Sergey **Norin**

Professor and Peter Redpath Chair of Pure Mathematics
Department of Mathematics and Statistics, McGill University

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Professional Experience

McGill University, Montréal, QC

2026–present Professor

2025–present Peter Redpath Chair of Pure Mathematics

2016–2025 Associate Professor

2011–2016 Assistant Professor

2007–2011 **Princeton University**, Princeton, NJ
Instructor; Assistant Professor

2006–2007 **Georgia Institute of Technology**, Atlanta, GA
Visiting Assistant Professor

2005–2006 **D. E. Shaw & Co.**, New York, NY
Quantitative Analyst

2003–2005 **Georgia Institute of Technology**, Atlanta, GA
Research Assistant to Prof. Robin Thomas; Teaching Assistant

Education

2005 **Ph.D. in Mathematics**, Georgia Institute of Technology, Atlanta, GA
Algorithms, Combinatorics and Optimization (ACO) program
Thesis: *Matching structure and Pfaffian orientations of graphs*; advisor: Robin Thomas

2001 **M.S. in Mathematics** (with honors), St. Petersburg State University, St. Petersburg, Russia

Research Interests

Graph theory, combinatorics

Honors and Awards

2022 Invited speaker, International Congress of Mathematicians, Combinatorics section

2019 Robert Bartnik Visiting Fellowship, Monash University (A$20,000)

2006 Best Thesis Award, School of Mathematics, Georgia Institute of Technology

2004 Graduate Excellence Award, College of Sciences, Georgia Institute of Technology

1994–1996 International Mathematical Olympiad, Gold Medal (three times)

Funding

2022–2027 NSERC Grant, $31,000/year

2017–2022 NSERC Grant, $20,000/year

2012–2017 NSERC Grant, $26,000/year

2007–2011 NSF Grant DMS-0803214, US$103,315

Publications

2026

99. The dominating 4-colour theorem (with A. Girão, F. Illingworth, B. Mohar, R. Steiner, Y. Tamitegama, J. Tan, D. R. Wood and J. H. Yip). *Int. Math. Res. Not. IMRN*, to appear.
98. Small hitting sets for longest paths and cycles (with R. Steiner, S. Thomassé and P. Wollan). *Proc. Amer. Math. Soc.* **154** (2026), 2319–2335.
97. Strong parity edge-colorings of graphs (with P. Bradshaw and D. B. West). *European J. Combin.* **134** (2026), 104343.
96. Dense minors of graphs with independence number two (with P. Seymour). *J. Combin. Theory Ser. B* **176** (2026), 101–110.
95. Defective coloring of blowups (with R. Steiner). *Electron. J. Combin.* **33**(1) (2026), #P1.17.

2025

94. Limits of degeneracy for colouring graphs with forbidden minors (with J. Turcotte). *Trans. Amer. Math. Soc.* **378** (2025), 6425–6451.
93. Sparsity of 3-flow-critical graphs (with Z. Dvořák). *European J. Combin.* **128** (2025), 104174.
92. Twin-width of sparse random graphs (with K. Hendrey, R. Steiner and J. Turcotte). *Combin. Probab. Comput.* **34** (2025), 401–420.
91. Finding dense minors using average degree (with K. Hendrey, R. Steiner and J. Turcotte). *J. Graph Theory* **108** (2025), 205–223.
90. Typical structure of hereditary graph families. II. Exotic examples (with Y. Yuditsky). *Random Structures Algorithms* **66** (2025), e21272.
89. Typical structure of hereditary graph families. I. Apex-free families (with Y. Yuditsky). *Random Structures Algorithms* **66** (2025), e21271.
88. Asymptotic dimension of intersection graphs (with Z. Dvořák). *European J. Combin.* **123** (2025), 103631.

