himwich, N. Mani, and Y. Zhou, Variations on Sidorenko’s conjecture in tournaments, *Journal of Graph Theory*.
12. J. Fox and H. T. Pham, A multipartite analogue of Dilworth’s theorem, *Order*.
13. D. Conlon, J. Fox, X. He, D. Mubayi, H. T. Pham, A. Suk and J. Verstraëte, A question of Erdős and Graham on Egyptian fractions, *Discrete Analysis*.

2026

14. J. Fox, J. Tidor, and S. Zhang, Triangle Ramsey numbers of complete graphs, *Journal of Combinatorial Theory Series B* **176** (2026), 268–286.
15. D. Conlon, J. Fox, X. He, D. Mubayi, H. T. Pham, A. Suk and J. Verstraëte, Big line or big convex polygon, *Computational Geometry* **131** (2026), Paper No. 102218.

2025

16. D. Conlon, J. Fox, B. Gunby, X. He, D. Mubayi, A. Suk, and J. Verstraëte, On off-diagonal hypergraph Ramsey numbers, *International Mathematics Research Notices IMRN* (2025), Paper No. 11, rnafl22, 22 pp.
17. D. Bradač, J. Fox, and B. Sudakov, Ramsey numbers of hypergraphs of a given size, *Mathematical Proceedings of the Cambridge Philosophical Society* **178** (2025), 31–44.
18. J. Fox, J. Pach, and A. Suk, A structure theorem for pseudosegments and its applications, *Journal of Combinatorial Theory Series B* **174** (2025), 99–132. A preliminary version appeared in the 40th International Symposium on Computational Geometry (2024), Art. No. 59, 14 pp.
19. J. Fox, T. Nguyen, A. Scott, and P. Seymour, Induced subgraph density. II. Sparse and dense sets in cographs, *European Journal of Combinatorics* **124** (2025), Paper No. 104075, 14 pp.
20. J. Fox, Z. Himwich, N. Mani, and Y. Zhou, A note on directed analogues of the Sidorenko and forcing conjectures, *Electronic Journal of Combinatorics* **32** (2025), P3.38.
21. J. Fox, J. Pach, and A. Suk, Immersions and Albertson’s conjecture, 41st International Symposium on Computational Geometry (SOCG) 2025, Art. No. 50, 10 pp.
22. J. Fox, J. Pach, and A. Suk, On the number of edges of separated multigraphs, *Journal of Graph Theory* **109** (2025), 210–217. A preliminary version appeared in: Graph drawing and network visualization, vol. 12868 of LNCCS, Springer, 2021, 223–227.

2024

23. J. Fox, X. He, and Y. Wigderson, Ramsey numbers of sparse digraphs, *Israel Journal of Mathematics* **263** (2024), 1–48.
24. J. Fox, M. W. Xu, and Y. Zhou, Discrepancy of arithmetic progressions in grids, *Mathematika* **70** (2024), e12237.
25. J. Fox, Z. Himwich, and N. Mani, Extremal results on feedback arc sets in digraphs, *Random Structures Algorithms* **64** (2024), 287–308.
26. J. Fox, S. Luo, H. T. Pham, and Y. Zhou, Small subsets with large sumset: Beyond the Cauchy–Davenport bound, *Combinatorics, Probability, and Computing*, **33** (2024), 411–431.
27. D. Bradač, J. Fox, and B. Sudakov, The growth rate of multicolor Ramsey numbers of 3-graphs, *Research in the Mathematical Sciences*, **11** (2024), Paper No. 52, 16 pp.
28. J. Fox, J. Pach, and A. Suk, Enumeration of intersection graphs of x-monotone curves, 32nd International Symposium on Graph Drawing and Network Visualization, Art. No. 4, 12 pp.
29. J. Fox, S. Luo, and H. T. Pham, On random irregular subgraphs, *Random Structures Algorithms* **64** (2024), 899–917.
30. D. Conlon, J. Fox, X. He, D. Mubayi, A. Suk, and J. Verstraëte, Set-coloring Ramsey numbers via codes, *Studia Scientiarum Mathematicarum Hungarica*, **61** (2024), 1–15.
31. J. Fox, J. Pach, and A. Suk, Quasiplanar graphs, string graphs, and the Erdős–Gallai problem, *European Journal of Combinatorics* **119** (2024), Paper No. 103811, 10 pp. A preliminary version appeared in: Graph drawing and network visualization, vol. 13764 of LNCCS, Springer, 2023, 219–231.
32. D. Conlon, J. Fox, H. T. Pham, and Y. Zhao, Set-coloring Ramsey numbers and error-correcting codes near the zero-rate threshold, *IEEE Transactions on Information Theory* **70** (2024), 4074–4078.

2023

33. J. Fox, H. T. Pham, and Y. Zhao, Tower-type bounds for Roth’s theorem with popular differences, *Journal of the European Mathematical Society* **25** (2023), 3795–3831.
34. J. Fox, M. Kwan, and H. Spink, Geometric and o-minimal Littlewood–Offord problems, *Annals of Probability* **51** (2023), 101–126.
35. D. Conlon, J. Fox, and Y. Wigderson, Three early problems on size Ramsey numbers, *Combinatorica* **43** (2023), 743–768.
36. J. Fox, J. Pach, and A. Suk, Sunflowers in set systems of bounded dimension, *Combinatorica* **43** (2023), 187–202. A preliminar version appeared in
37. J. Fox, J. Pach, and A. Suk, Sunflowers in set systems of bounded dimension, A preliminary version appeared in the 37th International Symposium on Computational Geometry (2021), Art. No. 37, 13 pp.

38. D. Conlon, J. Fox, X. He, D. Mubayi, A. Suk, and J. Verstraëte, Hypergraph Ramsey numbers of cliques versus stars, *Random Structures Algorithms* **63** (2023), 610–623.
39. J. Fox and Y. Wigderson, Ramsey multiplicity and the Turán coloring, *Advances in Combinatorics* (2023), Paper No. 2, 39 pp.
40. D. Conlon, J. Fox, and Y. Wigderson, Off-diagonal book Ramsey numbers, *Combinatorics, Probability, and Computing* **32** (2023), 516–545.
41. J. Fox, X. He, and Y. Wigderson, Ramsey goodness of books revisited, *Advances in Combinatorics* (2023) Paper No. 4, 21 pp.
42. J. Fox and Y. Wigderson, Minimum degree and the graph removal lemma, *Journal of Graph Theory* **102** (2023), 648–665.
43. J. Fox, Z. Himwich, and N. Mani, Making an H -free graph k -colorable, *Journal of Graph Theory* **102** (2023), 234–261.
44. D. Conlon, J. Fox, B. Sudakov, and F. Wei, Threshold Ramsey multiplicity for paths and even cycles, *European Journal of Combinatorics* **107** (2023), Paper No. 103612, 27 pp.

2022

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