

# Roberta Albuquerque

## Address and Contact

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## Education

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2012 – present	PhD. in Statistics, Department of Statistics, University of Warwick, UK.
Supervisors	Prof. Vassili Kolokoltsov and Dr. Dario Spanò.
2014– present	Postgraduate award (Parts 1 and 2), in Introduction to Academic and Professional Practice for Postgraduates who teach, Learning and Development Centre, University of Warwick, UK.
Tutor	Dr. Elke Thönnies.
2010 – 2012	M.Sc. by Research in Mathematics, Department of Mathematics, University of Warwick, UK.
Supervisor	Prof. K. David Elworthy.
Thesis title	Derivative formula on the Heisenberg Lie group.
2008 – 2010	M.Sc. in Mathematics, Institute of Mathematics, Statistics and Scientific Computing, State University of Campinas, IMECC/UNICAMP, Campinas, São Paulo, Brazil.
Supervisor	Dr. Pedro Catuogno.
Thesis title	Stochastic Calculus and Parallel Translation.
2005 – 2008	B. Sc. in Mathematics, Department of Mathematics, Centre for Natural and Exact Sciences, Federal University of Pernambuco, CCEN/UFPE, Recife, Pernambuco, Brazil.
Supervisors	Dr. Antônio Carlos Monteiro and Dr. Manoel Lemos. Topics in Number Theory and Cryptography.

## Scholarships and Awards

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2010 – present	CAPES graduate research scholarship, University of Warwick, UK.
2008 – 2010	CNPq/CAPES M.Sc. research scholarship, State University of Campinas, UNICAMP/IMECC, Brazil.
2007 – 2008	CNPq undergraduate research scholarship, Federal University of Pernambuco, Recife, Brazil.
2006 – 2006	Pibic undergraduate teaching scholarship, Federal University of Pernambuco, Recife, Brazil.
2005	Second place in B.Sc. in Mathematics entrance exam, Vestibular UFPE/UFRPE 2005.

## Research interests

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Probability. Stochastic integrable systems. Random matrices. Random media. Macdonald polynomials. Macdonald processes. Stochastic Analysis. Stochastic PDEs. Geometric analysis.

## Teaching experience and training

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2014/2015 Term 1	Tutorial: ST208 Mathematical Methods (lecturer: Dr. David Croydon), Department of Statistics, University of Warwick.
2014	Inequality in Education – Innovation in Methods Conference, ESRC Interdisciplinary Conference and Workshop, The Research Exchange, University of Warwick, 12 November.
2014	Maths/Stats PCAPP programme. Computer-aided assessment in mathematical sciences using Moodle and STACK, Dept of Statistics and Dept of Mathematics, University of Warwick, 10 November.
2014	Maths/Stats PCAPP programme. Teaching training session on A-level Mathematics, Department of Statistics and Department of Mathematics, University of Warwick, 27 October.
2014	Postgraduate teaching training session in teaching support, Department of Statistics, Department of Mathematics, and the Learning and Development Centre, University of Warwick, 8 October.
2014	Teaching training session on A-level Mathematics, Department of Statistics, University of Warwick, 22 September.
2014	International Communication Workshop, Department of Statistics, University of Warwick, 5 June.
2013/2014 Term 2	Tutorial: ST115 Introduction to Probability (lecturer: Dr. Jon Warren), Dept of Statistics, University of Warwick.
2013/2014 Term 1	Tutorial: ST202 Stochastic Processes (lecturer: Dr. Krysztof Latuszynski), Dept of Statistics, University of Warwick.
2013	Teaching training session on mathematical thinking, Department of Statistics, University of Warwick, 23 September.
2012/2013 Term 2	Tutorial: ST111/ST112 Probability A/B (lecturer: Dr. Nikos Zygouras), Department of Statistics, University of Warwick.
2012	Workshop for Postgraduate Students who Teach, Higher Education Academy, University of Leicester, 14 November.
2006 – 2006	Tutorial: Linear Algebra, Department of Mathematics, Federal University of Pernambuco.