2024

87. On an induced version of Menger's theorem (with K. Hendrey, R. Steiner and J. Turcotte). *Electron. J. Combin.* **31**(4) (2024), #P4.28.
86. The burning number conjecture holds asymptotically (with J. Turcotte). *J. Combin. Theory Ser. B* **168** (2024), 208–235.
85. The inducibility of oriented stars (with P. Hu, J. Ma and H. Wu). *J. Combin. Theory Ser. B* **168** (2024), 11–46.
84. Typical structure of hereditary properties of binary matroids (with S. Grosser, H. Hatami and P. Nelson). *J. Combin. Theory Ser. B* **167** (2024), 283–302.
83. Three-dimensional graph products with unbounded stack-number (with D. Eppstein, R. Hickingbotham, L. Merker, M. T. Seweryn and D. R. Wood). *Discrete Comput. Geom.* **71** (2024), 1210–1237.
82. Weak diameter coloring of graphs on surfaces (with Z. Dvořák). *European J. Combin.* **121** (2024), 103845.
81. Cops and robbers on P_5-free graphs (with M. Chudnovsky, P. Seymour and J. Turcotte). *SIAM J. Discrete Math.* **38** (2024), 845–856.

2023

80. Recent progress towards Hadwiger's conjecture. In *Proc. Int. Congr. Math. 2022*, Vol. 6, EMS Press (2023), 4606–4620.
79. Breaking the degeneracy barrier for coloring graphs with no K_t minor (with L. Postle and Z.-X. Song). *Adv. Math.* **422** (2023), 109020.
78. Crossing numbers of complete bipartite graphs (with J. Balogh, B. Lidický, F. Pfender, G. Salazar and S. Spiro). *Procedia Comput. Sci.* **223** (2023), 78–87.
77. Every graph is eventually Turán-good (with N. Morrison, J. D. Nir, P. Rzążewski and A. Wesolek).

J. Combin. Theory Ser. B **162** (2023), 231–243.

76. On 2-cycles of graphs (with R. Thomas and H. van der Holst). *J. Combin. Theory Ser. B* **162** (2023), 184–222.
75. Connectivity and choosability of graphs with no K_t minor (with L. Postle). *J. Combin. Theory Ser. B* **158** (2023), 283–300.
74. The spectrum of triangle-free graphs (with J. Balogh, F. C. Clemen, B. Lidický and J. Volec). *SIAM J. Discrete Math.* **37** (2023), 1173–1179.
73. Clustered colouring of graph classes with bounded treedepth or pathwidth (with A. Scott and D. R. Wood). *Combin. Probab. Comput.* **32** (2023), 122–133.

2022

72. Torsion groups do not act on 2-dimensional CAT(0) complexes (with D. Osajda and P. Przytycki). *Duke Math. J.* **171** (2022), 1379–1415.
71. Testability and local certification of monotone properties in minor-closed classes (with L. Esperet). In *49th International Colloquium on Automata, Languages, and Programming (ICALP 2022)*, LIPIcs **229** (2022), 58:1–58:15.
70. Non-bipartite k-common graphs (with D. Král', J. A. Noel, J. Volec and F. Wei). *Combinatorica* **42** (2022), 87–114.
69. Counterexamples to a conjecture of Harris on Hall ratio (with A. Blumenthal, B. Lidický, R. R. Martin, F. Pfender and J. Volec). *SIAM J. Discrete Math.* **36** (2022), 1678–1686.
68. Extremal functions for sparse minors (with K. Hendrey and D. R. Wood). *Adv. Comb.* 2022:5, 43 pp.
67. A new upper bound on the chromatic number of graphs with no odd K_t minor (with Z.-X. Song). *Combinatorica* **42** (2022), 137–149.
66. Obstructions for partitioning into forests and outerplanar graphs (with R. Kim and S. Oum). *Discrete Appl. Math.* **312** (2022), 15–28.

2021

65. Descending the stable matching lattice: how many strategic agents are required to turn pessimality to optimality? (with N. Ndiaye and A. Vetta). In *Algorithmic Game Theory (SAGT 2021)*, Lecture Notes in Comput. Sci. **12885** (2021), 281–295.
64. Virtually fibering right-angled Coxeter groups (with K. Jankiewicz and D. T. Wise). *J. Inst. Math. Jussieu* **20** (2021), 957–987.
63. Asymptotic density of graphs excluding disconnected minors (with R. Kapadia and Y. Qian). *J. Combin. Theory Ser. B* **146** (2021), 151–175.
62. Sublinear separators in intersection graphs of convex shapes (with Z. Dvořák and R. McCarty). *SIAM J. Discrete Math.* **35** (2021), 1149–1164.
61. The smallest matroids with no large independent flat (with P. Nelson). *Electron. J. Combin.* **28**(1) (2021), #P1.31.
60. Bounding the number of cycles in a graph in terms of its degree sequence (with Z. Dvořák, N. Morrison, J. A. Noel and L. Postle). *European J. Combin.* **91** (2021), 103206.

