

Santiago J. Saglietti

Gender: Male
Date of birth: March 7th, 1986
Nationality: Argentine

Faculty of Industrial Engineering and Management
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Education

- Ph.D. in Mathematics, Universidad de Buenos Aires, June 2014.
Area: Probability.
Thesis title: “Metastability for a PDE with blow-up and the FFG dynamics in diluted models”.
Advisor: Pablo Groisman.
Grade: Sobresaliente (Outstanding).
- M.S. in Mathematics, Universidad de Buenos Aires, December 2009.
Area: Probability.
Thesis title: “Small random perturbations of dynamical systems”.
Advisor: Pablo Groisman.
Grade: 10/10.

Fields of Research Interest

Probability Theory, Interacting Particle Systems, Point Processes, Probabilistic methods in Statistical Mechanics, Metastability and Random Dynamical Systems.

Publications

Published

- Groisman, Pablo; Saglietti, Santiago. Small random perturbations of a dynamical system with blow-up. *J. Math. Anal. Appl.* 385 (2012), no. 1, 150-166.
- Galicer, Daniel; Saglietti, Santiago; Shmerkin, Pablo; Yavícoli, Alexia. L^q dimensions and projections of random measures. *Nonlinearity* 29 (2016) 2609-2640.
- Fernández, Roberto; Groisman, Pablo; Saglietti, Santiago. Stability of gas measures under perturbations and discretizations. *Rev. Math. Phys.* 28 (2016), no. 10, 1650022, 46 pp.
- Groisman, Pablo; Saglietti, Santiago; Saintier, Nicolas. Metastability for small random perturbations of a PDE with blow-up. *To appear in Stochastic Processes and their Applications.* *arXiv id:* 1501.01724.

Submitted

- Clément Laurent; Alejandro F. Ramírez; Christophe Sabot; Santiago Saglietti. Velocity estimates for symmetric random walks at low ballistic disorder. *arXiv id:* 1701.06308
- Matthieu Jonckheere; Santiago Saglietti. On the Kesten-Stigum theorem in L^2 beyond R -positivity. *arXiv id:* 1701.07634.

Fellowships

- Postdoctoral fellowship at Technion (Israel). 2017
Supervisor: Dmitry Ioffe.

- Postdoctoral fellowship at Pontificia Universidad Católica (Chile). April 2016-December 2016.
Supervisor: Alejandro Ramírez.
- CONICET Postdoctoral fellowship. July 2014-April 2016.
Supervisors: Matthieu Jonckheere and Pablo Shmerkin.
- CONICET Doctoral fellowship. April 2010-June 2014.
Supervisors: Pablo Ferrari and Pablo Groisman.

Presentations in conferences and workshops

- Congreso Latinoamericano de Probabilidad y Estadística Matemática 2016. December 5th-9th (2016).
San José de Costa Rica, Costa Rica.
Invited conference: “Velocity estimates for RWRE in the low disorder regime”.
- Reunión anual de la Unión de Matemática Argentina 2016. September 18th-21th (2016).
Bahía Blanca, Buenos Aires, Argentina.
Contributed talk: “El teorema de Kesten-Stigum en L^2 para el BABMD”.
- 46th Probability Summer School Saint Flour. July 3rd-15th (2016).
Saint Flour, France.
Contributed talk: “The Kesten-Stigum theorem in L^2 for the BABMD”.
- II Mini Summer School on Probability and Stochastic Processes. January 6nd-8th (2016).
Santiago de Chile, Chile.
Invited conference: “Metastability for small random perturbations of a PDE with blow-up”.
- XI Encuentro Regional de Probabilidad y Estadística Matemática. December 2nd-4th (2015).
Río Cuarto, Córdoba, Argentina.
Invited conference: “Metastability for small random perturbations of a PDE with blow-up”.
- Congreso de la Federación Interuniversitaria de Física de la Argentina. November 16th-18th (2015).
Buenos Aires, Buenos Aires, Argentina.
Invited conference: “Metaestabilidad para pequeñas perturbaciones aleatorias de una EDP con blow-up”.
- Reunión anual de la Unión de Matemática Argentina 2015. September 18th-21th (2015).
Santa Fé, Santa Fé, Argentina.
Contributed talk: “Metaestabilidad para pequeñas perturbaciones aleatorias de una EDP con blow-up”.
- XIX Escola Brasileira de Probabilidade. August 2nd-8th (2015).
Sao Sebastiao, Sao Paulo, Brazil.
Contributed talk: “A dynamical approach to Pirogov-Sinai theory”.
- CIMPA School 2015: Random processes and optimal configurations in analysis. July 6th-17th (2015).
Ciudad Autónoma de Buenos Aires, Argentina.
Contributed talk: “Metastability for small random perturbations of a PDE with blow-up”.
- X Americas Conference on Differential Equations and Nonlinear Analysis. February 9th-20th (2015).
Ciudad Autónoma de Buenos Aires, Argentina.
Contributed talk: “Metastability for small random perturbations of a PDE with blow-up”.
- 37th Conference on Stochastic Processes and their Applications. July 28th - August 1st (2014).
Ciudad Autónoma de Buenos Aires, Argentina.
Contributed talk: “Small random perturbations of a PDE with blow-up”.
- Reunión anual de la Unión de Matemática Argentina 2013. September 17th-20th (2013).
Rosario, Santa Fé, Argentina.
Short communication: “Convergencia de medidas de Gibbs bajo el régimen FFG”.
- XVII Escola Brasileira de Probabilidade. August 4th-10th (2013).
Mambucaba, Rio de Janeiro, Brazil.
Poster: “Convergence of Gibbs measures in diluted lattice models”.

