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 Assistant Professor of Mathematics | Cambridge, MA 2017— |
|---|-----------------------------|
| Class of 1956 Career Development Assistant Professor | 2018—2021 |
| 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

NSF CAREER award, 2021

MIT UROP Outstanding Mentor Award for Faculty, 2020

MIT First Year Advisor Award—Innovative Seminar, 2019

Sloan Research Fellowship, 2019

MIT Future of Science award, 2018

SIAM Dénes König Prize, 2018

Johnson Prize, MIT Mathematics Department, 2015

Microsoft Research PhD Fellowship, 2013–2015

Morgan Prize Honorable Mention, 2011

Gates Cambridge Scholarship, 2010–2011

MIT Jon A. Bucsela Prize in 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, additive, graph theory, discrete geometry)

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 |

Research Internships

Microsoft Research New England
Mentor: Henry Cohn

Microsoft Research Theory Group
Mentor: Eyal Lubetzky

Cambridge, MA
Summers 2010, 2011, 2013, 2014

Redmond, WA
Summer 2012

Papers

- 58. Dingding Dong, Nitya Mani, and Yufei Zhao Enumerating *k*-SAT functions, arXiv:2107.09233
- 57. David Conlon, Jacob Fox, Benny Sudakov, and Yufei Zhao, Which graphs can be counted in *C*₄-free graphs? arXiv:2106.03261
- 56. Jacob Fox and Yufei Zhao, Removal lemmas and approximate homomorphisms, arXiv:2104.11626
- 55. Aaron Berger and Yufei Zhao, *K*₄-intersecting families of graphs, arXiv:2103.12671
- 54. Ashwin Sah, Mehtaab Sawhney, Yufei Zhao, The cylindrical width of transitive sets, *Israel J. Math.*, to appear. arXiv:2101.11207
- 53. Ashwin Sah, Mehtaab Sawhney, Yufei Zhao,
 Paths of given length in tournaments, arXiv:2012.00262
- 52. Jonathan Tidor, Hung-Hsun Hans Yu, and Yufei Zhao, Joints of varieties, arXiv:2008.01610
- 51. Matthew Kwan, Lisa Sauermann, and Yufei Zhao, Extension complexity of low-dimensional polytopes, arXiv:2006.08836
- 50. Zilin Jiang, Jonathan Tidor, Yuan Yao, Shengtong Zhang, and Yufei Zhao, Spherical two-distance sets and eigenvalues of signed graphs, arXiv:2006.06633
- 49. Ashwin Sah, Mehtaab Sawhney, and Yufei Zhao, Cayley graphs without a bounded eigenbasis, Int. Math. Res. Not. IMRN, to appear. arXiv:2005.04502
- 48. 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

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47. Jacob Fox, Huy Tuan Pham, and Yufei Zhao,
Tower-type bounds for Roth's theorem with popular differences, arXiv:2004.13690

- 46. David Conlon, Jacob Fox, Benny Sudakov, and Yufei Zhao, The regularity method for graphs with few 4-cycles, *J. Lond. Math. Soc.*, to appear. arXiv:2004.10180
- 45. Ashwin Sah, Mehtaab Sawhney, and Yufei Zhao, Patterns without a popular difference, *Discrete Anal.*, 2021:8, 30 pp. arXiv:2004.07722
- 44. 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
- 43. Hung-Hsun Hans Yu and Yufei Zhao, Joints tightened, arXiv:1911.08605
- 42. Jonathan Tidor and Yufei Zhao, Testing linear-invariant properties, FOCS 2020. arXiv:1911.06793
- 41. Jacob Fox, Jonathan Tidor, and Yufei Zhao, Induced arithmetic removal: complexity 1 patterns over finite fields, Israel J. Math., to appear. arXiv:1911.03427
- 40. Jacob Fox, Huy Tuan Pham, and Yufei Zhao, Common and Sidorenko linear equations, Q. J. Math., to appear. arXiv:1910.06436
- 39. Yang Liu and Yufei Zhao,
 On the upper tail problem for random hypergraphs,
 Random Structures Algorithms 58 (2021), 179–220. arXiv:1910.02916
- 38. Zilin Jiang, Jonathan Tidor, Yuan Yao, Shengtong Zhang, and Yufei Zhao, Equiangular lines with a fixed angle, arXiv:1907.12466
- 37. Yufei Zhao and Yunkun Zhou, Impartial digraphs, Combinatorica 40 (2020), 875–896. arXiv:1906.10482
- 36. Ashwin Sah, Mehtaab Sawhney, David Stoner, and Yufei Zhao, Exponential improvements for superball packing upper bounds, *Adv. Math.* 365 (2020), 107056. arXiv:1904.11462
- 35. 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
- 34. Ashwin Sah, Mehtaab Sawhney, David Stoner, and Yufei Zhao, A reverse Sidorenko inequality, *Invent. Math.* 221 (2020), 665–711. arXiv:1809.09462
- 33. 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
- 32. Asaf Ferber, Vishesh Jain, and Yufei Zhao, On the number of Hadamard matrices via anti-concentration, *Combin. Probab. Comput.*, to appear. arXiv:1808.07222

