
Mauricio Poletti

Ph.D. in Mathematics

Address

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EDUCATION

Post-Doctoral Position 2018

Faculté des Sciences d'Orsay Université Paris-Sud (France).
Advisor: Sylvain Crovisier.

Post-Doctoral Position 2017

LAGA - Université Paris 13 (France).
Advisor: Carlos Matheus Silva Santos.

Post-Doctoral Position 2016

IMPA - Instituto de Matemática Pura e Aplicada (Brazil).
Advisor: Marcelo Viana.

Ph.D. in Mathematics. 2012 - 2016

IMPA - Instituto de Matemática Pura e Aplicada (Brazil).
Advisor: Marcelo Viana.

M.Sc. in Applied Mathematics. 2010 - 2012.

IMPA - Instituto de Matemática Pura e Aplicada (Brazil).
Advisor: André Nachbin.

Bachelor Degree in Engineering. 2004 - 2010.

FIUNA - Facultad de Ingeniería de la Universidad Nacional de Asunción (Paraguay).

RESEARCH

Accepted for publication.

- (1) Continuity of Lyapunov exponents is equivalent to continuity of Oseledets subspaces (with Lucas Backes) *Stochastic and Dynamics* 17, 1750047 (2017).
- (2) The set of cocycles with small but not vanishing Lyapunov Exponents is open (with Lucas Backes and Adriana Sanchez) to appear in *Mathematical Research Letters* (2017)
- (3) Geometric growth of Anosov maps on the 3 Torus, to appear in *Bulletin of the Brazilian Mathematical Society* (2018).

- (4) Stably positive Lyapunov exponents for symplectic linear cocycles over partially hyperbolic diffeomorphisms, to appear in *Discrete and Continuous Dynamical Systems* (2018).
- (5) A Livšic theorem for matrix cocycles over non-uniformly hyperbolic systems (with Lucas Backes) to appear in *Journal of Dynamics and Differential Equations* (2018).

Submitted articles.

- (1) Simple Lyapunov Spectrum for linear cocycles over certain partially hyperbolic maps (with Marcelo Viana), pre-print (2016).
- (2) Simplicity of Lyapunov spectrum for linear cocycles over non-uniformly hyperbolic systems (with Lucas Backes, Yuri Lima and Paulo Varandas) preprint (2017)
- (3) On the genericity of positive exponents of conservative skew products with two-dimensional fibers (with Davi Obata), pre print (2018).

AWARDS AND FELLOWSHIPS

- Post doctoral Fellowship at Université Paris-Sud (2018)
- Post doctoral Fellowship at L.A.G.A. Université Paris-13 (2017)
- CAPES Pos doctoral Fellowship (2016)
- CNPq Ph.D. Fellowship. 2012 - 2016.
- FAPERJ Student Grade A, M.Sc. Fellowship. 2011 - 2012.
- CNPq M.Sc. Fellowship. 2010 - 2011.

INVITED ADDRESSES

- Workshop on Dynamical Systems, organized by the Federal University of Alagoas, Maceio, Brazil - July 2018
- School on Hyperbolic Dynamics, Centro di Ricerca Matematica Ennio De Giorgi, Pisa Italy - June 2017.
- International Conference on Dynamical Systems, Búzios, Rio de Janeiro - July 2016.
- Seminario Dinámica Porteña, Valparaiso, Chile - Mayo 2016.
- Workshop de Topologia e Dinamica – 11a edição, IME-UFF, Niteroi - February 2016.
- IV Encontro Mineiro de Sistemas Dinamicos, Uberlandia, Brazil - November 2015.
- Poster Presentation, XXXII CNMAC - Congresso Nacional de Matemática Aplicada e Computacional, Cuiaba, Brazil - September 2009.

TEACHING

At IMPA.

- Basics of Calculus-PROFMAT Mar-Jun 2016

At Facultad Politécnica de Universidad Nacional de Asunción.

- Introduction to Analysis in \mathbb{R}^n July 2012
- Introduction to Real Analysis July 2013
- Introduction to Real Analysis July 2014

As Teacher Assistant at IMPA.

- Real Analysis Summer 2011
- Ordinary differential equations Mar-Jun 2012
- Ergodic Theory Ago-Nov 2012
- Basics of Calculus-PROFMAT Mar-Jun 2013
- Measure Theory equations Jul-Nov 2013
- Ordinary differential equations Mar-Jun 2014
- Basics of Calculus-PROFMAT Mar-Jun 2014
- Basics of Calculus-PROFMAT Mar-Jun 2015
- Functional Analysis Summer 2015
- Ergodic Theory Ago-Nov 2015

ADDITIONAL INFORMATION

LANGUAGE.

English Fluently
Spanish Mother tongue
Portuguese Fluently

EXTRACURRICULAR ACTIVITIES.

Staff of the online journal of scientific dissemination *Ciencias del Sur* www.cienciadelsur.com.

Student Representative at the Board of Directors in FIUNA (Faculty of engineering of the Universidad Nacional de Asunción) 2008-2010

REFERENCES

Professor Marcelo Viana
IMPA - Instituto de Matemática Pura e Aplicada
viana@impa.br

Professor Enrique Pujals
IMPA - Instituto de Matemática Pura e Aplicada
enrique@impa.br

Professor Carlos Matheus Silva Santos
École Polytechnique
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Professor Sylvain Crovisier
Université Paris Sud
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