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SEMINARS AND INVITED LECTURES

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Current position

Full Professor of Probability (MAT/06)
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Known languages

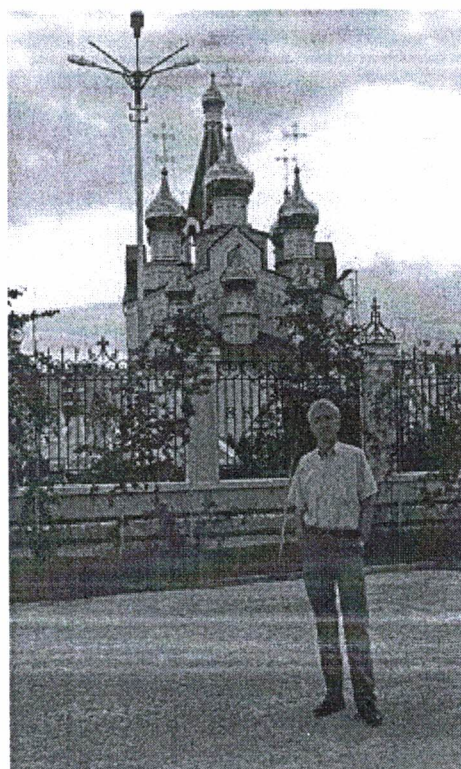
Fluent in English, French, Russian.

Scientific interests

Random motions, Random fields, Pseudo-processes governed by heat-type equations, Fractional calculus and fractional differential equations.

Recent scientific curiosities

Diffusions with branching, Motions in non-euclidean spaces



Ph.D Students

Luisa Beghin, Samantha Leorato, Alessandro De Gregorio, Pierpaolo Ferrante, Valentina Cammarota, Federico Polito, Mirko D'Ovidio, Bruno Toaldo, Costantino Ricciuti, Roberto Garra

Quotations

- MathSciNet
- Google Scholar
- Scholar Citations
- arXiv
- Scopus

Books

Probabilità e modelli aleatori. Enzo Orsingher, Luisa Beghin. ARACNE editrice 2006, Roma.
Introduzione alla probabilità. Enzo Orsingher, Luisa Beghin. Carocci editore 2009,

Publications on Scientific International Journals

ACCEPTED PAPERS

1. Random flights related to the Euler-Poisson-Darboux equation (with R. Garra) *Markov Processes and Related Fields* 22, 87-110 (2016). [VIEW PAPER](#)
2. Space-time fractional equations and the related stable processes at random time (2013) (with B. Toaldo) *Journal of theoretical probability*,
First online: 25 September 2015, 10.1007/s10959-015-0641-9, Published in Volume 30, pages 1-26 (2017) [VIEW PAPER](#)
3. Motion among random obstacles on a hyperbolic space (with C. Ricciuti and F. Sisti) 162:869–886 *Journal of Statistical Physics* (2016), [VIEW PAPER](#)
4. Spectral functions related to some fractional stochastic differential equations (with M.D'Ovidio and L.Sakhno) (2016) Vol.21 n.18 *Electronic Communications in Probability*, [VIEW PAPER](#)
5. Population processes sampled at random times (with L.Beghin) *Journal of Statistical Physics* (2016), [VIEW PAPER](#)
6. Time-inhomogeneous jump processes and variable order operators (2016) (with C.Ricciuti and B.Toaldo). *Potential Analysis*, 45(3): 435 - 461, 2016. [VIEW PAPER](#)
7. Fractional spherical random fields.(with D'Ovidio and Leonenko) (2016), *Statistics & Probability Letters*, Vol. 116, 146–156 [VIEW PAPER](#)

SUBMITTED PAPER

1. Random motions with space-varying velocities (with R. Garra) 2016 in press in Volume devoted to Valentin Konakov
2. On semi-Markov processes and their Kolmogorov's integro-differential equations (with C. Ricciuti and B. Toaldo) (2017)
3. Garra, Roberto; Orsingher, Enzo; Scavino, Marco; Some probabilistic properties of fractional point processes. *Stoch. Anal. Appl.* 35 (2017)
4. Kelbert, Mark; Orsingher, Enzo Asymptotic behaviour of non-isotropic random walks with heavy tails. *Mod. Stoch. Theory Appl.* 4 (2017)
5. Planar piecewise linear random motions with jumps; R. Garra, E. Orsingher, N. Ratanov. *Mathematical Methods in Applied Sciences* (2017)
6. Random flights connecting Porous Medium and Euler-Poisson-Darboux equations, with A. De Gregorio, submitted for publication.
7. Some results on the generalized Brownian meander, with F. lafrate

