Francesco Ricci

Curriculum Vitæ

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Personal Details

Surname	Ricci
First Name	Francesco
Gender	Male
Date of Birth	November 14, 1986
Nationality	Italian
Address	Imperial College London
	Department of Mathematics
	London, SW7 2AZ

Education

2012–present	**PhD student**, *Imperial College London, Roth Scholarship,* Supervisor: Professor Jeroen Lamb.
2011–2013	**Second Degree (Masters) in Mechanical Engineering**, *Università degli Studi di Firenze.*
2008–2011	**Second Degree (Masters) in Mathematical Engineering**, *Università degli Studi di Firenze, 110/110 cum laude.*
2005–2008	**First Degree in Mechanical Engineering**, *Università degli Studi di Firenze.*
2000–2005	**High School Diploma**, *Liceo Scientifico Leonardo da Vinci*, Firenze, *100/100.*

Masters thesis

Title	*Studio della Dinamica e Controllo di un Modello Non-Lineare per la Bicicletta (Study of the Dynamics and Control of a Nonlinear Model for the Bicycle)*
Supervisors	prof. L. Chisci, prof. G. Frosali

Research activity and interests

I am studying the emergence of collective properties in evolving complex networks when the nodes and structure time scales are competing. In particular, my research is focused on the study of the dynamics of expanding circle maps interacting in a heterogeneous random network which changes in time, where the evolution of the graph is modelled by a process that leaves invariant the probability measure associated to the maps.

Publications

[1] F. Ricci and G. Frosali. A nonlinear mathematical model for a bicycle. In *Atti XIX Congresso AIMETA (CD-ROM version)*, Sept. 2009.

[2] F. Ricci and G. Frosali. Kinematics of a bicycle with toroidal wheels. *Communications in Applied and Industrial Mathematics*, 3(1), 2012.

Invited Talks

2014   **AMMP Day 2014**, *Imperial College London*, London,
Dynamics of Coupled Maps in Heterogeneous Time-Varying Random Networks.
10 December

XXXIV Dynamics Days Europe, *University of Bayreuth*, Bayreuth,
Dynamics of Coupled Maps in Heterogeneous Time-Varying Random Networks.
8–12 September

2012   **Congresso SIMAI 2012**, *Politecnico di Torino*, Torino,
Nonlinear Analysis of the Two-Mass-Skate Bicycle Model.
25–28 June

2009   **XIX Congresso AIMETA**, *Università Politecnica delle Marche*, Ancona,
A Nonlinear Mathematical Model for a Bicycle.
14–17 September

Seminars, Conferences and Workshops

2015   **Houston Summer School on Dynamical Systems**, *University of Houston*, Houston.
20–28 May

Statistical Properties of Dynamical Systems, *Loughborough University*, Loughborough.
13–17 April

2014   **Wandering Seminar: A mini-conference on Ergodic Theory and Dynamical Systems**, *AGH University of Science and Technology*, Kraków.
20–23 November

The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, *ICMAT*, Madrid.
7–11 July

Collective Behavior: Macroscopic versus Kinetic Description, *Imperial College*, London.
19–23 May

2013   **IRTG 1740: Dynamical Phenomena in Complex Networks**, *Humboldt-Universität zu Berlin*, Berlin.
7–12 September