

Current position: Full Professor in Probability and Statistics at University of L'Aquila.

Previous positions: (all at the University of L'Aquila): assistant researcher in Mathematical Physics 1981-1987, Associate Professor in Mathematical Physics: 1987-2000. Full Professor since 2000.

Education and training:

- Laurea in Matematica cum laude (1977),
- CNR-scholarship in mathematical physics (1977-1980),
- Pos-tdoc at Rutgers University with Prof. J. Lebowitz (1983-1985): I received an award from Cnr-Nato for the activity done at Rutgers in these years.

Research track -record:

- I am author and coauthor of 63 peer-reviewed articles in major international journals
- In addition, I have published:
- 2 contributions in books: "Spin systems with long range interactions" (A. De Masi) and "A survey of the hydrodynamical behavior of many particle systems" (A. De Masi, N. Ianiro, A. Pellegrinotti, E. Presutti)
 - 1 monograph in Lecture Notes in Mathematics: "*Mathematical methods for hydrodynamical limits*" (A. De Masi, E. Presutti)
 - 1 monograph in Springer Briefs in Mathematical Physics: "Free boundary problems in PDEs and particle systems" (G. Carinci, A. De Masi, C. Giardinà, E. Presutti),
 - 5 articles published in peer-reviewed proceedings of international conferences.

Awards:

- 2008 IMS (Institute of Mathematics Statistics) Medallion Lecture
- Prize 1996 from Institut Henri Poincaré to the paper "Brownian fluctuations of the interface in the $d=1$ Ginzburg-Landau equation with noise", in collaboration with S. Brassesco and E. Presutti, published in Annales de l'Institut Henri Poincaré, Section "Probabilités et Statistiques".

Activities as coordinator of researches:

- Coordinator at University of L'Aquila of the phd programs: "Mathematics and Models" (2013- present) and "Mathematics" (2003 -2012).

Grants:

Associate investigator of research unit at University of L'Aquila of the researches projects: "Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale" PRIN 1994, PRIN 1998, PRIN 2000, PRIN 2002, PRIN 2004, PRIN 2007 and PRIN 2009.

Editorial activities and professional counseling:

- I am in the scientific advisory board of the journal "Mathematics and Mechanics of Complex Systems"
- I have been in the editorial board of Journal Statistical Physics 1991-1993.
- Referee activity for several international journals.
- Referee of some NSF projects.
- I have been in the scientific committee of the project France-Italy, GREFI MEFI financed by CNRS, INdAM and embassy of France.

- I served panels of of the Deutsche Forschungsgemeinschaft (DFG) German Research Foundation.

Organization of conferences:

I have organized and co-organized several workshops and international conferences in different places. The most recent are:

- 2009: member of the scientific committee of 33rd Conference on Stochastic Processes and their Applications, Berlin July 2009
- 2013: in the scientific committee of the XVII-th Brazilian school of Probability
- 2014: session organizer of the 37th Conference on Stochastic Processes and their Applications, Buenos Aires, 2014
- 2014: in the organizing scientific committee of "Blow-up solutions of the Navier-Stokes equation and the Renormalization Group", GSSI-L'Aquila. This conference has been organized following Abel prize 2014 of Prof. Y. Sinai who besides participating to the meeting has been the principal organizer of the conference.
- 2016: in the organizing scientific committee of the session "Probability and Statistical Mechanics" in the first Joint Meeting Brazil - Italy in Mathematics IMPA, Rio de Janeiro 2016
- 2018 I have organized the session on "Diffusion in simple and multi-component fluids" in the conference "Inhomogeneous Random Systems" Institut Henri Poincaré –Paris, January 2018.
- 2018/19 in the organizing scientific committee of of the XXIII-th Brazilian school of Probability.

Visiting professor: (2012-2018):

- Center for Interdisciplinary Research, ZIF, Bielefeld (Germany), July 2012
- Departamento de Matemática, Universidad de Buenos Aires, August 2012
- University Paris Descartes (Paris), September 2013.
- Technion – Israel Institute of Technology, Haifa (Israel), December 2013.
- Département de Mathématiques, Faculté des Sciences et Techniques, Université de Cergy-Pontoise (France), November 2014.
- Institute Henri Poincaré (Paris) February-March 2015 (in occasion of the trimester on "Disordered systems, random spatial processes and some applications").
- Institute Henri Poincaré (Paris), June 2017 (in occasion of the trimester on "Stochastic dynamics out of equilibrium").

