

Andrea Puglisi - Short CV.

Born in Rome on the 11th of June, 1973

Work address: Dipartimento di Fisica - Università La Sapienza

p.le Aldo Moro 2, 00181, Roma, Italy

e-mail: Andrea.Puglisi@roma1.infn.it

Fields of activity

- Out-of-equilibrium statistical mechanics: granular fluids, fluctuations, correlations, breakdown of time-reversibility, hydrodynamics and kinetic theory, capillary physics and micro-fluidics.
- Data compression and information theory, applications to time-series analysis dynamical systems, linguistics, genetics; modelling of self-organization of conventions in natural and artificial communicating systems.
- Experiments with granular fluids, friction and ratchet effects.

Academic and scientific career

since 16/7/2009: Researcher (TI) at the CNR-INFM-SMC, now CNR-ISC (Institute for Complex Systems at National Research Council)

October 2008 - July 2009: Researcher and First Researcher (TD) at the CNR-INFM-SMC (Center for Statistical Mechanics and Complexity in the INFN institute of italian Center for National Research)

January 2008-September 2008: Research fellowship from CNISM, at the Physics Department of “La Sapienza”

January 2006-December 2007: Research fellowship (from EU projects and PRIN) at the University “La Sapienza”

January 2004-December 2005: “Marie-Curie” individual fellowship granted at the Laboratoire de Physique Theorique of the University Paris-Sud (Orsay, Paris);

January 2002-December 2003: Research fellowship with the Statistical Mechanics and Complexity Center of INFN

1999-2001: Ph.D. in Physics at the University “La Sapienza” of Rome.

Grants

September 2008 -: coordinator of a FIRB-IDEAS project (1.2MEuro for 5 years)

January - December 2006: Marie-Curie European Re-Integration Grant (~24000 E.) for the project “Non-equilibrium statistical mechanics of granular materials”

Publications: \sim 1100 citations, H index 20 (ISI 2012), \sim 80 publications on international peer-reviewed journals (PNAS, Phys. Rep., Phys. Rev. Lett., Europhys. Lett., Phys. Rev. E, J. Stat. Mech., J. Stat. Phys., Physica D, etc.)

Organised international conferences:

September 2010: “Anomalous Transport: from Billiards to Nanosystems” (Sperlonga, Italy; \sim 50 participants)

June 2012: “Non-equilibrium fluctuation-response relations” (Giglio, Italy; \sim 50 participants)

June 2012: “Quasi-fluids and quasi-solids: the dynamics of active and granular matter” (Parma, Italy; \sim 70 participants)

Talks and presentations: \sim 25 talks given at national and international conferences.

Known languages: Italian, English, French

Teaching experiences

I have been supervisor of the master and Ph.D. thesis work of students at the Department of Physics of the University La Sapienza of Rome (Italy) and at the Paris-Sud University.

April - May 2012: Course for undergraduates on stochastic processes (Univ. Sapienza)

May 2012 and May 2010: Lectures on granular fluids for the Ph. D. course in physics (Univ. Sapienza)

October - December 2002 Assistance to the Laboratory of Programming and Numerical Computation for the 1st year graduating students in Mathematics, in the Mathematics Department of the University “La Sapienza” of Rome.

October 2001 Assistance to the Calculus Course for the 1st year graduating students (in Natural Sciences) in the Mathematics Department of the University “La Sapienza” of Rome.

March-June 2001 Assistance in the course of “Probability calculus” for the 1st year graduating students, in the Mathematics Department of the University “La Sapienza” of Rome.

September 2000 Twenty hours of basic mathematics lessons held in the University "La Sapienza" of Rome, during the Preparation Courses for freshmen undergraduates.