Julián F. Martínez

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Education

Ph.D. Mathematics, Leiden University, Sept,2010-March 2014.
Subject: Dynamical Gibbs Non-Gibbs transitions and Brownian Percolation.
Advisor: Prof.Dr. Frank den Hollander - Prof.Dr. Roberto Fernández.

Licenciado en Ciencias Matemáticas, 2008.
Degree thesis: Hydrodynamical limit for Simple Symmetric Exclusion Process.
Advisor: Prof. Dr. Mariela Sued.

Fields of Research Interest

Probability Theory, Interacting Particle Systems, Statistical Mechanics, Percolation, Large Deviations.

Publications

D. Erhard, J. Martínez, J. Poisat . Brownian Paths Homogeneously Distributed in Space: Percolation Phase Transition and Uniqueness of the Unbounded Cluster. *Journal of Theoretical Probability: 1-29. 2016*

Fernández, R., Hollander, F. D., Martínez, J. Variational description of Gibbs-non-Gibbs dynamical transitions for spin-flip systems with a Kac-type interaction. *Journal of Statistical Physics (2013): 1-18.*

Fernández, R., den Hollander, F., Martínez, J. Variational description of Gibbs-non-Gibbs dynamical transitions for the Curie-Weiss model. *Communications in Mathematical Physics, 1-28. 2013*

Fellowships and Awards

Francisco Aranda Ordaz Award to the best thesis in Probability written by a student from Latin America. Sponsored by the Bernoulli Society, 2014.

CAPES, Post-Doctorate of Excellence fellowship, Brazil, February 2014 (declined).

CONICET, Postdoctoral fellowship, FCEN, UBA, April 2014-April 2016.

Erasmus Mundus- BAPE scholarship, Sept.2010-Sept 2013.

CONICET, Phd fellowship, FCEN, UBA, April 2010-August 2010.

Short-term fellowship,CAPES-MINCYT, Brazil-Argentina.
"Nucleo de Modelagem Estocástica e Complexidade" , Sao Paulo University. November -December 2008.
Advisor: Prof. Dr. Pablo Ferrari.

Beca Estímulo, August 2007-August 2008.

Presentations in Conferences and Workshops

Branching Brownian particles with spatial selection and the KPP equation.
Minisimposium: Random structures and complex systems.

Congreso de matemática aplicada, computacional e industrial, 2 - 5 of May, 2017, Comodoro Rivadavia, Argentina.

School in Analysis and Stochastic Analysis.
8-10 of March, Instituto Argentino de MatemÃątica.

Variational description of Gibbs-non-Gibbs dynamical transitions.
Guided Tour: Random Media - December 12-16, 2016 - Eindhoven, The Netherlands.

Branching Brownian particles with spatial selection and the KPP equation.
Unión de Matemática Argentina 2016, BahÃŋa Blanca, Argentina.

Short research visit and talk at the Probability Seminar: P. Universidad Católica de Chile, Chile. Title: Hydrodynamic limit for branching Brownian particles with spatial selection and the KPP equation.

Short research visit: Leiden University, The Netherlands. From 07/07/2015 to 10/07/2015.

Short research visit: CEREMADE, Paris Dauphine, hosted by Julien Poisat. From 20/06/2015 to 02/07/2015.

R Fernández, F den Hollander, J Martínez: Variational description of Gibbs-non-Gibbs dynamical transitions. I Brazilian Congress of Young Researchers in Pure and Applied Mathematics - 10 to 12 December 2014 - São Paulo - Brazil.

D. Erhard, J. Poisat, J. Martínez: Percolation transition for Brownian paths homogeneously distributed in space. 4th Workshop in Stochastic Modeling - 05, 06, 07 November 2014 - ICMC - USP & UFSCar / São Carlos, SP, Brazil.

R Fernández, F den Hollander, J Martínez: Variational description of Gibbs-non-Gibbs dynamical transitions. XIII Latin American Congress of Probability and Mathematical Statistics - September 22 to 26, 2014 - Cartagena de Indias, Colombia.
Aranda-Ordaz Award Session.

R Fernández, F den Hollander, J Martínez: Variational description of Gibbs-non-Gibbs dynamical transitions for spin-flip systems with a Kac-type interaction. 37th Conference on Stochastic Processes and their Applications, July 28 - August 01, 2014, Universidad de Buenos.

D. Erhard, J. Poisat, J. Martínez: Percolation transition for Brownian paths homogeneously distributed in space. Probability seminar, FyCEN - UBA. 9/04/2014.

Given Courses

Minicourse: " Continuum Percolation" , Summer Program - INSTITUTO NACIONAL DE MATEMÁTICA PURA E APLICADA, Rio de Janeiro, 2015.