1. Population models at stochastic times (2014) (with C. Ricciuti and B. Toaldo) *Advances in Applied Probability*, 48(2): 481 - 498, 2016. [VIEW PAPER](#)
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3. State-dependent Fractional Point Processes (with R. Garra and F. Polito), *Journal of Applied Probability*, 2015, Vol. 52 (1) , 18-36. [VIEW PAPER](#)
4. Fractional Klein-Gordon equation for linear dispersive phenomena: analytical methods and applications (2013) (with R. Garra and F. Polito), *IEEE Xplore*, 1-6, [10.1109/ICFDA.2014.6967381](#)
5. Even-order pseudoprocesses on a circle and related Poisson kernels (with B. Toaldo). *Stochastics*, 87(4), 664-679, (2015). [VIEW PAPER](#)
6. Analytical solutions of space-time telegraph-type equations involving Hilfer and Hadamard fractional derivatives (2015) (with Ram Saxena and R. Garra). *Integral transform and special functions*, 27(1): 30 - 42, 2015. [VIEW PAPER](#)
7. Reflecting Random Flights. *Journal of Statistical Physics*, 160(6), 1483-1506, (2015). (with A. De Gregorio) [VIEW PAPER](#)
8. Fractional diffusions with time-varying coefficients (with R. Garra and F. Polito) (2015) *Journal of Mathematical Physics*, 56, 093301 (2015); [VIEW PAPER](#)
9. Time-changed processes governed by space-time fractional telegraph equations (2012) (with B. Toaldo and M. D'Ovidio). *Stochastic Analysis and Applications*, 32(6): 1009 - 1045, 2014. [VIEW PAPER](#)
10. Higher-order Laplace equations and Hyper-Cauchy distributions (with M. D'Ovidio), *Journal of Theoretical Probability*, 28: 92 - 118, 2015. [VIEW PAPER](#)
11. Random flights governd by Klein-Gordon-type partial differential equations (2014) (with R. Garra). {it Stochastic Processes and their Applications}, Vol 124, 2171 - 2187. [VIEW PAPER](#)
12. Fractional telegraph-type equations and hyperbolic Brownian motion (2013) (with M. D'Ovidio and B. Toaldo). *Statistics and Probability Letters*, 89: 131 - 137, 2014. [VIEW PAPER](#)
13. Fractional Klein-Gordon equations and related stochastic processes (2014) (with R. Garra and F. Polito). {it Journal of Statistical Physics}, Vol. 155, 777-809. [VIEW PAPER](#)
14. Pseudoprocesses related to space-fractional higher-order heat-type equations (with B. Toaldo). *Stochastic Analysis and Applications*, 32(4): 619 - 641, 2014. [VIEW PAPER](#)
15. Shooting randomly against a line in euclidean and non-euclidean spaces (with B. Toaldo) (2012), *Stochastics*, Vol 86, No.1, 16 - 45. [VIEW PAPER](#)
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17. On the Integral of Fractional Poisson Processes (2013) (with F. Polito) *Statistics & Probability Letters* Vol.83 (4) pag.1006-1017. [VIEW PAPER](#)
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25. Vibrations and fractional vibrations of rods, plates and Fresnel pseudoprocesses (with M.D'Ovidio) (2011). *Journal of Statistical Physics* Vol. 145, pag. 143 - 174. Published online: 01 September 2011. [VIEW PAPER](#)
26. Composition of processes and related partial differential equations (2009) (with M.D'Ovidio). *Journal of theoretical probability* (2011) Vol.24 pag.342-375. Published on line 21st April 2010. [VIEW PAPER](#)
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53. - The distribution of the local time for "pseudoprocesses" and its connection with fractional diffusion equations (with L.Beghin), *Stochastic Processes and their Applications*, v.115, n.6 (2005), pp.

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65. - How sojourn time distributions of Brownian motion are affected by different forms of conditioning (with L.Beghin and Y.Nikitin), *Statistics and Probability Letters* (2003) Vol.65 n.4, pp 291-302. [VIEW PAPER](#)
66. - Planar random motions with drift (with N.Ratanov), *Journal of Applied Mathematics and Stochastic Analysis* (2002), Vol.15, n.3, pp.205-221. [VIEW PAPER](#)
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71. - Conditional maximal distributions of processes related to higher-order heat-type equations (with L.Beghin, K.Hochberg). *Stochastic Processes and their Applications* (2000), 85, pp.209-223. [VIEW PAPER](#)
72. - The intermediate arc-sine law (with Y.Nikitin), *Statistics and Probability Letters* (2000), 49, pp.119-125. [VIEW PAPER](#)
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83. - General solution of an hyperbolic equation emerging in the study of a motion with random acceleration (with A.Glusak) (in Russian). *Probability Theory and Mathematical Statistics* (1996), Vol.55, pp.50-54.
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93. - On the solution of a telegraph-type equation with non-constant coefficients emerging in random evolutions. (with M. Kelbert). *Problems of Information Trasmission* (1994), Vol.30, pp.99-103 (in Russian).
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