Dipartimento di Scienze Statistiche
Sapienza, Università di Roma
P.le Aldo Moro, 5 00185, Roma - Italy

Bruno Toaldo

Scientific Curriculum Vitae

Current Position

November 2010 – present — **Ph.D. Student in Methodological Statistics**, *Department of Statistical Sciences, Sapienza - University of Rome,* Italy, *Supervisor:* Enzo Orsinger.
Research branch: Probability and Mathematical Statistics (MAT/06).

Research

Major fields of study

o Time-changed processes and pseudoprocesses and related PDEs of fractional and integer order.

o Fractional and anomalous diffusions and their relationships with PDEs of fractional and integer order.

o Diffusions on fractals.

o Stochastic processes and random variables related to hyperbolic geometry.

Referee for

o International Journal of Modern Theoretical Physics

Publications

Published

o E. Orsinger & **B. Toaldo**, Shooting randomly against a line in euclidean and non-euclidean spaces, *To appear in Stochastics.* Online since 19 Feb 2013.

Preprints

o E. Orsinger & **B. Toaldo**, Pseudoprocesses related to space-fractional higher-order heat-type equations, *Submitted,* arXiv:1305.6409

o E. Orsinger & **B. Toaldo**, Even-order pseudoprocesses on a circle and related Poisson kernels, *Submitted,* arXiv:1212.5786

o E. Orsinger & **B. Toaldo**, Space-time fractional equations and the related stable processes at random time, *Submitted,* arXiv:1207.3284

o M. D'Ovidio, E. Orsinger & **B. Toaldo**, Time-changed processes governed by space-time fractional telegraph equations, *Submitted,* arXiv:1206.2511

o M. D'Ovidio, E. Orsinger & **B. Toaldo**, *Space-fractional operator and higher-order time derivative related to subordinated Bessel processes,* Technical Report num 15, Agosto 2011, Department of Statistical Sciences, Sapienza - University of Rome, Italy.

In preparation

o M. D'Ovidio & **B. Toaldo**, Fractional power operators and their higher-order counterparts related to subordinated euclidean and hyperbolic random distances.

Talks & Posters

Talks

o *Time-changed processes and fractional PDEs.* XXXVII Summer School on Mathematical Physics, Ravello - September 17-29 2012.

Posters

o *Shooting randomly against a line in euclidean and non-euclidean spaces.* Biocomp 2012 - Mathematical Modeling and Computational Topics in Biosciences. June 4-8 2012, Vietri sul mare - Salerno.

Summer Schools

o XXXVII Summer School on Mathematical Physics (Ravello - September 17 - 29, 2012).

Publications in other fields

o P. Palazzo, C. Balucani, K. Barlinn, G. Tsivgoulis, Y. Zhang, L. Zhao, J. DeWolfe, **B. Toaldo**, E. Stamboulis, F. Vernieri, P.M. Rossini, and A.V. Alexandrov, *Association of reversed Robin Hood syndrome with risk of stroke recurrence*, Neurology, November 30, 2010 75:2003-2008.

Teaching

2012/2013 Assistant for the following courses:

o Mathematics II, (MAT/05), Prof.ssa Silvia Mazzone, Department of Statistical Sciences, Sapienza - University of Rome.

o Mathematics II, (MAT/05), Prof. Dario Sacchetti, Department of Statistical Sciences, Sapienza - University of Rome.

o Probability I, (MAT/06), Prof. Enzo Orsingher, Facoltà di Ingegneria dell'Informazione, Informatica e Statistica (Corso di Laurea in Ingegneria Elettronica), Sapienza - University of Rome.

o Mathematics I, (MAT/03), Prof. Enrico Casadio Tarabusi, Department of Statistical Sciences, Sapienza - University of Rome.

o Mathematics I, (MAT/03), Prof. Roberto Pignoni, Department of Statistical Sciences, Sapienza - University of Rome.

2011/2012 Assistant for the following courses:

o Mathematics II, (MAT/05), Prof.ssa Silvia Mazzone, Department of Statistical Sciences, Sapienza - University of Rome.

o Mathematics II, (MAT/05), Prof. Dario Sacchetti, Department of Statistical Sciences, Sapienza - University of Rome.

o Mathematics I, (MAT/03), Prof. Enrico Casadio Tarabusi, Department of Statistical Sciences, Sapienza - University of Rome.

o Mathematics I, (MAT/03), Prof. Roberto Pignoni, Department of Statistical Sciences, Sapienza - University of Rome.

o Mathematics III, (MAT/05), Prof. Attilio Le Donne, Department of Statistical Sciences, Sapienza - University of Rome.

o Mathematics III, (MAT/05), Prof. Paolo Papi, Department of Statistical Sciences, Sapienza - University of Rome.

Education

October 2009–April 2010
Research project: Extents and determinants of Panel Attrition in the EU-SILC, *Istituto Nazionale di Statistica (ISTAT)*, Via Adolfo Ravà, 150, Rome, Italy.
Supervisor: Lucia Coppola (ISTAT).

April 2010
Master's Degree in Statistical, Economic and Actuarial Sciences, *Università Cattolica del Sacro Cuore*, Milan, Italy, *Grade: 109/110*.
Supervisor: Alessandro Rosina (Sez. di Demografia e statistica sociale). Title of Dissertation: Extents and determinants of attrition in the EU-SILC (in italian).

October 2007
Bachelor's Degree in Economic and Social Sciences, *Università Commerciale Luigi Bocconi*, Milan, Italy.
Supervisor: Renata Targetti Lenti. Title of Dissertation: Libertà, democrazia e sviluppo nel pensiero di Amartya Sen. Published online on:
http://www.csspd.it/index.php?method=section&action=zoom&id=969.

Languages

English	**Level B2**	*Listening, Speaking, Reading and Writing*
French	**Level B1**	*Listening, Speaking, Reading and Writing*
Italian	**Fluent**	*My native language*

Computer skills

OS	Linux, Windows.
Scientific	R, Axiom, Matlab, SPSS, SAS, GIS.
Office	LaTeX, Office.
Programming Languages	R, SQL, html.

References

Enzo Orsingher - enzo.orsingher@uniroma1.it
Mirko D'Ovidio - mirko.dovidio@uniroma1.it