

UNIVERSITÀ DEGLI STUDI DI MILANO

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Dott. Paolo Giulietti

CURRICULUM SCIENTIFICO

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PARTE I – INFORMAZIONI GENERALI

Nome Cognome: Paolo Giulietti

Data di Nascita: 29/06/1981

Cittadinanza: Italiana

Posizione attuale : RTD/A
Dipartimento di Matematica - Università di Pisa

1 October 2020 - Ongoing

Parte II – TITOLI DI STUDIO

Università degli studi di Roma "La Sapienza"

Roma, Italia

Dottorato in Matematica, Dottorato con Borsa

October 2006 - February 2011

Fisica matematica - Sistemi Dinamici

Tesi: On Transfer operator for Anosov flows

Relatore: Prof. C. Liverani

Scuola Matematica Interuniversitaria

Cortona, Italia

Formazione complementare

July 2006 – August 2006

Financial Mathematics - Stochastic Analysis and Modeling

Università di Pisa

Pisa, Italia

Laurea

September 2000 – May 2006

Tesi: Anosov flows

Relatore: Prof. P. Majer

United World College of the American West

Montezuma - New Mexico, USA

IB Baccalaureate

August 1998 - May 2000

PARTE III – Attività

III.1 - Attività didattica

Analisi Matematica

Incarico di codocenza

Laurea Magistrale Ciclo Unico Ingegneria Edile-Architettura

Università di Pisa

Marzo 2020 - Giugno 2021

Analisi Matematica I

Incarico di codocenza

Corso di Laurea in Ingegneria Chimica

Università di Pisa

October 2020 - Giugno 2021

Istituzioni di Analisi

Supporto alla didattica

Corso di Laurea in Matematica

Università di Pisa

October 2017 - 2019

Analisi Reale, Combinatoria

Lecturer

Universidade Federal do Rio Grande do Sul - Porto Alegre (BR)

UFRGS

February 2016 - July 2016

Calculus, Algebra Lineare

Lecturer

UFRGS

February 2015 - December 2016

Analisi Funzionale

Lecturer - Phd Course

UFRGS

February 2014 - July 2014

Algebra Lineare

Lecturer

UFRGS

February 2014 - December 2014

Matematica applicata

Lecturer

UFRGS

February 2013 - December 2013

Calculus

Tutor

LUISS Guido Carli, Rome

September 2007 – June 2010

III.2 Formazione e ricerca

CRM - Scuola Normale Superiore

Postdoc

Pisa, IT

March 2017 - September 2020

Universidade Federal do Rio Grande do Sul

Professor Adjunto

Tenure Position

Porto Alegre, Brasile

February 2013 - February 2017

Université de Bretagne-Occidentale

BREUDS Secondment

On fractional derivatives and dynamical systems

Brest

December 2015

Universidade Federal do Rio Grande do Sul

CNPq Grant - PVE Scheme

Team member of the research group "On Dynamical zeta functions"

Porto Alegre

September 2014 - July 2017

Université Grenoble Alpes

BREUDS Secondment

On transport equations and the transfer operator

Grenoble, Francia

July 2014

Universidade Federal do Rio Grande do Sul

Post-doc Scholarship - CNPq

On thermodynamic formalism

Porto Alegre, Brasile

April 2012 - February 2013

Università di Roma - Tor Vergata*Post-doc Scholarship*

Team member of ERC Grant "Macroscopic laws and dynamical systems"

Roma, Italia*September 2010 - February 2012***Università di Lille, Francia***GREFI-MEFI Secondment*

Obstructions to cohomological equations

Lille, Francia*12 -24 November 2008***III.3 - Attività Collaborative****Univ. Tor Vergata***PRIN Regular and stochastic behaviour in dynamical systems*

Team member

*PRIN 2019 - 2021***Scuola Normale Superiore**<https://www.sns.it/it/gruppo-ricerca-sistemi-dinamici>*Gruppo di ricerca di Sistemi dinamici*

Team Member

Universidade Federal do Rio Grande do Sul*CNPq Grant - PVE Scheme*

Team member of the research group "On Dynamical zeta functions"

Porto Alegre*September 2014 - July 2017***Università of Rome Tor Vergata***Post-doc Scholarship*

Team member of ERC Grant "Macroscopic laws and dynamical systems"

Roma, Italia*September 2010 - February 2012***III.4 - Relatore a congressi e convegni nazionali e internazionali - Su Invito****Queen Mary University of London***Dynamical Systems Seminar*

