

Curriculum Vitae for Italo Cipriano

Santiago, Chile

Phone: +56 9 5663 4441
Email: icipriano@gmail.com
Homepage: <http://www.icipriano.org/>

Education

2016 PhD Mathematics, The University of Warwick. Thesis title: “Entry times, escape rates and smoothness of stationary measures”.

2011 Mathematical Engineering, Universidad de Chile. Thesis title: “Randomized probability measures by permutative not algebraic cellular automata”.

List of publications

- I. Cipriano, *Entry time statistics to different shrinking sets*, Stochastics and Dynamics, doi: 10.1142/S0219493717500241.
- I. Cipriano and M. Pollicott, *Stationary measures associated to analytic iterated function schemes*, accepted.
- I. Cipriano, *The smoothness of the stationary measures*, arXiv:1607.02680.
- I. Cipriano, *Escape rate for special semi-flows over non-invertible subshifts of finite type*, arXiv:1607.01481.
- I. Cipriano, *A Large deviation and an escape rate result for special semi-flows*, arXiv:1607.02557.
- I. Cipriano, *The Wasserstein distance between stationary measures associated to iterated function schemes on the unit interval*, arXiv:1611.00092.

List of talks

- “Telescopic product measures” (11th and 18th Oct 2016), Grupo de estudio en dinámica, Pontificia Universidad Católica de Chile.
- “The Wasserstein distance between stationary measures” (7th Apr 2016), Seminario dinámica, Pontificia Universidad Católica de Chile.
- “How smooth are the stationary measures?” (30th Oct 2015), Dinámica Portena, Pontificia Universidad Católica de Valparaíso.
- “Entry time statistics to different shrinking sets” (5th Oct 2015), Seminario dinámica, Pontificia Universidad Católica de Chile.
- “Large Deviations” (17th Aug 2015), Young Research Meeting, University of Oxford.
- “Some spectral properties of the Perron Frobenius operator in one dimensional dynamics” (29th Jan 2014), Postgraduate Seminar, University of Warwick.

Teaching records

1. Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile (Santiago, Chile).
 - Lecturer.
 - Ordinary Differential Equations. First semester 2017.
 - Teaching assistant.
 - Information Theory. First semester 2011.
 - Information Theory applied to statistics and codification. First semester 2011.
 - Differentiation and Integration. First semester 2009.
 - Ordinary Differential Equations. First semester 2008.
 - Single Variable Calculus. First semester 2008.
2. Facultad de Economía y Negocios, Universidad de Chile (Santiago, Chile).
 - Teaching assistant.
 - Introduction to Algebra. First semester 2006.
3. Universidad Técnica Federico Santa María (Santiago, Chile).
 - Lecturer.
 - Introduction to Calculus. First and second semester 2017.
 - Differentiation and Integration. First and second semester 2017.
4. Universidad Adolfo Ibáñez (Santiago, Chile).
 - Lecturer.
 - Foundations. First semester 2017.
 - Linear Algebra. Second semester 2016.
5. Universidad de los Andes (Santiago, Chile).
 - Teaching assistant.
 - Calculus. First semester 2010
 - Multivariate Calculus. Second semester 2010.
 - Optimization. Second semester 2010.
6. The University of Warwick (Coventry, UK).
 - Teaching assistant.
 - Functional Analysis I. First Term 2012.
 - Supervisor.
 - Second year students in Advanced Linear Algebra, Vector Analysis, Analysis III, Algebra II and Metric Spaces. 2011- 2013.

Engineering research

Research assistant FONDEF IT16M10012. Project title: “Supervisión y Control Optimizante de Relaves empleando Tecnologías Emergentes”. Pontificia Universidad Católica de Chile, Santiago, Chile, December 2016-.

Research assistant FONDECYT 1161039. Project title: “Proyecto Tranque Inclusivo - desarrollo de herramientas tecnológicas para el monitoreo de depósitos de relaves”. Pontificia Universidad Católica de Chile, Santiago, Chile, January 2017-.

Scientific divulgation

Blog dedicated to Maths divulgation (some articles only in Spanish): <https://icipriano.wordpress.com/>
“About Maths” (17th Nov 2015), Scuola Italiana de Santiago.

Others

Languages: Spanish, English, Italian.

Certifications: Machine Learning by Stanford University on Coursera (earned on September 28, 2016).
Algorithmic Toolbox by University of California, San Diego & Higher School of Economics (earned on October, 2016).

Other skills: Python, Matlab, Latex, mathematical modeling, applied mathematics, algorithms, statistics, mathematical education, university teaching, optimization.

Sports: swimming, spinning, cycling, running.