

Curriculum Vitae for Italo Cipriano

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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”.

Teaching records

Lecturer of Introduction to Calculus. Universidad Técnica Federico Santa María, Santiago, Chile, September-December 2017.

Lecturer of Differentiation and Integration. Universidad Técnica Federico Santa María, Santiago, Chile, September-December 2017.

Lecturer of Ordinary Differential Equations. Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile, Santiago, Chile, March-July 2017.

Lecturer of Foundations. Universidad Adolfo Ibáñez, Santiago, Chile, March-July 2017.

Lecturer of Introduction to Calculus. Universidad Técnica Federico Santa María, Santiago, Chile, March-July 2017.

Lecturer of Differentiation and Integration. Universidad Técnica Federico Santa María, Santiago, Chile, March-July 2017.

Lecturer of Linear Algebra. Universidad Adolfo Ibáñez, Santiago, Chile, August-December 2016.

Supervisor of second year students in Advanced Linear Algebra, Vector Analysis, Analysis III, Algebra II and Metric Spaces. Teaching assistant: Functional Analysis I (First Term 2012). University of Warwick, Coventry, UK, September 2011- March 2013.

Teaching assistant: Calculus, Multivariate Calculus and Optimization. Universidad de los Andes, Santiago, Chile, 2010.

Teaching assistant: Ordinary Differential Equations and Single Variable Calculus. Marking test assistant: Algebra and Single Variable Calculus. Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile, Santiago, Chile, 2008.

Teaching assistant: Introduction to Algebra. Facultad de Economía y Negocios, Universidad de Chile, Santiago, Chile, March-July 2006.

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-.

List of publications

I. Cipriano, *Entry time statistics to different shrinking sets*, Stochastics and Dynamics, doi: 10.1142/S0219493717500241

I. Cipriano, *Escape rate for special semi-flows over non-invertible subshifts of finite type*, submitted, available on <https://arxiv.org/abs/1607.01481>

I. Cipriano, *A Large deviation and an escape rate result for special semi-flows*, submitted, available on <https://arxiv.org/abs/1607.02557>

M. Pollicott, I. Cipriano, *Stationary measures associated to analytic iterated function schemes*, submitted.

I. Cipriano, *The moothness of the stationary measures*, submitted, available on <https://arxiv.org/abs/1607.02680>

I. Cipriano, *The Wasserstein distance between stationary measures associated to iterated function schemes on the unit interval*, submitted.

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.

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).

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

Sports: swimming, spinning, cycling, running.