2020

59. A lower bound on the average degree forcing a minor (with B. Reed, A. Thomason and D. R. Wood). *Electron. J. Combin.* **27**(2) (2020), #P2.4.

2019

58. Clustered colouring in minor-closed classes (with A. Scott, P. Seymour and D. R. Wood). *Combinatorica* **39** (2019), 1387–1412.
57. K_6 minors in 6-connected graphs of bounded tree-width (with K. Kawarabayashi, R. Thomas and P. Wollan). *J. Combin. Theory Ser. B* **136** (2019), 1–32.
56. A Turán theorem for extensions via an Erdős–Ko–Rado theorem for Lagrangians (with A. Bene Watts and L. Yepremyan). *Combinatorica* **39** (2019), 1149–1171.
55. On the boundary of the region defined by homomorphism densities (with H. Hatami). *J. Comb.* **10** (2019), 203–219.
54. A bound on the inducibility of cycles (with D. Král' and J. Volec). *J. Combin. Theory Ser. A* **161** (2019), 359–363.
53. A distribution on triples with maximum entropy marginal. *Forum Math. Sigma* **7** (2019), e46.

52. List coloring with requests (with Z. Dvořák and L. Postle). *J. Graph Theory* **92** (2019), 191–206.
51. Treewidth of graphs with balanced separations (with Z. Dvořák). *J. Combin. Theory Ser. B* **137** (2019), 137–144.

2018

50. Treewidth of grid subsets (with E. Berger and Z. Dvořák). *Combinatorica* **38** (2018), 1337–1352.
49. Turán numbers of extensions (with L. Yepremyan). *J. Combin. Theory Ser. A* **155** (2018), 476–492.
48. K_6 minors in large 6-connected graphs (with K. Kawarabayashi, R. Thomas and P. Wollan). *J. Combin. Theory Ser. B* **129** (2018), 158–203.
47. Orthogonal tree decompositions of graphs (with V. Dujmović, G. Joret, P. Morin and D. R. Wood). *SIAM J. Discrete Math.* **32** (2018), 839–863; corrigenda, *ibid.* **32** (2018), 3003–3004, and **38** (2024), 3220–3221.
46. Distribution of coefficients of rank polynomials for random sparse graphs (with D. Jakobson, C. MacRury and L. Turner). *Electron. J. Combin.* **25**(4) (2018), #P4.50.

2017

45. Counting flags in triangle-free digraphs (with J. Hladký and D. Král'). *Combinatorica* **37** (2017), 49–76.
44. The extremal function for disconnected minors (with E. Csóka, I. Lo, H. Wu and L. Yepremyan). *J. Combin. Theory Ser. B* **126** (2017), 162–174.
43. Turán number of generalized triangles (with L. Yepremyan). *J. Combin. Theory Ser. A* **146** (2017), 312–343.

2016

42. Erdős–Szekeres without induction (with Y. Yuditsky). *Discrete Comput. Geom.* **55** (2016), 963–971.
41. Non-planar extensions of subdivisions of planar graphs (with R. Thomas). *J. Combin. Theory Ser. B* **121** (2016), 326–366.
40. Strongly sublinear separators and polynomial expansion (with Z. Dvořák). *SIAM J. Discrete Math.* **30** (2016), 1095–1101.
39. Flag algebras and the stable coefficients of the Jones polynomial (with S. Garoufalidis and T. Vuong). *European J. Combin.* **51** (2016), 165–189.

