

Jonathan A. Noel

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Current Position

University of Victoria
Assistant Professor

Victoria, Canada
Started on July 1, 2020

Previous Academic Employment

University of Warwick
Leverhulme Early Career Fellow
Warwick Zeeman Lecturer (Fixed-Term Postdoctoral Position)

Coventry, UK
2018–2020

University of Warwick
Research Fellow (Postdoc). Adviser: Daniel Král'

Coventry, UK
2017–2018

ETH Zurich
Postdoctoral Researcher. Adviser: Benny Sudakov

Zurich, Switzerland
2016–2017

Education

University of Oxford
DPhil (PhD) in Mathematics. Adviser: Alex Scott
Thesis: "Extremal Combinatorics, Graph Limits and Computational Complexity"

Oxford, UK
2013–2016

McGill University
Master of Science in Mathematics. Adviser: Bruce Reed
Thesis: "Choosability of Graphs with Bounded Order: Ohba's Conjecture and Beyond"

Montreal, Canada
2011–2013

Thompson Rivers University
Bachelor of Science in Mathematics. Honours Adviser: Robb Fry
Honour's Thesis: "The Invariant Subspace Problem"

Kamloops, Canada
2006–2011

Research Interests

Probabilistic and extremal combinatorics, combinatorial limits, quasirandomness, bootstrap percolation, graph colouring.

Selected Scholarships and Fellowships

Leverhulme Early Career Fellowship (2018): 50% of total salary costs and £6,000 in research funding per year for 3 years.

Clarendon Fund Scholarship (2013): Full payment of tuition fees to study for a DPhil at the University of Oxford and £13,726 per year for 3 years.

NSERC Canada Graduate Scholarship, Doctoral Level (2013): \$35,000 CAD per year for 3 years.

Publications

See my webpage.

Invited and Contributed Talks

Invited conference session talks

1. Brazilian Mathematics Colloquium. Rio de Janeiro, Brazil. July, 2019.
2. Canadian Discrete and Algorithmic Mathematics Conference (CanaDAM). Vancouver, Canada. May 2019.
3. SIAM Conference on Discrete Mathematics. Denver, USA. June 2018.
4. SIAM Conference on Discrete Mathematics. Atlanta, USA. June 2016.
5. SIAM Conference on Discrete Mathematics. Minneapolis, USA. June 2014.
6. Canadian Discrete and Algorithmic Mathematics Conference (CanaDAM). St. John's, Canada. June 2013.

Invited seminar talks

7. SCMS Combinatorics Seminar. Shanghai Center for Mathematical Sciences (Online). March, 2021.
8. Extremal and Probabilistic Combinatorics Webinar. Online. September 2020.

9. Masaryk University. Brno, Czech Republic. April 2019.
10. University of Birmingham. Birmingham, UK. March 2019.
11. Birkbeck University of London. London, UK. March 2019.
12. University of Warwick. Coventry, UK. January 2019.
13. Queen Mary University of London. London, UK. October 2018.
14. McGill University. Montreal, Canada. April 2018.
15. University of Bristol. Bristol, UK. February 2018.
16. Korea Advanced Institute of Science and Technology (KAIST). Seoul, South Korea. November 2017.
17. Czech Academy of Sciences. Prague, Czech Republic. September 2017.
18. University of Birmingham. Birmingham, UK. March 2017.
19. Paul Sabatier University. Toulouse, France. February 2017.
20. Thompson Rivers University. Kamloops, Canada. January 2017.
21. ETH Zurich. Zurich, Switzerland. November 2016.
22. University of Birmingham. Birmingham, UK. June 2016.
23. McGill University. Montreal, Canada. March 2016.
24. Charles University. Prague, Czech Republic. September 2015.
25. University of West Bohemia. Pilsen, Czech Republic. September 2015.
26. University of Warwick. Coventry, UK. June 2014.
27. Thompson Rivers University. Kamloops, Canada. September 2013.
28. Charles University. Prague, Czech Republic. July 2013.
29. Simon Fraser University. Burnaby, Canada. January 2013.
30. Zhejiang Normal University. Jinhua, China. December 2012.
31. South China Normal University. Guangzhou, China. December 2012.
32. Kyoto University. Kyoto, Japan. November 2012.
33. Keio University. Yokohama, Japan. November 2012.
34. National Institute of Pure and Applied Mathematics (IMPA). Rio de Janeiro, Brazil. April 2012.