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31. 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.

- 30. 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
- 29. 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
- 28. Yufei Zhao, Group representations that resist worst-case sampling. arXiv:1705.04675
- 27. Yufei Zhao, Extremal regular graphs: independent sets and graph homomorphisms, *Amer. Math. Monthly* 124 (2017), 827–843. arXiv:1610.09210
- 26. 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
- 25. 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
- 24. David Conlon and Yufei Zhao, Quasirandom Cayley graphs, Discrete Anal. 2017:6, 14 pp. arXiv:1603.03025
- 23. 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
- 22. László Miklós Lovász and Yufei Zhao, On derivatives of graphon parameters, *J. Combin. Theory Ser. A* 145 (2017), 364–368. arXiv:1505.07448
- 21. Yufei Zhao, On the lower tail variational problem for random graphs, *Combin. Probab. Comput.* 26 (2017), 301–320. arXiv:1502.00867
- 20. 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
- 19. David Conlon, Jacob Fox, and Yufei Zhao, The Green-Tao theorem: an exposition, EMS Surv. Math. Sci. 1 (2014), 249–282. arXiv:1403.2957
- 18. 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
- 17. 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
- 16. Yufei Zhao, An arithmetic transference proof of a relative Szemerédi theorem, *Math. Proc. Cambridge Philos. Soc.* 156 (2014), 255–261. arXiv:1307.4959

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- 15. 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
- 14. David Conlon, Jacob Fox, and Yufei Zhao,
 - A relative Szemerédi theorem,
 - Geom. Funct. Anal. 25 (2015), 733-762. arXiv:1305.5440
- 13. Yufei Zhao, Hypergraph limits: a regularity approach, *Random Structures Algorithms* 47 (2015), 205–226. arXiv:1302.1634
- 12. Henry Cohn and Yufei Zhao,
 - Sphere packing bounds via spherical codes,
 - Duke Math. J. 163 (2014), 1965-2002. arXiv:1212.5966
- 11. Henry Cohn and Yufei Zhao,
 - Universally optimal error-correcting codes,
 - IEEE Trans. Inform. Theory 60 (2014), 7442-7450. arXiv:1212.1913
- 10. Eyal Lubetzky and Yufei Zhao,
 - On replica symmetry of large deviations in random graphs, *Random Structures Algorithms* 47 (2015) 109–146. arXiv:1210.7013
- 9. 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
- 8. David Conlon, Jacob Fox, and Yufei Zhao,
 - Extremal results in sparse pseudorandom graphs,
 - Adv. Math. 256 (2014), 206-290. arXiv:1204.6645
- 7. Yufei Zhao, The bipartite swapping trick on graph homomorphisms, *SIAM J. Discrete Math.* **25** (2011), 660–680. arXiv:1104.3704
- 6. Yufei Zhao, Sets characterized by the number of missing sums and differences,
 - J. Number Theory 11 (2011), 2107–2134. arXiv:0911.2292
- 5. 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
- 4. Yufei Zhao, Counting MSTD sets in finite abelian groups,
 - J. Number Theory 130 (2010), 2308-2322. arXiv:0911.2288
- 3. Yufei Zhao, Constructing numerical semigroups of a given genus, *Semigroup Forum* 80 (2010), 242–254. arXiv:0910.2075
- $2. \ \ Yufei \ Zhao, \ Constructing \ MSTD \ sets \ using \ bidirectonal \ ballot \ sequences,$
 - J. Number Theory 130 (2010), 1212–1220. arXiv:0908.4442
- 1. Yufei Zhao, The number of independent sets in a regular graph, *Combin. Probab. Comput.* 19 (2010), 315–320. arXiv:0909.3354
- 0. Yufei Zhao, The coefficients of a truncated Fibonacci power series, *Fibonacci Quart.* 46/47 (2009), 53–55.