## Conferences, Workshops and Summer schools

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2014	Advances in Probability: Integrability, Universality and Beyond, Clay Mathematics Institute, University of Oxford, 28-02 October.
2014	UK-Japan Stochastic Analysis School, University of Warwick, 1-5 September.
2014	School and Workshop on Random Interacting Systems, University of Bath, 23-27 June.
2014	Young Women in Probability, University of Bonn, 26-28 May. Poster presented.
2014	CRISM Council PhD Day, University of Warwick, 20 May. Poster presented.
2014	Probability, Analysis and Dynamics, University of Bristol, 22-25 April.
2013	Stochastic Growth Models (MiR@W day), University of Warwick, 21 October.
2013	XVII Brazilian School of Probability, Mambucaba, 4-10 August.
	Poster session on Exchangeable random partitions and coalescent theory.
2013	Academy for PhD Training in Statistics: Applied Stochastic Processes (lectured by Dr. Christina Goldsmith), University of Warwick, 29-03 August.
2013	Young Researchers Meeting, University of Warwick, 21 May.
	Talk on Exchangeable random partitions and coalescent theory.
2012	Models and Inference in Population Genetics, University of Warwick, 15 October.
2012	XVI Brazilian School of Probability, Recife, 6-11 August.
2012	Stochastic Analysis and Stochastic PDEs, University of Warwick, 16-20 April.
2012	2012 UK Easter Probability Meeting, University of Warwick, 26-30 March.
2011	Multiscale Systems: Theory and Applications, University of Warwick, 12-16 December.
2011	5th International Conference on Stochastic Analysis and its Applications, University of Bonn, 5-9 September.
2011	Young Researchers in Mathematics 2011, University of Warwick, 14-16 April.
2011	Young Women in Probability, University of Bonn, 11-21 May.
2009	Commutative Algebra and its Connections to Geometry, Olinda, 03-14 August.
	Pan-American Advanced Study Institute.
2009	IV Meeting of the postgraduate students of IMECC, State University of Campinas, IMECC/UNICAMP, 21-25 September.
2007	ERMAC. Regional Meeting of Applied Mathematics and Scientific Computing, Federal University of Pernambuco, CCEN/UFPE, 09-11 November.
2005	World Year of Physics in Brazil, Federal University of Pernambuco, DF/UFPE, 17-21 December.

## Postgraduate Award: Teaching and Learning in Higher Education

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2014	'Reflecting on your teaching and reflective writing', 3 hrs, 8 July.
2014	'Introduction to E-learning', 2 hrs, 10 June.
2014	'Teaching inclusively', 3 hrs, 2 June.
2014	'Teaching inclusively' (Online activities), 2 hrs, 1 June.
2014	'What does it mean to teach?', 3hrs, 23 May.
2014	'Lecturing, Assessment and research based learning', 5hrs, 21 May.
2014	'Motivating students beyond classroom', 3 hrs, 9 May.
2014	'Reimagining Assessment and Feedback in HE', 3hrs, 29 April.
2014	'Enhancing skills in small group teaching', 5hrs, 25 April.

## Courses at the University of Warwick

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2014/2015 Term 1	Stochastic Integrable Systems Reading Seminar (organized by Dr. Roger Tribe, Prof. Neil O'Connell, Dr. Jon Warren, Dr. Oleg Zaboronski, and Dr. Nikos Zygouras)
2013/2014 Term 3	Stochastic Integrable Systems Reading Seminar (organized by Dr. Roger Tribe, Dr. Jon Warren, Dr. Oleg Zaboronski, and Dr. Nikos Zygouras)
2013/2014 Term 2	Stochastic Integrable Systems Reading Seminar (organized by Dr. Roger Tribe, Dr. Jon Warren, Dr. Oleg Zaboronski, and Dr. Nikos Zygouras) Department of Statistics, University of Warwick.
2013/2014 Term 1	Stochastic Integrable Systems Reading Seminar (organized by Dr. Roger Tribe, Dr. Jon Warren, Dr. Oleg Zaboronski, and Dr. Nikos Zygouras) Department of Statistics, University of Warwick.
2012/2013	Measure-valued process reading group (organized by Dr. Paul Jenkins and Dr. Dario Spanò), Department of Statistics, University of Warwick, February-June.
2012/2013 Term 1	ST910: An Invitation to Graduate Probability, MASDOC program (lectured by Prof. Wilfrid Kendall), Department of Statistics, University of Warwick.
2012/2013 Term 1	ST416: Advanced Topics in Biostatistics (lectured by Dr. Paul Jenkins), Department of Statistics, University of Warwick,(Component 3 only, Diffusion processes).
2011/2012 Term 2	TCC Course on Large Deviation Theory (lectured by Dr. Hendrik Weber), Department of Mathematics, University of Warwick.
2010/2011 Term 2	MA595: Topics in Stochastic Analysis (lectured by Prof. K. David Elworthy), Department of Mathematics, University of Warwick.
2010/2011 Term 2	TCC Course on An introduction to SPDEs (lectured by Prof. Martin Hairer), Department of Mathematics, University of Warwick.
2010/2011 Term 2	MA3G8: Functional Analysis 2 (lectured by Dr. Daniel Ueltschi), Department of Mathematics, University of Warwick.
2010/2011 Term 1	MA482: Stochastic Analysis (lectured by Dr. Xue-Mei Li), Department of Mathematics, University of Warwick.
2010/2011 Term 1	MA4F7: Brownian Motion (lectured by Dr. Roger Tribe), Department of Mathematics, University of Warwick.
2010/2011 Term 1	MA4A2: Advanced PDEs (lectured by Dr. Melanie Rupflin), Department of Mathematics, University of Warwick.

