

# Nicholas R. Beaton

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EMPLOYMENT	<p><b>The University of Melbourne</b>, Parkville, Victoria, Australia School of Mathematics and Statistics <i>ARC DECRA Research Fellow</i></p> <p><b>The University of Saskatchewan</b>, Saskatoon, Saskatchewan, Canada Department of Mathematics and Statistics <i>PIMS Postdoctoral Fellow</i></p> <p><b>The University of Melbourne</b>, Parkville, VIC, Australia ARC Centre of Excellence for Mathematics and Statistics of Complex Systems (MASCOS) Department of Mathematics and Statistics <i>Research Assistant and Casual Lecturer</i></p> <p><b>Laboratoire d'Informatique de Paris Nord (LIPN)</b> Institut Galilée Université Paris-Nord Villetaneuse, France <i>Postdoctoral Researcher (ANR Project MAGNUM)</i></p>	<p><b>January 2017 – present</b></p> <p><b>December 2014 – December 2016</b></p> <p><b>January – December 2014</b></p> <p><b>November 2012 – October 2013</b></p>
EDUCATION	<p><b>The University of Melbourne</b>, Parkville, VIC, Australia <i>Doctor of Philosophy</i></p> <ul style="list-style-type: none"><li>• Thesis topic: Combinatorics of Lattice Paths and Polygons</li><li>• Advisor: Prof. Anthony J. Guttmann</li></ul> <p><b>The University of Queensland</b>, St. Lucia, QLD, Australia <i>BSc (Hons) – Mathematics</i></p> <ul style="list-style-type: none"><li>• University Medal and Graduate of the Year (2008)</li></ul>	<p><b>2009 – 2012</b></p> <p><b>2005 - 2008</b></p>
TEACHING	<p><b>The University of Melbourne</b>, Parkville, VIC, Australia</p> <p><i>MAST10007 Linear Algebra</i></p> <p><i>MAST30028 Numerical and Symbolic Mathematics</i></p> <p><i>MAST10005 Calculus I</i></p> <p><b>The University of Saskatchewan</b>, Saskatoon, Saskatchewan, Canada</p> <p><i>MATH 327 Graph Theory</i></p> <p><i>STAT 241 Probability Theory</i></p> <p><i>MATH 328 Combinatorics and Enumeration</i></p> <p><i>STAT 241 Probability Theory</i></p>	<p><b>Semester 1, 2018</b></p> <p><b>Semester 2, 2014</b></p> <p><b>Semester 1, 2014</b></p> <p><b>Term 2, 2015-2016</b></p> <p><b>Term 1, 2015-2016</b></p> <p><b>Term 2, 2014-2015</b></p> <p><b>Term 2, 2014-2015</b></p>

RESEARCH INTERESTS	My research interests are in combinatorics and statistical mechanics, particularly lattice models of walks, polygons, animals and trees. Problems in these fields are also frequently connected with complex analysis, stochastic processes and algorithms for counting and simulating discrete structures.	
GRANTS	Discovery Early Career Researcher Award (DECRA) from the Australian Research Council (ARC)	2017–2020
PUBLICATIONS & SELECTED PRESENTATIONS	See the attached Publication List.	
CONFERENCE ORGANISATION	<p>Co-organiser (Proceedings Editor) of the 31<sup>st</sup> International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2019) July 1–5, 2019 University of Ljubljana, Ljubljana, Slovenia</p> <p>Co-organiser (Proceedings Editor) of the 29<sup>th</sup> International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2017) July 9–13, 2017 Queen Mary University of London, London, UK</p> <p>Co-organiser of three Contributed Minisymposia on <i>Combinatorics, topology and statistical mechanics of polymer models</i> 11th Biennial Canadian Discrete and Algorithmic Mathematics Conference (CanaDAM) June 1–4, 2015 University of Saskatchewan, Saskatoon, Canada</p>	
OUTREACH & ENGAGEMENT	<p>Member of the Advisory Board for <i>Journal of Physics A: Mathematical and Theoretical</i>.</p> <p>Volunteer for <i>MathsCraft</i> events, which connect mathematicians with high school students and teachers at events focused on open-ended mathematical problems and thinking like a researcher.</p> <p>Co-organiser of the Australian <i>National Science Quiz</i> 2017.</p> <p>Multiple-time performer at <i>The Laborastory</i>, a monthly science-based storytelling event held in Melbourne, Australia. See my website for recordings of my performances.</p> <p>Speaker at <i>Café Scientifique</i>, a monthly event held in cities around the world for scientists and like-minded people to discuss the latest advances in science and technology.</p>	