MICHAIL LOULAKIS

Date/place of birth	1st January, 1973, Athens, Greece
Affiliation	School of Applied Mathematical & Physical Sciences
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Current position	Associate Professor
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Fields of interest	Probability Theory; Stochastic processes; Interacting Particle Systems; Large Deviations

EDUCATION

2001	PhD in Mathematics, Courant Institute, New York University
1998	MSc in Mathematics, Courant Institute, New York University
1995	Diploma in Electrical Engineering, National Technical University of Athens

ACADEMIC POSITIONS

since 2017	Affiliated Faculty, Foundation for Research and Technology, Hellas (FORTH)
since 2015	Associate Professor, National Technical University of Athens
2011 – 2015	Assistant Professor, National Technical University of Athens
2005 – 2011	Assistant Professor, University of Crete
2002 – 2005	Marie Curie Post-Doctoral Fellow, University of Cambridge
2001 – 2002	Post-Doctoral Research Assistant, Forshungsinstitut für Mathematik, ETH Zürich

AWARDS & GRANTS

2018 – 2020	Member of the *Competitiveness-Enterpreneurship-Innovation* Research Project MIS 5031822, "Photonic Analysis of Biometric Photoabsorption on the retina".
2012 – 2015	Member of the *Thales* Research Project MIS377291, "Analysis Modeling and Simulation of Complex and Stochastic Systems".
2012 – 2015	Member of the *Thales* Research Project MIS 377289, "Optimal Management of Dynamical Systems of the Economy and the Environment".
2013 – 2015	Member of the *Excellence* Research Project 1082, "Analytical and probabilistic methods in Banach spaces and their operators".
2012 – 2013	Greek scientific co-ordinator of the IKYDA Project 54718970, "Stochastic Analysis in Finance and Physics".
2010 – 2013	Scientific co-ordinator of the Heraclitus II Project UoC14222, "Interacting particle models for condensation".
2005 – 2007	Marie Curie reintegration grant FP6-MOBILITY-16163, "Motion of Tracers in Random Environment and the Einstein Relation".
2002 – 2005	Marie Curie Post-Doctoral Fellowship HPMF-CT-2002-01610, "Tracer particle and coagulation in simple exclusion models".

Supervision of PhD students

2010 – 2014   M.G. Stamatakis "Interacting Particle models for condensation", Univ. of Crete

Selected Talks

07/2018	IMS Annual Meeting on Probability and Statistics, Vilnius.
02/2018	Interplay of Analysis and Probability in Applied Mathematics, Mathematisches Forschungsinstitut Oberwolfach.
08/2016	In Honor of S.R.S. Varadhan 75th birthday, Weierstrass Institute, Berlin.
07/2014	37th Conference in Stochastic Processes and their Applications, Buenos Aires.
01/2014	Inhomogeneous Random Systems, Institut Henri Poincaré, Paris.
11/2010	Large Scale Stochastic Dynamics, Mathematisches Forschungsinstitut Oberwolfach.
08/2007	Large Scale Stochastic Dynamics, Mathematisches Forschungsinstitut Oberwolfach.

Further activities (selection)

since 2016	Associate editor for the Bulletin of the Hellenic Mathematical Society
since 2014	Reviewer for EPSRC UK
08/2014	organiser of a contributed session in 37th SPA Congress
since 2012	co-organiser of the annual Athens Probability Colloquium
since 2002	Referee for Journal of Functional Analysis, Annals of Probability, Annals of Applied Probability, Probability Theory and Related Fields et al.

Selected Publications

[1] G.T. Kossioris, M. Loulakis, P.E. Souganidis. The Deterministic and Stochastic Shallow Lake Problem. To appear, Special Volume in honor of S.R.S. Varadhan's 75th birthday (2019).

[2] C. Landim, M. Loulakis, M. Mourragui. Metastable Markov Chains: From the convergence of the trace to the convergence of finite-dimensional distributions. Electron J Probab 23, no. 95, 1–34 (2018).

[3] M. Loulakis, G. Blatsios, C.S. Vrettou, I.K. Kominis. Quantum Biometrics with Retinal Photon Counting. Phys Rev Applied 8, 044012 (2017).

[4] D. Cheliotis, I. Kontoyiannis, M. Loulakis, S. Toumpis. Exact Speed and Transmission Cost in a Simple One-Dimensional Wireless Delay-Tolerant Network. IEEE ISIT, 476–480 (2017).

[5] I. Armendáriz, S. Grosskinsky, M. Loulakis. Metastability in a condensing zero-range process in the thermodynamic limit. Probab Th Rel Fields 169, no. 1-2, 105 – 175 (2017).

[6] I. Armendáriz, S. Grosskinsky, M. Loulakis. Zero-Range condensation at criticality. Stoch Proc Appl 123, no. 9, 3466–3496 (2013).

[7] I. Armendáriz, M. Loulakis. Conditional distribution of heavy tailed random variables on large deviations of their sum. Stoch Proc Appl 121, no. 5, 1138 –1147 (2011).

[8] I. Armendáriz, M. Loulakis. Thermodynamic limit for the invariant measures in supercritical zero-range processes. Probab Th Rel Fields 145, no. 1-2, 175 –188 (2009).

[9] M. Loulakis. Mobility and Einstein Relation for a tagged particle in asymmetric mean-zero random walk with simple exclusion Ann. Inst. H. Poincaré, Probab & Statist, 41, no. 2, 237–254 (2005).

[10] M. Loulakis. Einstein Relation for a Tagged Particle in Simple Exclusion Processes. Comm Math Phys 229, no. 2, 347 − 367 (2002).