

Name Penny Haxell

Affiliation Department of Combinatorics and Optimization,
University of Waterloo

University of Waterloo, Waterloo ON, Canada N2L 3G1



Education

1988 University of Waterloo, Bachelor of Math with Honours

1993 University of Cambridge, PhD

Positions held

1993-1998 Assistant Professor, University of Waterloo

1998-2004 Associate Professor, University of Waterloo

2004-present Professor, University of Waterloo

Awards & Honours

1993 NSERC Women's Award

2001 Ontario Premier's Research Excellence Award

2006 Krieger--Nelson Prize of the Canadian Mathematical Society

2011 Friedrich Wilhelm Bessel Award of the Humboldt Foundation

2014 Mathematics Faculty Award for Distinction in Teaching

Current editorial boards

2006-present, editorial board member, *Journal of Combinatorial Theory B*

2008-present, editorial board member, *Random Structures and Algorithms*

2009--present, editorial board member, *Journal of Combinatorics*

2013--present, editorial board member, *Electronic Journal of Combinatorics*

2018--present, editorial board member, *Journal of Graph Theory*

Selected committee work

2012-2014 Member of scientific review panel for AARMS (Atlantic Association for Research in the Mathematical Sciences)

2014-2015 Co-organiser for special year at IMA Minneapolis on Discrete Structures: Analysis and Applications, Sept 2014-May 2015.

2009-2019 Main organiser or co-organiser for conferences:
Watermelon 2009, Sparse Pseudorandom Structures (BIRS 2010), Hypergraph Turan Problem (MFO Oberwolfach miniworkshop 2012), New Trends and Directions in Combinatorics (BIRS 2012), Methods and Challenges in Extremal and Probabilistic Combinatorics (BIRS 2015), Workshop on Probabilistic and Extremal Combinatorics (BIRS 2019)

Five selected (recent) publications

1. Haxell, P.E., Narins, L., Szabo, T., *Extremal hypergraphs for Ryser's Conjecture, Journal of Combinatorial Theory A, to appear*
2. Haxell, P.E., Narins, L., *Stability for matchings in tripartite 3-graphs, Combinatorics, Probability and Computing (2018) (<https://doi.org/10.1017/S0963548318000147>)*
3. Alamdari, S., Angelini, P., Barrera-Cruz, F., Chan, T., Da Lozzo, G., Di Battista, G., Frati, F., Haxell, P.,

Lubiw, A., Patrignani, M., Roselli, V., Singla, S., Wilkinson, B., How to morph planar graph drawings, SIAM Journal on Computing 46 (2017), 824–852

4. *Haxell, P.E., Independent transversals and hypergraph matchings - an elementary approach, in Recent Trends in Combinatorics, IMA Volumes on Mathematics and its Applications 159 (Beveridge, A., Griggs, J., Hogben, L., Musiker, G., Tetali, P. eds.), Springer 2016*
5. *Haxell, P., Kierstead, H., Edge colouring multigraphs without small dense subsets, Discrete Mathematics 338 (2015), 2502--2506*