CLAUDIO LANDIM

Date/place of birth	28th January, 1965, Rio de Janeiro, Brazil
Affiliation	Instituto de Matemática Pura e Aplicada
	Estrada Dona Castorina, 110
	Jardim Botânico - Rio de Janeiro - Brazil - 22460-320
Current position	Researcher and Deputy Director
Telephone	+55 21 25295106
Email	landim@impa.br
Homepage	https://impa.br/page-pessoas/claudio-landim/
Fields of interest	Stochastic processes; Interacting Particle Systems; Large Deviations; Statistical Physics

EDUCATION

1996	Habilitation à Diriger des Recherches, Université de Rouen
1990	PhD in Mathematics, Université Paris VII
1986	MSc in Mathematics, Instituto de Matemática Pura e Aplicada (IMPA)
1985	Graduação em Matemática, Pontifcia Universidade Católica, Rio de Janeiro, Brazil.

ACADEMIC POSITIONS

since 2000	Researcher, IMPA
1994 – 2000	Associate Researcher, IMPA
1990 – 2002	Chargé de Recherches, CNRS, UMR 6085
1988 – 1990	Allocataire d'Enseignement et de Recherches, Université de Rouen

PRIZES & DISTINCTIONS

2016	Medalha Juscelino Kubitschek.
2010	Fellow of the The World Academy of Sciences (TWAS)
2010	Comendador da Ordem Nacional do Mérito Científico.
2006	The World Academy of Sciences (TWAS) Prize in Mathematics.
2004	John S. Guggenheim Memorial Foundation Fellow.
2002	Fellow of the Brazilian Academy of Sciences.
1997	Bronze Medal, CNRS, France.

SUPERVISION OF PhD STUDENTS

at IMPA	Ricardo Misturini [2014]; Bruno dos Santos Gois [2014]; Adriana Neumann de Oliveira [2011]; Tertuliano Franco Santos Franco [2011]; Fábio Julio da Silva Valentim [2010]; Alexandre de Bustamante Simas [2010]; Freddy Rolando Hernandez [2010]; Jonathan Farfan [2008]; Ana Patrícia Carvalho Gonçalves [2007]; Johel Beltrán [2005]; Jeronimo Monteiro Noronha Neto [2004]; Milton David Jara Valenzuela [2004]; Glauco Valle da Silva Coelho [2003]; Raquel Mariela Sued [2003]; Gonzalo Panizo [2001]
at U. Rouen	Nicolas Lanchier [2005]; Elise Janvresse [1998]; Abdelatif Koukkous [1997]

Selected Talks

08/2018	Invited Talk, International Congress of Mathematicians, Rio de Janeiro.
03/2016	Kai Lai Chung Lecture, University of Maryland.
07/2014	Lévy Lecture, 34th Conferece on Stochastic Processes and their Applications, Osaka.

Further activities (selection)

Editor	ALEA, Latin American Journal of Probability and Mathematical Statistics [2005 – 2012]; Revista Matemática Universitária [1999–2001]
Associate Editor	Probability Theory and Related Fields [2015–2017]; Electronic Journal of Probability and Electronic Communications of Probability [2015–2017]; ALEA, Latin American Journal of Probability and Mathematical Statistics [2013–2018]; Journal of Statistical Physics [2000–2002 and 2013–2018]; Annales de la Faculté des Sciences de Toulouse [2003–2006]; Stochastic Processes and their Applications [1999–2006]
Administrative	Deputy Director, IMPA [2008 – present]; President of the Latin-American Society of Probability and Mathematical Statistics - SLAPEM [2009–2012]; Member of the Committee for Conferences on Stochastic Processes of the Bernoulli Society [2003 – 2006]; Member of the Administration Council of IMPA [2000 – 2006]; Vice-president of the Brazilian Mathematical Society [1999–2000]

Selected Publications

[1] C. Landim, I. Seo. Metastability of Nonreversible Random Walks in a Potential Field and the Eyring-Kramers Transition Rate Formula. Comm Pure Applied Math 71, 203–266 (2018)

[2] J. Beltrán, M. Jara, C. Landim. A martingale problem for an absorbed diffusion: the nucleation phase of condensing zero range processes. Probab Th Rel Fields 169, 1169–1220 (2017)

[3] L. Bertini, A. De Sole, D. Gabrielli, G. Jona-Lasinio, C. Landim. Macroscopic fluctuation theory. Reviews of Modern Physics 87, 593–636 (2015).

[4] J. Beltrán, C. Landim. A Martingale approach to metastability. Probab Th Rel Fields 161, 267–307 (2014).

[5] C. Landim. Metastability for a non-reversible dynamics: The evolution of the condensate in totally asymmetric zero range processes. Comm Math Phys 330, no. 1, 1 – 32 (2014).

[6] M. Jara, C. Landim, A. Teixeira. Quenched scaling limits of trap models. Annals Probab 39, no. 1, 176–223 (2011).

[7] T. Franco, C. Landim. Hydrodynamic limit of gradient exclusion processes with conductances. Archiv Rat Mech Anal 195, no. 2, 409 –439 (2009).

[8] C. Kipnis, C. Landim. Scaling Limits of Interacting Particle Systems. Grundlehren der mathematischen Wissenschaften 320, Springer-Verlag Berlin Heidelberg (1999).

[9] C. Landim, H.T. Yau. Fluctuation-dissipation equation of asymmetric simple exclusion processes. Probab Th Rel Fields 108, no. 3, 321–356 (1997).

[10] C. Landim, S. Sethuraman, S.R.S. Varadhan. Spectral gap for zero-range dynamics Annals Probab, 24, no. 4, 1871–1902 (1996).