Parabolic dynamics via anisotropic spaces

UK*2-7 March 2020***KTH***The Dynamical Systems Seminar*

Parabolic dynamics via anisotropic spaces

Stockholm, Sweden*16-19 February 2020***Università di Roma - Tor Vergata***Regular and stochastic behaviour in dynamical systems*

Infinite Mixing for Skewproducts

Roma*12-14 February 2020***Pennsylvania State University***Minicourse: Parabolic dynamics via anisotropic spaces***PA - USA***4-23 November 2019***University of Bremen***7th Bremen Summer School- Dynamical Systems*

Parabolic dynamics - An introduction

Bremen, Germany*5-9 August 2019***CIRM - Marseille***Thermodynamic formalism: Ergodic Theory and Validated Numerics*

Linear response for random dynamical systems with noise

France*8-13 July 2019***Univ. of Zurich and ETH***Ergodic Theory and Dynamical Systems seminars*

On Non-linear Pseudo-Anosov maps and parabolic flows

Switzerland*24 June 2019***MFO Oberwolfach***Séminaire de Géométrie et Dynamique*

On Non-Linear Pseudo-Anosov maps and parabolic flows

Germany*13 June 2019***Université de Lille***Séminaire de Géométrie et Dynamique***France***26 April 2019*

Parabolic Dynamics and Anisotropic Banach Spaces

Università di Pisa

Dynamical systems and beyond

Parabolic Dynamics and Anisotropic Banach Spaces

Pisa
25-27 March 2019

HSE & Skoltech, Moscow

Moscow-Pisa Colloquium

Parabolic dynamics via transfer operator

Russia
1-5 October 2018

Loughborough University

Dynamics Days Europe

Linear response for dynamical systems with random noise

UK
3-8 September 2018

Queen's University

Dynamics in Number Theory and Geometry - Fields Institute

Infinite mixing for one dimensional maps with an indifferent fixed point

Canada
21 -25 August 2017

Centre de Physique Théorique

Seminars

On parabolic dynamics

Marseille, France
July

Indam

Modern Trends in the Ergodic Theory of Dynamical Systems

Infinite mixing for maps with an indifferent fixed point

Roma
5-9 June 2017

IMPA

The first Joint Meeting Brasile – Italia in Mathematics

On anisotropic Banach spaces for parabolic dynamics

Rio de Janeiro, Brasile
29 August - 2 September 2016

SNS

Analytical Methods in Classical and Quantum Dynamical Systems

On Parabolic dynamics

Pisa, Italia
27 June- 1 July 2016

Laboratoire de Mathématiques de Bretagne Atlantique

Systèmes dynamiques, probabilités et statistique LMBA

The calculus of thermodynamic formalism

Brest, France
19 May 2016

CIRM

Extreme Value Theory and Laws of Rare Events

On Anisotropic Banach Spaces

Marseille, Francia
7 - 18 July 2014

UFSC

Colóquio de Matemática da Região Sul

On Zeta functions

Florianopolis, Brasile
28 April - 2 May 2014

Università di Pisa

Dynamical System Seminars

Anosov Flows and L-function

Pisa, Italia
30 January 2014

Universidade Federal Fluminense

Seminário Edaí IME - UFF 2012

Dynamical zeta functions for Anosov flows

Rio de Janeiro, Brasile
21 September 2012

Università di Pisa

Second Meeting of Italian Hyperbolicians

Zeta functions

Pisa, Italia
20 - 23 September 2011

Centro de Giorgi - SNS

Sistemi dinamici nonlineari e applicazioni

Zeta functions in Dynamical Systems

Pisa, Italia
18 - 19 February 2011

III.5 Eventi - Coordinazione

DinAmici VI

<http://www.crm.sns.it/event/450>

Conference - Organizing Committee

Pisa

June 2019

Leaning Tori - An Hamiltonian event under the Tower

<http://www.crm.sns.it/event/447/>

Conference- Organizing Committee

SNS - Pisa

May 2019

Dynamical Systems Seminar

<http://www.crm.sns.it/event/439/speakers.html?table=1>

with Jessica Massetti

SNS - Pisa

2018 - 2019

Dynamical Systems Seminar

<http://www.crm.sns.it/event/418/speakers.html?table=1>

with Mauro Artigiani

SNS - Pisa

2017 - 2018

III Escola Brasileira de Sistemas Dinâmicos

<https://www.ufrgs.br/3ebds/>

Conference - Organizing Committee

UFRGS, Porto Alegre, Brasile

20- 24 October 2016