2015

38. Sparse halves in dense triangle-free graphs (with L. Yepremyan). *J. Combin. Theory Ser. B* **115** (2015), 1–25.
37. New tools and results in graph minor structure theory. In *Surveys in Combinatorics 2015*, London Math. Soc. Lecture Note Ser. **424**, Cambridge Univ. Press (2015), 221–260.
36. Large supports are required for well-supported Nash equilibria (with Y. Anbalagan, H. Huang, S. Lovett, A. Vetta and H. Wu). In *APPROX/RANDOM 2015*, LIPIcs **40** (2015), 78–84.
35. Excluding a substar and an antisubstar (with M. Chudnovsky, B. Reed and P. Seymour). *SIAM J. Discrete Math.* **29** (2015), 297–308.

2014

34. The inducibility of blow-up graphs (with H. Hatami and J. Hirst). *J. Combin. Theory Ser. B* **109** (2014), 196–212.
33. A near-optimal mechanism for impartial selection (with N. Bousquet and A. Vetta). In *Web and Internet Economics (WINE 2014)*, Lecture Notes in Comput. Sci. **8877** (2014), 133–146.

2013

32. Rank of divisors on tropical curves (with J. Hladký and D. Král'). *J. Combin. Theory Ser. A* **120** (2013), 1521–1538.
31. On the number of pentagons in triangle-free graphs (with H. Hatami, J. Hladký, D. Král' and A. Razborov). *J. Combin. Theory Ser. A* **120** (2013), 722–732.
30. A counterexample to a conjecture of Schwartz (with F. Brandt, M. Chudnovsky, I. Kim, G. Liu, A. Scott, P. Seymour and S. Thomassé). *Soc. Choice Welf.* **40** (2013), 739–743.
29. The entropy of random-free graphons and properties (with H. Hatami). *Combin. Probab. Comput.* **22** (2013), 517–526.
28. Polylogarithmic supports are required for approximate well-supported Nash equilibria below 2/3 (with Y. Anbalagan, R. Savani and A. Vetta). In *Web and Internet Economics (WINE 2013)*, Lecture Notes in Comput. Sci. **8289** (2013), 15–23.
27. Holographic algorithms without matchgates (with J. M. Landsberg and J. Morton). *Linear Algebra Appl.* **438** (2013), 782–795.

2012

26. Non-three-colorable common graphs exist (with H. Hatami, J. Hladký, D. Král' and A. Razborov). *Combin. Probab. Comput.* **21** (2012), 734–742.

2011

25. Undecidability of linear inequalities in graph homomorphism densities (with H. Hatami). *J. Amer. Math.*

Soc. **24** (2011), 547–565.

24. Exponentially many perfect matchings in cubic graphs (with L. Esperet, F. Kardoš, A. King and D. Král'). *Adv. Math.* **227** (2011), 1646–1664.
23. Turán graphs and the number of colorings. *SIAM J. Discrete Math.* **25** (2011), 260–266.
22. Jacobians of nearly complete and threshold graphs (with P. Whalen). *European J. Combin.* **32** (2011), 1368–1376.
21. Circular consecutive choosability of k-choosable graphs (with D. Liu, Z. Pan and X. Zhu). *J. Graph Theory* **67** (2011), 178–197.

2010

20. Small graph classes and bounded expansion (with Z. Dvořák). *J. Combin. Theory Ser. B* **100** (2010), 171–175.
19. Markov bases of binary graph models of K_4-minor free graphs (with D. Král' and O. Pangrác). *J. Combin. Theory Ser. A* **117** (2010), 759–765.
18. Voting in agreeable societies (with D. E. Berg, F. E. Su, R. Thomas and P. Wollan). *Amer. Math. Monthly* **117** (2010), 27–39.

2009

17. Harmonic morphisms and hyperelliptic graphs (with M. Baker). *Int. Math. Res. Not. IMRN* 2009, no. 15, 2914–2955.
16. Drawing 4-Pfaffian graphs on the torus. *Combinatorica* **29** (2009), 109–119.

