

# Peter Nelson

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## Basic Information

Born on January 2, 1986.

Citizen of New Zealand

## Employment

Postdoctoral Fellow, School of MSOR, Victoria University of Wellington, New Zealand.

## Education

B.Sc (hons) Mathematics with First Class Honours, University of Auckland, 2007.

Ph.D, University of Waterloo, Department of Combinatorics and Optimization, 2012.

## Awards

Award for Outstanding Achievement in Graduate Studies, University of Waterloo, 2012.

Fulbright New Zealand Travel Award, 2012.

## Experience

### *Teaching*

Tutor and Marker, University of Auckland, 2005-2007,

Teaching Assistant and Tutorial Instructor, University of Waterloo, 2007-2011,

Teaching Fellow, Victoria University of Wellington, 2012,

Postdoctoral Fellow, Victoria University of Wellington, 2012-.

### *Invited Talks*

Siam Conference on Discrete Mathematics 2010,

Maastricht Workshop on Graphs and Matroids, 2010,

Tutte Seminar, University of Waterloo, 2010,

Joint Mathematics Meetings, 2011,

Vacquerie Matroid Workshop, 2011,  
Matroid Seminar, University of Waterloo, 2011,  
Matroid Seminar, Victoria University of Wellington, 2011,  
Maastricht Workshop on Graphs and Matroids, 2012.

### *Journal Articles*

*Sequential automatic algebras*, CiE (2008), 84-93. With Michael Brough and Bakhadayr Khoussainov.  
*The number of points in a matroid with no  $n$ -point line as a minor*. JCTb 100 (2010), 625-630. With Jim Geelen.  
*Growth rate functions of dense classes of representable matroids*. submitted.  
*Projective geometries in exponentially dense matroids I*. in preparation. With Jim Geelen.  
*Projective geometries in exponentially dense matroids II*. in preparation.  
*On minor-closed classes of matroids with exponential growth rate*, accepted in Adv. Appl. Math. With Jim Geelen.  
*Exponentially dense matroids*, Ph.D thesis, University of Waterloo, 2011.  
*An analogue of the Erdős-Stone Theorem for finite geometries*, submitted. With Jim Geelen.

### *Other*

Graduate Student Representative, Department of Combinatorics and Optimization, University of Waterloo 2011,  
Grade 7 classical piano, Trinity College London,  
Deputy Leader and Team Trainer, New Zealand Mathematical Olympiad Program 2012.