III.6 - Partecipazione ad eventi

InDAM

Geometric, analytic and probabilistic appr. to dynamics in negative curvature

Rome

13 - 17 May 2013

ICTP

ESF - School and Conference in Dynamical Systems

Trieste

21 May - 20 June 2012

Fields Institute

Dynamics and Transport in Disordered Systems

Università of Toronto

1 April - 30 June 2011

INdAM Meeting

Hyperbolic Dynamical Systems in Science

Corinaldo - Italia

31 May - 4 June 2010

Mathematisches Forschungsinstitut

Spectrum of Transfer Operators

Oberwolfach

8 - 14 November 2009

Università of Gottingen

Summer school on Dynamical Systems

Gottingen

12 - 26 July 2009

ICTP

School and Workshop on Dynamical Systems

Trieste

30 June - 17 July 2008

Erwin Schrodinger Institute

Hyperbolic Dynamical Systems

Vienna

25 May - 30 June 2008

CIRM

From dynamical systems to statistical mechanics

Marseille

4 February - 7 March 2008

III.6 – Atri titoli posseduti

Virology Database Analyst

Department of experimental medicine

Università degli studi Roma Tor Vergata

December 2006 – June 2007

Qualification au maître de conference

25 - Mathématiques

2016

Undergraduate Supervisor - Master Thesys

Rafael Pereira

UFRGS

March 2015 - March 2016

“Uma Introdução as Aplicações do tipo Twist” (Dynamical system thesis: “On Twist applications”)

Undergraduate Research Mentorship Program

UFRGS

Cassiê Fernanda Longhi

August 2013 - July 2015

Computational aspects of zeta functions

Undergraduate Research Mentorship Program

UFRGS

Arthur Lovato

August 2014 - July 2015

A transfer operator approach to the rotary drill

Ph.D. External Examiner

Universidade Federal do Rio de Janeiro

Rafael Nóbrega de Oliveira Lucena

September 2015

Spectral Gap for Contracting Fiber Systems and Applications

Progetto Finanziato

INDAM - GNFM Progetti Giovani 2020

Principal Investigator

February 2021 - July 2022

“Deterministic and stochastic dynamical systems for climate studies” - Value: 3.4K

Parte IV – PUBBLICAZIONI SCIENTIFICHE

1. P. Giulietti. “On Transfer Operators for Anosov Flows”. PhD thesis. Università degli studi di Roma “La Sapienza”, 2011
2. P. Giulietti, C. Liverani, and M. Pollicott. “Anosov Flows and Dynamical Zeta Functions”. In: *Annals of Mathematics* (2013), pp. 687–773
3. P. Giulietti. “Zeta functions and Continuous time Dynamics”. In: ed. by A. A. Pinto and D. Zilberman. Vol. 73. Springer Proceedings in Mathematics and Statistics. Springer-Verlag, 2014, pp. 285–303
4. P. Giulietti, A.O. Lopes, and V. Pit. “Duality between Eigenfunctions and Eigendistributions of Ruelle and Koopman operators via an integral kernel”. In: *Stochastics and Dynamics* 16-3 (2016)
5. P. Giulietti, A.O. Lopes, D. Marcon, and B. Kloeckner. “The Calculus of Thermodynamic Formalism”. In: *Journal of the European Mathematical Society* 20 (2018). doi: 10.4171/JEMS/814
6. P. Giulietti and C. Liverani. “Parabolic dynamics and Anisotropic Banach spaces”. In: *Journal of the European Mathematical Society* (2019). doi: 10.4171/JEMS/892
7. S. Galatolo and P. Giulietti. “Linear response, dynamical systems with additive noise and the control of their statistical properties”. In: *Nonlinearity* (2019). doi: 10.1088/1361-6544/ab0c2e
8. C. Bonanno, P. Giulietti, and M. Lenci. “Global-local mixing for the Boole Map”. In: *Chaos, Solitons and Fractals* (2018). doi: 10.1016/j.chaos.2018.03.020
9. C. Bonanno, P. Giulietti, and M. Lenci. “Infinite mixing for one-dimensional maps with an indifferent fixed point”. In: *Nonlinearity* 31.11 (2018). URL: doi.org/10.1088/1361-6544/aadc04
10. P. Giulietti, P. Koltai, and S. Vaienti. “Targets and Holes”. In: *Online - Proceedings of the American Mathematical Society* (2020). doi: 10.1090/proc/15384
11. P. Giulietti, A. Hammerlindl, and D. Ravotti. “Quantitative global-local mixing for accessible skew products”. In: *arXiv:2006.06539* (2020)

Pisa, 15 03 2021