## Language skills

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2014/2015 Term 1	In-session English 'Speaking and Listening' with Nigel Prentice, University of Warwick, UK.
2012/2013 Term 3	Dissertation Writing, Centre for Applied Linguistics, University of Warwick, UK.
2011/2012 Term 1	Beginner German, Lifelong Language Learning, The Language Centre, University of Warwick, UK.
2010/2011 Term 3	Beginner Spanish, Lifelong Language Learning, The Language Centre, University of Warwick, UK.
2010	TOEFL iBT, score: 86/120.
2009 - 2010	Intermediate and Upper Intermediate English, Language Teaching Center, State University of Campinas, CL/UNICAMP, São Paulo, Brazil
2008	English course. SENAC: National Service for Commercial Training, Recife, Pernambuco, Brazil.
2008	French course. SENAC: National Service for Commercial Training, Recife, Pernambuco, Brazil.

## Programming

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LaTeX, C/C++ (basic), Pascal (basic), Microsoft Office Programs (Word, Excel, PowerPoint)

## Courses at the State University of Campinas

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2010 Semester 2	Master's thesis.
2010 Semester 1	Topics in Analysis I (Stochastic Analysis). Master's thesis.
2010 Summer	Real Analysis I.
2009 Semester 2	Lie Groups (PhD level course). Introduction to Partial Differential Equations. Independent Study.
2009 Semester 1	Groups and representations. General Topology. Topics on Geometry III (PhD level course).
2009 Summer	Analysis in $\mathbb{R}^n$
2008 Semester 2	Linear Algebra. Differential Geometry.

## Courses at the Federal University of Pernambuco

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2008 Semester 1	Analysis 2. Graphs and algorithms. Theory of Computation. Introduction to Differential Geometry. Non-classical Logics (M.Sc. level course). Programming 2. Introduction to Modern Cryptography (M.Sc. level course).
2007 Semester 2	Algebra 2. Analysis 1. Cryptography and algorithms. Ordinary differential equations. Complex Analysis.
2007 Semester 1	Algebra 1. Differential and Integral Calculus 4. Introduction to Topology.
2006 Semester 2	Linear Algebra 2. Differential and Integral Calculus 3. Experimental Physics 2. General Physics 3. Numerical Calculus. Introduction to algebraic curves.
2006 Semester 1	Linear Algebra 1. Differential and Integral Calculus 2. Experimental Physics 1. General Physics 2. Introduction to Combinatorics. Topics of Elementar Geometry (Non-Euclidean geometry). Programming 1.
2006 Summer	Algebraic equations and $p$ -adic numbers.
2005 Semester 2	Differential and Integral Calculus 1. General Physics 1. Analytic Geometry 1. Graphic Geometry 1. Introduction to Mathematics 1. Introduction to Mathematics 2. Introduction to Number theory.

## Other

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In Brazil, I spent my free time on some sports: Riding horses, swimming, running, and artistic gymnastics. Nowadays, I'm doing some activities at Warwick sports center.

I love reading novels and poetry.