Contributed conference talks

35. International Workshop on Combinatorial Reconfiguration (CoRe). Aussois, France. May 2019.
36. Eurocomb. Vienna, Austria. August 2017.
37. Random Structures and Algorithms. Gniezno, Poland. August 2017.
38. Structure in Graphs and Matroids. Waterloo, Canada. July 2017.
39. Summit:240. Budapest, Hungary. July 2014.
40. Seventh Czech-Slovak International Symposium on Graph Theory, Combinatorics, Algorithms and Applications. Košice, Slovakia. July 2013.
41. Thailand-Japan Joint Conference on Computational Geometry and Graphs (TJJCCGG). Bangkok, Thailand. December 2012.

Teaching

University of Victoria

Lecturer: Math 122 Logic and Foundations	First Term 2021 (2 sections)
Lecturer: Math 222 Discrete and Combinatorial Mathematics	First Term 2021
Lecturer: Math 222 Discrete and Combinatorial Mathematics	Second Term 2021
Lecturer: Math 492/529 Extremal Combinatorics	Second Term 2021

University of Warwick

Lecturer: MA9010 Fundamental Tools	Induction Course 2018, 2019
Lecturer: MA252 Combinatorial Optimisation	Spring Term 2019

ETH Zurich

Course Organiser: Analysis I/II	Autumn Semester 2016 and Spring Semester 2017
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University of Oxford

Class Tutor: Combinatorics	Michaelmas Term 2014, 2015
Class Tutor: Graph Theory	Hilary Term 2015
Teaching Assistant: Graph Theory	Hilary Term 2014
Teaching Assistant: Combinatorics	Michaelmas Term 2013

Thompson Rivers University

Mathematics Help Center	Fall Semester 2009, 2010 and Winter Semester 2010, 2011
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Mentoring

University of Victoria

Jae-baek Lee. (co-supervised with Gary MacGillivray) PhD Student.	Jan 2021–present
Abel Romer. (co-supervised with Peter Dukes) Master's Topic: Extremal constructions in bootstrap percolation.	Sept 2020–present

University of Warwick

Adam Finchett. 4th Year Bachelor Project: "Graph Limits and Norms."	2019–2020
Rachel Hardgrave. 3rd Year Bachelor Project: "Topics in Graph Colouring."	2019–2020
Matt Pike. 4th Year Bachelor Project: "Problems in Bootstrap Percolation."	2018–2019
Sophia Werner. 3rd Year Bachelor Project: "Semidefinite Programming."	2018–2019
Joe Wall. Summer Project: "Saturation Problems in Extremal Combinatorics."	Summer 2018

ETH Zurich

Vincent Pfenninger. (co-supervised with Benny Sudakov) Master's Thesis: "Graph Bootstrap Processes in Complete Bipartite Graphs."	Spring 2017
Stefan Lochau. (co-supervised with Benny Sudakov) Bachelor Thesis: "Entropy and Linear Programming Methods for Counting Matchings and Independent Sets in Graphs."	Autumn 2016

Academic Service

Journals refereed for

1. Annales de l'Institut Henri Poincaré (B) Probabilités et Statistiques
2. Combinatorica
3. Combinatorics, Probability and Computing
4. Discrete Applied Mathematics
5. Discrete Mathematics
6. Electronic Journal of Combinatorics
7. European Journal of Combinatorics
8. Journal of Combinatorial Theory, Series B
9. Journal of Graph Theory
10. Proceedings of the London Mathematical Society

11. Random Structures & Algorithms
12. SIAM Journal on Discrete Mathematics

Conferences reviewed for

13. 2020 Symposium on Theoretical Aspects of Computer Science (STACS 2020)
14. 2019 European Conference on Combinatorics, Graph Theory and Applications (EUROCOMB 2019)
15. 2019 ACM-SIAM Symposium on Discrete Algorithms (SODA19)

Research grant proposals reviewed for

16. National Science Center of Poland

Organisation and Committee Participation

Program committees

1. 2022 ACM-SIAM Symposium on Discrete Algorithms (SODA22).
2. 2019 Latin and American Algorithms, Graphs and Optimization Symposium (LAGOS).

Seminar, minisymposium and workshop organisation

3. UVic Discrete Math Seminar (co-organized with the rest of the UVic Discrete Math Group).
4. Co-organized a talk (with Natasha Morrison) in the “Round the World Relay in Combinatorics.” June 2021.
5. DIMAP Seminar, University of Warwick (co-organized with Ramanujan Sridharan). 2018–2020.
6. Minisymposium on Bootstrap Percolation. Canadian Discrete and Algorithmic Mathematics Conference (CanaDAM). (co-organized with Natasha Morrison). Vancouver, Canada. May 2019.
7. “Young Researchers in Combinatorics Workshop” at the International Centre for Mathematical Sciences (ICMS). (co-organized with Shagnik Das, Carla Groenland and Yanitsa Pehova). To be held in 2022. Confirmed funding: £24,800.