2008

15. Minimally non-Pfaffian graphs (with R. Thomas). *J. Combin. Theory Ser. B* **98** (2008), 1038–1055.
14. Pfaffian labelings and signs of edge-colorings (with R. Thomas). *Combinatorica* **28** (2008), 99–111.
13. Pfaffian graphs, T-joins and crossing numbers. *Combinatorica* **28** (2008), 89–98.
12. Circular choosability via combinatorial Nullstellensatz (with T.-L. Wong and X. Zhu). *J. Graph Theory* **59** (2008), 190–204.
11. Graphs with full rank 3-color matrix and few 3-colorings (with J.-S. Sereni). *J. Combin. Theory Ser. B* **98** (2008), 1115–1116.
10. Circular degree choosability (with X. Zhu). *Electron. J. Combin.* **15**(1) (2008), #R100.
9. On two questions about circular choosability. *J. Graph Theory* **58** (2008), 261–269.

2007

8. Riemann–Roch and Abel–Jacobi theory on a finite graph (with M. Baker). *Adv. Math.* **215** (2007), 766–788.
7. Generating bricks (with R. Thomas). *J. Combin. Theory Ser. B* **97** (2007), 769–817.

2006

6. Minimal bricks (with R. Thomas). *J. Combin. Theory Ser. B* **96** (2006), 505–513.
5. Unions of perfect matchings in cubic graphs (with T. Kaiser and D. Král'). In *Topics in Discrete Mathematics* (M. Klazar, J. Kratochvíl, M. Loebl, J. Matoušek, R. Thomas and P. Valtr, eds.), Algorithms Combin. **26**, Springer (2006), 225–230.
4. Proper minor-closed families are small (with P. Seymour, R. Thomas and P. Wollan). *J. Combin. Theory Ser. B* **96** (2006), 754–757.
3. The circular chromatic index of flower snarks (with M. Ghebleh, D. Král' and R. Thomas). *Electron. J. Combin.* **13**(1) (2006), #N20.

2004

2. A new proof of a characterisation of Pfaffian bipartite graphs (with C. H. C. Little and K. L. Teo). *J. Combin. Theory Ser. B* **91** (2004), 123–126.

2003

1. A polynomial lower bound for the size of a k-min-wise independent set of permutations. *J. Math. Sci. (N.Y.)* **118** (2003), 4994–5000.

Preprints

All preprints are available on arXiv.

P14. A proof of the linear Hadwiger conjecture (with R. Steiner). arXiv:2610.05291.
P13. Every graph with no $K_7^{=}$ minor is 6-colorable (with Z. Dvořák and N. Rahman). arXiv:2609.17760.
P12. Nerve-type and invariance theorems for asymptotic dimension (with C.-H. Liu). arXiv:2607.24146.
P11. Disproof of the tree product conjecture via the Heisenberg group (with F. Illingworth and R. Steiner). arXiv:2607.03041.

P10. Nowhere-zero flow reconfiguration (with L. Esperet, K. Hendrey, A. Lagoutte, M. Marseloo and R. Steiner). arXiv:2512.17342.

P9. Every graph with no K_7^v-minor is 6-colorable (with A. Totschnig). arXiv:2507.03244.

P8. 3-colouring planar graphs (with V. Dujmović, P. Morin and D. R. Wood). arXiv:2507.03163.

P7. Product structure and tree-decompositions (with C.-H. Liu and D. R. Wood). arXiv:2410.20333.

P6. Optimizing the CGMS upper bound on Ramsey numbers (with P. Gupta, N. Ndiaye and L. Wei). arXiv:2407.19026.

P5. On the density of matroids omitting a complete-graphic minor (with P. Nelson and F. Rivera Omana). arXiv:2306.15061.

P4. Densities of minor-closed graph classes are rational (with R. Kapadia). arXiv:2009.13482.

P3. Islands in minor-closed classes. I. Bounded treewidth and separators (with Z. Dvořák). arXiv:1710.02727.

P2. Asymptotics of Ramsey numbers of double stars (with Y. R. Sun and Y. Zhao). arXiv:1605.03612.

P1. Triangle-independent sets vs. cuts (with Y. R. Sun). arXiv:1602.04370.

