

Curriculum Vitæ
Nahuel SOPRANO-LOTO

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PERSONAL INFORMATION

BORN: 6 September, 1985
NATIONALITY: Argentinian / Italian
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CONTACT WORK

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EDUCATION

2010-2016 **Doctorado en Matemática**
Universidad de Buenos Aires
Advisors: Prof. Pablo A. FERRARI and Prof. Inés ARMENDÁRIZ
Area: probability

2006-2010 **Licenciatura en Matemática**
Universidad Nacional de La Plata
Grade: 9.94/10

2004-2006 **Ingeniería Civil (not concluded)**
Universidad Nacional de La Plata

FELLOWSHIPS AND AWARDS

2017-present **Postdoc position**
Universidad de Buenos Aires
Under the supervision of Prof. Pablo GROISMAN

2015-2017 **Postdoc position**
Gran Sasso Science Institute
Under the supervision of Prof. Errico PRESUTTI

2013-2015 **Beca Tipo II**
Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)

2010-2013 **Beca Tipo I**
Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)

2010 **Distinción Dr. Joaquín V. GONZÁLEZ**
Special Mention Award for the best grade of the Faculty of Exact Sciences
Universidad Nacional de La Plata

2007 **Competencia Ernesto Paenza (math competition for university students)**
5th place with Pablo DE CARIA

2000,2003 **Argentinian Mathematics Olympiad**
Special Mention Award

1997 **Argentinian Mathematics Olympiad**
3rd place

1997 **Clubes Cabri Competition (competition in geometry)**
1st place

PUBLICATIONS AND PREPRINTS

2017 **Turing instability in a model with two interacting Ising lines: fluctuations**
With Monia CAPANNA
In preparation

2017 **Hydrodynamics of the N-BBM process**
With Anna DE MASI, Pablo A. FERRARI and Errico PRESUTTI
arXiv:1707.00799

2017 **Turing instability in a model with two interacting Ising lines: hydrodynamic limit**

With Monia CAPANNA

arXiv:1703.08531

Accepted for publication in Markov Process And Related Fields

2015 **Transición de fase para modelos diluidos y grandes desvíos para magnetizaciones no homogéneas (PhD Thesis)**
http://cms.dm.uba.ar/academico/carreras/doctorado/tesis_sopranoloto.pdf
Universidad de Buenos Aires

2014 **Large deviations for spatially inhomogeneous magnetization and Young-Gibbs measures**

With Alessandro MONTINO and Dimitrios TSAGKAROGIANNIS

Journal of Statistical Physics, September 2016, Volume 164, Issue 6, pp 1318–1353

2014 **Phase transition for dilute models**

With Roberto FERNÁNDEZ

In preparation

2013 **Phase transition for the dilute clock model**

With Inés ARMENDÁRIZ and Pablo A. FERRARI

Stochastic Processes and their Applications, Volume 125, Issue 10, October 2015, Pages 3879–3892

2010 **Aspectos Matemáticos del Modelo de Ising**

Tesis de Licenciatura

Advisor: Alberto MALTZ

Universidad Nacional de La Plata

TEACHING EXPERIENCE

2012-present **Graduate teacher instructor**

Universidad Nacional de La Plata

2012-2013 **Math Olympiad training instructor**

Colegio Nacional Rafael Hernández (La Plata)

2010-2012 **Graduate teacher assistant**

Universidad Nacional de La Plata

2006-2010 **Graduate teacher assistant**

Universidad Nacional de La Plata

VISITS

2014 **University of Sussex (one week)**

Brighton, England

Prof. Dimitrios TSAGKAROGIANNIS

2014 **University of Warwick (three weeks)**

Coventry, England

Prof. Stefan GROSSKINSKY, Prof. Roman KOTECKÝ and Prof. Daniel UELTSCHI

2013 **Gran Sasso Science Institute (GSSI) (one month)**

L'Aquila, Italy

Prof. Errico PRESUTTI

2013 **Utrecht University (six weeks)**

Prof. Roberto FERNÁNDEZ

2013 **Budapest University of Technology and Economics (two weeks)**

Prof. Balint TOTH

2013 **Utrecht University (one month)**

Prof. Roberto FERNÁNDEZ

RESEARCH GROUPS

2014-2017 **Procesos Estocásticos y Mecánica Estadística**

Manager: Prof. Pablo A. FERRARI

Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)