Invited speaker:

I have been invited speaker at many conferences, some of them are:

- plenary speaker at the 40th conference on Stochastic Processes and their Applications to be held in Gotenborg, June 2018.

Ministero dell'Istruzione dell'Università e della Ricerca
MIUR - BANDO 2017 - 11 -

- "Stochastic dynamics out of equilibrium", 'Institute Henry Poincare', Paris, June 2017,
- "Non-equilibrium: Physics, Stochastic and Dynamical Systems", at CIRM, Marseille, January 2016,
- X International Conference "Stochastic and Analytic Methods in Mathematical Physics", Yerevan, September 2016
- "Interplay of Analysis and Probability in Applied Mathematics" Oberwolfach, July-August 2015
- "Processes with variable memories in probability and statistical mechanics", Université de Créteil, Paris, 2014

- 111-th Statistical Mechanics Conference, Rutgers University (Usa) May 2014
- "Dynamical and disordered systems" at CIRM, Marseille, February 2013
- "Kinetic description of multi-scale phenomena", Heraklion (Greece), June 2013
- "Discrete Random Structures, Representation Theory and Interacting Particle Systems", Bielefeld University (Germany) July 2012.
- Plenary speaker at the XVI-th Brazilian school of Probability, Recife (Brasil) August 2012
- XVI-th International congress of Mathematical Physics, Prague, August 2009.
- XI-th International congress of Mathematical Physics, Unesco-Sorbonne, Paris 1995.

Invited courses and summer schools:

I have given courses in several institutions as:

- course at the conference: Particle Systems and PDE's VII, november 2018
- course for phd students at Gran Sasso Science Institute January 2016,
- course at the Institute H. Poincaré (Paris) March 2015,
- course at the "Rencontres de Probabilites a Rouen", September 2013
- course at the CIMP summer school "From Classical to Modern Probability", (the lectures notes of the course have been published in the 2003 volume of the series "Progress in Probability" Birkhauser)
- course for phd at IMPA (Rio de Janeiro) 2001.

-

PREVIOUS YEARS.

- I have co-organized many international workshop and conferences.
- I have been invited professor in many universities and institutions as: Rutgers University, Max-Planck Institute, Leipzig: July 2007, September 2005, October 2004, Laboratoire de Physique Theorique et Modelisation, Universite de Cergy-Pontoise, (France), Instituto de Matematica Pura e Aplicada, IMPA (Brasil) 2001 and in other occasions. Centre de Physique Theorique, Marseille (France): May 2001. Institute des Hautes Etudes Scientifiques, IHES (France) March-April 2000, and also in previous years. Among the visits previous the 2000 there are: ETH- Zurich and Institut für Mathematik Universität Zürich, Isaac Newton Institute for Mathematical Sciences, Cambridge, (England), Institute for Theoretical Physics, University of Santa Barbara (Usa). L' Ecole Polytechnique (France) Universidade de Sao Paulo (Brasil) and l'Institute for Mathematics and its Applications, University of Minnesota.
- I have been invited speaker in many conferences as: XVI-th International Congress of Mathematical Physics, (Prague) August 2009. Conference on Phase Transitions Max Planck Institute (Leipzig), October 2008. Conference "Mathematical Physics, Statistical Mechanics and Foundations of Quantum Mechanics" Rutgers University (Usa), October 2007, many Oberwolfach meetings, meeting on "Statistical Mechanics and Probability Theory" at CIRM di Marseille, March 2003. Conference "New trends in Statistical Mechanics", Certosa di Pontignano (Italy) May 2000. Workshop "Particle systems, random media and large deviations" Institute für Angewandte und Stochastik, Berlino (Germany). XI-th International Congress of Mathematical Physics, Unesco-Sorbonne. Conference "Mechanical response of materials from Angstroms.