Invited Conference Presentations

2025	Jul	International Congress of Basic Science, Beijing **PLENARY**
	Mar	Bellairs Workshop on Structural Graph Theory, Barbados
2024	Oct	BIRS Workshop on Graph Coloring and Structure, Banff
2023	Jun	Montreal Graph Theory Workshop
	Jan	Oberwolfach Combinatorics Workshop, Germany
2022	Jul	International Congress of Mathematicians, Combinatorics section, online
	Jun	BIRS Workshop on Cross-Community Collaboration in Combinatorics, Banff
	Mar	Bellairs Workshop on Structural Graph Theory, Barbados
2021	Oct	BIRS Workshop on New Perspectives in Colouring and Structure, online
	Sep	European Conference on Combinatorics, Graph Theory and Applications, online **PLENARY**
	Jul	Minisymposium on Graph Structure, SIAM Conference on Discrete Mathematics, online
	Jun	8th Canadian Discrete and Algorithmic Mathematics Conference **PLENARY**
	Jun	CMS 75th+1 Anniversary Summer Meeting, online
2018	Jun	SIAM Conference on Discrete Mathematics, Denver
2017	Aug	BIRS Workshop on Geometric and Structural Graph Theory, Banff
	Jul	SiGMa: Structure in Graphs and Matroids, Waterloo **PLENARY**
2016	Sep	Southern Italian Workshop on Algorithms and Graphs, Polignano **PLENARY**
	Jun	SIAM Conference on Discrete Mathematics, two minisymposium talks, Atlanta
	Mar	Bellairs Workshop on Structural Graph Theory, Barbados
2015	Aug	BIRS Workshop on Methods and Challenges in Extremal and Probabilistic Combinatorics, Banff
	Jun	25th British Combinatorial Conference, Warwick **PLENARY**
2014	Dec	38th Australasian Combinatorics Conference, Wellington, New Zealand **PLENARY**
	Jun	SIAM Minisymposia on Extremal Combinatorics and Structural Graph Theory, Minneapolis
	Apr	AIM Workshop on Exact Crossing Numbers, Palo Alto
	Mar	Bellairs Workshop on Structural Graph Theory, Barbados
	Jan	Oberwolfach Combinatorics Workshop, Germany
2013	Jun	Minisymposium on Extremal Combinatorics, CanaDAM, St. John's
	Jun	Extremal Combinatorics at Illinois, Urbana-Champaign
	Apr	Atlanta Lecture Series in Combinatorics and Graph Theory IX

	Jan	Oberwolfach Conference on Graph Theory, Germany
2012	Aug	21st International Symposium on Mathematical Programming, Berlin
	Jun	SIAM Minisymposium on Extremal Graph Theory, Halifax
	Jun	Matching, Matroids, and Extensions: a conference in honour of Bill Cunningham's 65th birthday, Waterloo
	Jun	Graph Theory and Combinatorial Algorithms Symposium, Beijing
	May	Bellairs Workshop in Number Theory, Barbados
2010	Sep	BIRS Workshop on New Trends in Structural Graph Theory, Banff
	Aug	Workshop on Graph Coloring, Haifa
	Aug	Workshop on Graphs and Matroids, Maastricht
	Jun	SIAM Conference on Discrete Mathematics, three minisymposium talks, Austin
2009	Oct	Special Session on Graph Theory, AMS Meeting, Boca Raton
	Jun	Special Session on Graph Theory, CanaDAM, Montréal
	May	DIMACS Graph Theory Workshop, Princeton
	Jan	Workshop on Graph Theory, Kaohsiung
2008	Jul	Midsummer Combinatorial Workshop, Prague
	Jun	SIAM Minisymposium on Graph Coloring and Partitioning, San Diego
	May	Princeton–Oxford Graph Theory Workshop, Oxford
	Mar	Special Session on Structural Graph Theory, AMS Meeting, Baton Rouge
2007	Jun	6th Slovenian International Conference on Graph Theory, Bled
	Jan	Oberwolfach Conference on Graph Theory, Germany
2005	Jan	Oberwolfach Conference on Graph Theory, Germany
2004	Nov	Combinatorial and Computational Aspects of Optimization, Topology and Algebra, San Miguel de Allende
	Oct	Special Session on Graph Theory and Matroid Theory, AMS Meeting, Nashville
2003	Dec	Advances in Graph and Matroid Theory, Columbus