2013-2016 **Procesos Estocásticos y Mecánica Estadística**

Manager: Prof. Pablo A. FERRARI

Universidad de Buenos Aires

2011-2014 **Procesos Estocásticos con Interacción**

Manager: Prof. Pablo A. FERRARI

Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)

2010-2013 **Probabilidad y Procesos Estocásticos**

Manager: Prof. Pablo A. FERRARI
Agencia Nacional de Promoción Científica y Tecnológica

2010-2013

Procesos Estocásticos

Manager: Prof. Pablo A. FERRARI

Universidad de Buenos Aires

INVITED TALKS

- 2014 **IHP trimester “Stochastic Dynamics Out of Equilibrium”**
Paris, France
- 2014 **XVIII Escola Brasileira de Probabilidade**
Mambucaba, Brazil
- 2014 **Conference on Stochastic Processes and Their Applications**
Buenos Aires, Argentina
- 2013 **Seminario de Probabilidad**
Universidad de Buenos Aires
- 2013 **Stochastics Colloquium**
Utrecht University
- 2013 **Most Informal Probability Seminar**
Leiden University
- 2013 **Sztochasztika Szeminárium**
Budapest University of Technology and Economics

CONFERENCE ATTENDANCE

- 2016 **Nonequilibrium: Physics, Stochastics and Dynamical Systems**
Marseille, France
- 2014 **XVIII Escola Brasileira de Probabilidade**
Mambucaba, Brazil
- 2014 **Glassy Systems and Constrained Stochastic Dynamics**
Warwick, England
- 2014 **Gradient Random Fields**
Warwick, England
- 2013 **School on Mathematical Statistical Physics**
Prague, Czech Republic
- 2013 **XVII Escola Brasileira de Probabilidade**
Mambucaba, Brazil
- 2013 **29° Colóquio Brasileiro de Matemática**
IMPA, Rio de Janeiro
- 2013 **One month summer school**
IMPA, Rio de Janeiro, Brazil
- 2012 **Stochastic dynamics of particles and networks, CIMPA school**
Mar del Plata, Argentina
- 2012 **PASI: Topics in percolative and disordered systems**
Santiago de Chile and Buenos Aires
- 2011 **XV Escola Brasileira de Probabilidade**
Mambucaba, Brazil
- 2010 **School of Information and Randomness**
Pucón, Chile
- 2010 **XIV Escola Brasileira de Probabilidade**
Mambucaba, Brazil
- 2010 **Annual meeting of the Argentinian Mathematics Society**
Tandil, Argentina
- 2010 **Probability and Statistical Physics in Two and more Dimensions**
Búzios, Brazil
- 2009 **Annual meeting of the Argentinian Mathematics Society**
Mar del Plata, Argentina
- 2009 **Two months Summer School**
IMPA
- 2008 **Annual meeting of the Argentinian Mathematics Society**
Mendoza, Argentina
- 2008 **3rd Meeting of Differential Equations**
Buenos Aires, Argentina

2006

Annual meeting of the Argentinian Mathematics Society
Bahía Blanca, Argentina

ADDITIONAL EXPERIENCE

2012

International Mathematical Olympiad coordinator
Mar del Plata, Argentina.

LANGUAGES

Spanish (native language), English and Portuguese.

REFERENCES

Errico PRESUTTI

`errico.presutti@gssi.infn.it`

Gran Sasso Science Institute

Pablo A. FERRARI (PH.D. Advisor)

`pferrari@dm.uba.ar`

Universidad de Buenos Aires

Inés ARMENDÁRIZ (PH.D. Advisor)

`ines.armendariz@gmail.com`

Universidad de Buenos Aires

Roberto FERNÁNDEZ

`R.Fernandez1@uu.nl`

Utrecht Universit