- CIMPA School 2012: Stochastic dynamics of particles and networks. November 19th-30th (2012).
Mar del Plata, Buenos Aires, Argentina.
Short talk: “Convergence of discrete Gibbs measures in the thin hard rods model”.
- VII Encuentro Regional de Probabilidad y Estadística Matemática (ERPTEM). December 1st-3rd (2010).
Ciudad de Santa Fé, Santa Fé, Argentina.
Poster: “Pequeñas perturbaciones aleatorias de sistemas dinámicos”.
- Reunión anual de la Unión de Matemática Argentina 2010. September 29th - October 2nd (2010).
Tandil, Buenos Aires, Argentina.
Short communication: “Pequeñas perturbaciones aleatorias de sistemas dinámicos”.
- Clay Mathematics Institute 2010 Summer School. July 11th - August 7th (2010).
Subject: Probability and Statistical Physics in Two and More Dimensions.
Buzios, Brazil.
Poster: “Small random perturbations of dynamical systems”.
- II Escuela de Invierno Luis A. Santaló. August 12th-15th (2009).
Ciudad Autónoma de Buenos Aires, Argentina.
Poster: “Unpredictability of the explosion time for SDEs with blow up”.
- XIII Escola Brasileira de Probabilidade. August 2nd-8th (2009).
Sao Sebastiao, Sao Paulo, Brazil.
Poster: “Unpredictability of the explosion time for SDEs with blow-up”.

Other scientific meetings attended

- Random media in Atacama. December 12th-16th 2016.
San Pedro de Atacama, Chile.
- Ergodic theory, fractals and groups. October 11th-15th (2015).
Jerusalem, Israel.
- Disordered models of mathematical physics. July 21st-24th (2015).
Valparaíso, Chile.
- PASI 2012: Topics in percolative and disordered systems. January 9th-15th (2012).
Ciudad Autónoma de Buenos Aires, Argentina.
- VIII Encuentro Regional de Probabilidad y Estadística Matemática. December 1st-3rd (2011).
Ciudad Autónoma de Buenos Aires, Argentina.
- XV Escola Brasileira de Probabilidade. July 31st - August 6th (2011).
Mambucaba, Rio de Janeiro, Brazil.
- Reunión anual de la Unión de Matemática Argentina 2009. September 21st-26th (2009).
Mar del Plata, Buenos Aires, Argentina.
- X Congreso “Dr. Antonio A. R. Monteiro”. May 27th-29th (2009).
Bahía Blanca, Buenos Aires, Argentina.
- V Encuentro Regional de Probabilidad y Estadística Matemática. November 13th-15th (2008).
Balneario Solís, Maldonado, Uruguay.

Research visits

- Utrecht University (UU), Netherlands. February 2013.
Host: Roberto Fernández.
- Instituto de Matemática Pura e Aplicada (IMPA), Brazil. January 2015.
Host: Milton Jara.

- Gran Sasso Science Institute (GSSI), Italy. April 1st-20th 2015.
Host: Errico Presutti.
- Budapest University of Technology (BME), Hungary. April 21st - May 4th 2015.
Host: Balint Toth.
- Utrecht University (UU), Netherlands. May 5th - May 20th 2015.
Host: Roberto Fernández.
- Universidade Federal do Rio de Janeiro (UFRJ), Brazil. June 12th - June 18th 2016.
Host: Maria Eulalia Vares.

Committees

- Committee member for the selection of undergraduate teaching assistants. November 2014.
Institution: Departamento de Matemática, FCEyN, Universidad de Buenos Aires.

Invited courses

- Short course “Continuum percolation” at IMPA, Brazil. Joint lectures with Julián Martínez.
Period: January 2015.
Length: 3 weeks.

Seminars

- Pontificia Universidad Católica de Chile, October 2016.
- Universidade Federal do Rio de Janeiro, June 2016.
- Centro de Modelamiento Matemático (Santiago, Chile), May 2016.
- Instituto de Matemática Aplicada del Litoral (Santa Fe, Argentina), June 2015.
- Eindhoven University of Technology, May 2015.
- Leiden University, May 2015.
- Budapest University of Technology, April 2015.
- Università Roma Tre, April 2015.
- Universidad de Buenos Aires, Argentina. May 2014.

Teaching

- Assistant Professor, Universidad Torcuato Di Tella. March 2015 - March 2016.
- Instructor, Universidad de Buenos Aires (FCEyN). March 2012 - February 2015.
- Graduate teaching assistant, Universidad Torcuato Di Tella. March 2011 - February 2015.
- Graduate teaching assistant, Universidad de Buenos Aires (FCEyN). August 2010 - February 2012.
- Undergraduate teaching assistant, Universidad de Buenos Aires (CBC). March 2009 - February 2010.
- Undergraduate teaching assistant, Universidad de Buenos Aires (FCEyN). March 2008 - July 2010.

Languages

- Mother tongue: Spanish.

- English.

Last updated: February 16, 2017