Seminar Presentations

2025	Aug	Shandong University, Mathematics Department
	Jul	Yonsei Discrete Analysis
	Jul	Discrete Mathematics, Institute for Basic Science, Daejeon
2024	Nov	Oxford Discrete Mathematics and Probability
	Feb	McGill Geometric Group Theory
2022	Apr	Jagiellonian Theoretical Computer Science
2020	Dec	Waterloo Graphs and Matroids
	Oct	Princeton Discrete Mathematics
	May	Warwick Combinatorics
2019	Mar	Monash Combinatorics
	Jan	Shanghai Center for Mathematical Sciences
2018	Nov	Waterloo Tutte Distinguished Lecture
	Feb	University of Illinois Urbana-Champaign, Mathematics Department Colloquium
2015	Feb	Carnegie Mellon ACO
2014	Mar	Georgia Tech Combinatorics

2013	Mar	Georgia Tech
2011	Oct	CRM–ISM Colloquium
	Mar	Waterloo Tutte
	Feb	Rutgers Discrete Mathematics
	Jan	Georgia Tech ACO
2010	Oct	McGill Discrete Mathematics
	Oct	Columbia Discrete Mathematics
	Sep	Princeton Discrete Mathematics
	Jan	Georgia Tech Graph Theory
2009	Oct	Columbia Discrete Mathematics
	Sep	Princeton Discrete Mathematics
	Jul	TU Munich
	Mar	Columbia Discrete Mathematics
	Mar	Georgia Tech Graph Theory
	Feb	University of Central Florida, Mathematics Department Colloquium
	Jan	KAIST Discrete Mathematics
2008	Aug	TU Berlin Discrete Differential Geometry
	Aug	Georgia Tech Graph Theory
2007	Sep	Princeton Discrete Mathematics
	Sep	Columbia Discrete Mathematics
	Apr	Princeton Discrete Mathematics
	Apr	CWI, Amsterdam
	Apr	Georgia Tech Graph Theory
	Mar	National Sun Yat-sen University, series of three talks
	Feb	Richard P. Stanley Seminar in Combinatorics
	Jan	Waterloo
2006	Sep	Georgia Tech Graph Theory
2005	Feb	Georgia Tech Combinatorics
2004	Sep	Princeton Discrete Mathematics
	Jan	Georgia Tech Graph Theory
2003	Apr	Georgia Tech Combinatorics

Student Supervision

MCGILL UNIVERSITY — CURRENT

2026–present **Hussin Suleiman**, MSc

2025–present **Neil Rahman**, MSc; co-supervised with Adrian Vetta

MCGILL UNIVERSITY — FORMER

2021–2025 **Ndiamé Ndiaye**, PhD (MSc 2019–2021); co-supervised with Adrian Vetta
→ Postdoctoral researcher, AGATE Center, Charles University, Prague

2024–2025 **Agnes Totschnig**, MSc; co-supervised with Adrian Vetta
→ PhD student, MIT

2021–2024 **Jérémie Turcotte**, PhD

→ Machine Learning Research Scientist, Simmunome Inc.

2019–2021 **Stefan Grosser**, MSc; co-supervised with Hamed Hatami
→ Postdoctoral researcher, University of Oxford

2019–2020 **Youri Tamitegama**, MSc; co-supervised with Michael Lipnowski
→ PhD student, University of Oxford

2016–2018 **Lise Turner**, MSc; co-supervised with Dmitry Jakobson
→ PhD student, University of Waterloo

2012–2018 **Yelena Yuditsky**, PhD; co-supervised with Bruce Reed
→ Lecturer, School of Computing, University of Leeds

2015–2016 **Yue Ru Sun**, MSc
→ Google Montréal

2012–2016 **Liana Yepremyan**, PhD
→ Assistant Professor, Emory University

PRIOR TO MCGILL

2011 **Brian Edwards**, Senior Thesis, Princeton University

2010 **Stephen Nei**, Senior Thesis, Princeton University

2009 **Suneil Vallabh**, Senior Thesis, Princeton University

2008 **Gregory Ugwi**, Senior Thesis, Princeton University

2008 **Peter Whalen**, Senior Thesis, Princeton University

2007 **Yoko Watanabe**, Master's Thesis, Georgia Institute of Technology