Invited Talks

2022 Workshop on Critical and Collective Effects in Graphs and Networks (CCEGN-V)

Cape Cod, MA Gniezno, Poland

Conference on Random Structures & Algorithms (RS&A): Plenary Speaker

Online

2021 National University of Singapore (NUS) Young Mathematician Lecture Series

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| | Canadian Discrete and Algorithmic Math Conference (CanaDAM): Plenary Lect | ure 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 Geometry | " 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 Le to COVID-19) | cture (Canceled due New York, NY |
| | Webinar in Additive Combinatorics | Online |
| | Stanford Online Combinatorics Seminar | Online |
| | Stanford Math Department Colloquium | Stanford, CA |
| | Oberwolfach workshop: Combinatorics Ob | erwolfach, Germany |
| 2019 | Shanghai Center for Mathematical Sciences (Fudan) Discrete Math. Seminar | Shanghai, China |
| | Conference on Graph Theory and its Applications: A Tribute to Prof. Fan Chung | g 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 Ob | erwolfach, Germany |
| | Rutgers Discrete Math Seminar | Piscataway, NJ |
| | Yale Combinatorics Seminar | New Haven, CT |
| | Stanford Combinatorics Seminar | Stanford, CA |
| 2018 | Clay Math Institute workshop: Recent Advances in Extremal Combinatorics | Oxford, UK |
| | ICM satellite workshop — Combinatorics: Extremal, Probabilistic and Additive | São Paulo, Brazil |
| | 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 |
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| | Northeastern U. Network Science Institute Talk | Boston, MA |
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| | 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 |
| | UCLA Combinatorics Seminar | Los Angeles, CA |
| 2017 | Harvard CMSA workshop: Additive Combinatorics | Cambridge, 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 |
| | 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, Germany |
| 2016 | Turing Institute workshop: Large-scale structures in random graphs | London, UK |
| | 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 | Oberwolfach, Germany |
| | Simons Symposium: Analysis of Boolean Functions | Krün, Germany |
| | British Mathematical Colloquium: Combinatorics Workshop | Bristol, UK |
| | Oxford Mathematical Institute North meets South Colloquium | Oxford, UK |
| | AMS-MAA Joint Mtgs: AMS Spec. Session on Pseudorandomness and Its A | Applications Seattle, WA |
| 2015 | London School of Economics Discrete Mathematics and Game Theory Sen | ninar 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 | heir 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 |

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| | 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 Sem | 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 |

Teaching

Graph Theory and Additive Combinatorics (graduate, MIT)

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

Probabilistic Methods in Combinatorics (graduate, MIT)

| Fall 2020 | 25 + 16 | Not rated due to COVID |
|-------------|---------|------------------------|
| Spring 2019 | 47 + 25 | 6.9 |

Combinatorial Analysis (undergraduate, MIT)

Additional teaching:

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Mathematical Problem Solving (Putnam Seminar), MIT undergrad first-year advising seminar, every Fall since 2017

Polynomial Method in Combinatorics, graduate-level, Oxford, 2016

Undergraduate tutorials in geometry, Oxford, 2016

Advising and mentorship

Current PhD students:

Aaron Berger

Ashwin Sah

Mehtaab Sawhney

Jonathan Tidor

Former PhD students:

Benjamin Gunby (Harvard PhD '21) → Rutgers 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–)

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

Mihir Singhal (2019)

Zachary Chroman (2019) → Cambridge Part III student

Carl Schildkraut (2020–)

Milan Haiman (2020-)

Anqi Li (2021–)

Dain Kim (2021-)

Postdoctoral researchers mentored:

Zilin Jiang (2018–2020) → Assistant Professor at Arizona State University

László Miklós Lovász (2018–2020) → working in industry

Service

Undergraduate first-year advising, Fall 2017—current

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

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

AMS-Simons Travel Grants Committee Member, 2021—2024

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

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Instructor at Canadian IMO Training Camps

Mentor at AwesomeMath Summer Program, Dallas

Trainer at US Math Olympiad Summer Program, Lincoln, Nebraska

Teacher at Spirit of Math Schools, Toronto