

Curriculum Vitae

Anita K. Ponsaing

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Education

- 2008–2011 Doctor of Philosophy in Science (Mathematics), University of Melbourne
Thesis Title: Finite size lattice results for the two-boundary Temperley–Lieb loop model
Supervisor: Professor Jan de Gier
- 2006 Bachelor of Science with Honours Class 1 (Mathematics), University of Queensland
Thesis Title: Algebraic structures of classical mechanics in Hilbert space
Supervisor: Emeritus Professor Anthony J. Bracken
- 2003–2005 Bachelor of Science (Mathematics), University of Queensland

Employment

- Mar 2015–Present Sessional Lecturer, Calculus 2 and Complex Analysis
University of Melbourne
- Jan 2015–May 2015 Research assistant, University of Melbourne
Supervisor: Professor Jan de Gier
- Nov 2013–Nov 2014 Postdoctoral research assistant, LPTHE, University Paris 6
Supervisor: Professor Paul Zinn-Justin
- Sep 2011–Oct 2013 Postdoctoral research assistant, Université de Genève
Supervisor: Professor Stanislav Smirnov
- Sep 2012–Oct 2013 Class tutoring, 1st year general mathematics and mathematical programming
languages (R, MatLab, Maple)
Université de Genève
- Sep 2009–Nov 2009 Visiting Scholar
Institut Henri Poincaré, Paris
- Mar 2008–Jun 2008 Class tutoring, 1st year Calculus
University of Melbourne
- Mar 2006–Nov 2006 Class tutoring, 1st and 2nd year mathematics subjects and MatLab
University of Queensland
- 2004–Aug 2011 Private tutoring in physics and mathematics, secondary school to university level
Brisbane and Melbourne

Academic Publications

Anita Ponsaing and Paul Zinn-Justin, '*Type \hat{C} Brauer loop schemes and loop models with boundaries*' (2014), submitted to *Ann. Inst. H. Poincaré D*; arXiv:1410.0262

Yacine Ikhlef and Anita Ponsaing, '*Finite-size left-passage probability in percolation*' (2012), *J. Stat. Phys.* **149**, p.10; arXiv:1202.5476

Jan de Gier and Anita Ponsaing, '*Separation of variables for symplectic characters*' (2011), *Lett. Math. Phys.* **97**, p.61; arXiv:1009.2831

Jan de Gier, Bernard Nienhuis and Anita Ponsaing, '*Exact spin quantum Hall current between boundaries of a lattice strip*' (2010), *Nucl. Phys. B* **838**, p.371; arXiv:1004.4037

Jan de Gier, Anita Ponsaing and Keiichi Shigechi, '*Exact finite size ground state of the $O(n = 1)$ loop model with open boundaries*' (2009), *J. Stat. Mech.* P04010; arXiv:0901.2961v3

Other Publications

Anita Ponsaing, '*A little number theory makes the times table a thing of beauty*', published in *The Conversation*, 8 June 2015; <http://theconversation.com/>

Presentations

'*Charles Babbage, Ada Lovelace and the mechanisation of the mundane*'
July 2015 The Laborastory, Melbourne; <http://thelaborastory.com/>

'*The Brauer loop scheme with boundaries*'
December 2014 8th Australia New Zealand Mathematics Convention, University of Melbourne
August 2014 Seminar, Department of Mathematics and Statistics, University of Melbourne
February 2014 Seminar, Laboratoire de Physique Théorique et Hautes Energies, Paris
December 2013 Workshop on Combinatorial Physics, Cardiff University

'*The two-boundary Brauer loop model*'
March 2013 Institute for Theoretical Physics, University of Amsterdam
March 2013 School of Mathematical & Computer Sciences, Heriot-Watt University, Edinburgh
February 2013 Random Tilings Workshop, Simons Center for Geometry and Physics, Stony Brook
February 2013 Meeting on Two-dimensional statistical mechanics, Les Diablerets

'*Left-passage probability in a finite lattice model*'
December 2011 Statistical Mechanics Meeting, University of Melbourne

'*The density of percolation cluster crossings of a finite lattice strip*'
November 2011 Seminar, Laboratoire de Physique Théorique et Hautes Energies, Paris

'*Finite size lattice results for the two-boundary Temperley–Lieb loop model*'
June 2011 PhD Completion Seminar, University of Melbourne

'*Separation of variables for the symplectic character*'
October 2012 Seminar, Laboratoire de Physique Théorique et Hautes Energies, Paris
December 2010 Statistical Mechanics Meeting, Australian National University, Canberra
November 2010 Integrability Day, La Trobe University, Melbourne
August 2010 Annual meeting of the Australian Mathematical Society, University of Queensland

'Edge currents in the $O(n = 1)$ loop model'

July 2010 StatPhys24, Cairns

'Two-boundary correlation function of the $O(n = 1)$ loop model'

November 2009 Seminar, Institute for Theoretical Physics, University of Amsterdam

'A solution of the q -deformed Knizhnik–Zamolodchikov equation'

February 2009 Mathematical Physics Workshop, University of Queensland, Coolangatta

December 2008 Statistical Mechanics Meeting, University of Melbourne

Awards

- 2010 B.H. Neumann Prize for best student presentation at annual meeting of the Australian Mathematical Society, value AU\$600
- 2009 John Hodgson Scholarship, Faculty of Science, University of Melbourne, value AU\$6,000
- 2009–2011 Top-Up Scholarship, value AU\$2,000 p.a.
- 2008–2011 Melbourne Research Scholarship, value AU\$20,000 p.a.
- 2006 Commonwealth Accommodation Scholarship, value AU\$4,000

Other Activities

- 2013–2014 Co-organiser and webmaster of “Integrability and Combinatorics”, a conference in memory of Yuri Stroganov, 23–27 June 2014, Giens, France
<http://www.lpthe.jussieu.fr/confstroganov2014/>
- 2008–Present Co-developer, co-presenter and webmaster of the Cosmic Tea Party science podcast
<http://cosmicteaparty.org/>
- 2009–2011 Statistics and Mathematics Postgraduate Students Society (STAMP)
University of Melbourne
2010–2011 Committee Member
2009 President
- 2010 Conducted the extension maths class at Elsternwick Primary School as part of the CSIRO Mathematicians in Schools program
- 2008 Mentored a year 10 student as part of the Mentor Program for Highly Able Senior Secondary Students, run by the Melbourne School of Graduate Research, University of Melbourne
- 2004 Treasurer and Leader for Biofutures, a week-long camp for senior secondary students
- 2003–2006 Queensland Youth Aerospace Forum (previously Queensland Youth Space Forum), a week-long camp for senior secondary students
2006 - Advisor to the Chair
2005 - Chair
2003 - Student Leader