

Personal informations

Surname	de Loynes
First name	Basile
Address	Institut de Recherches Mathématiques Avancées Université de Strasbourg 7, rue René Descartes 67 084 Strasbourg Cedex, France
Email	deloynes@unistra.fr
Web	https://basiledeloynes.fr
Nationality	French
Date of birth	06.06.1984

Professional positions

2014-2016	Temporary Assistant Professor in the mathematics department at the University of Strasbourg
2013-2014	ATER (temporary teaching assistant position) in the mathematics department at the University of Bourgogne
2012-2013	Post-doc position, under the supervision of Michel Benaïm, University of Neuchâtel, Swiss
2011-2012	ATER (temporary teaching assistant position) in the mathematics department at the University of Rennes 1
2008-2011	Trainer in the mathematics department at the University of Rennes 1

Academic education

2008-2012	Ph.D Thesis, <i>Random walks and directed graphs</i> , under the supervision of Dimitri Pétritis, University of Rennes 1, I.R.M.A.R. (defence on the 6th July 2012).
2008	Master 2 in <i>Mathematics, specialized in Probability and dynamical systems</i> , (equivalent to Master's degree), University of Rennes 1, with honours .
2007	Master 1 in <i>Mathematics</i> , (equivalent to Four-year university degree), University of Rennes 1.
2007	Licence in <i>Computer Science</i> , (equivalent to Bachelor's degree), University of Rennes 1.
2006	Work on <i>Random walks in random environment</i> , supervised by J.B. Bardet, University of Rennes 1.
2003-2005	Licence in <i>Mathematics</i> , (equivalent to Bachelor's degree), University of Rennes 1, with honours .

Articles, Preprints

- 2011 Published, *Marches aléatoires sur un di-graphe et frontière de Martin*, C. R. Acad. Sci. Paris, Ser. I 350 (2012) 87–90, [C.R.A.S.](#), [Arxiv](#).
- 2011 arXiv, *Random walks on a directed graph and Martin boundary*, [Arxiv](#).
- 2015 **Accepted**, *Random walks on graphs induced by aperiodic tilings*, Markov Processes & Related Fields, [hal](#).
- 2015 Preprint, *Persistent Random Walks I : recurrence versus transience*, with P. Cénac, A. Le Ny et Y. Offret, [hal](#).
Revised for *Journal of Theoretical Probability*.
- 2016 Preprint, *The type problem for inhomogeneous random walks : a series criterion by a probabilistic argument*, [hal](#).
Submitted to *Electronic Journal of Probability*

Papers in progress

- Two-dimensional persistent random walks : recurrence versus transience*, with P. Cénac, A. Le Ny et Y. Offret
- Martin boundary for irregular Markov additive processes*
- Persistent random walks II : scaling limits*, with Peggy Cénac, A. Le Ny et Yoann Offret.
- Generalized fluctuating Brownian functional : irreducibility, scaling limit and winding number*, with M. Benaïm et Y. Offret.

Communications

- 2016 Talk, *Persistent random walks*, Nancy (IECL).
- 2015 Talks, *Persistent random walks*, Strasbourg (IRMA), Versailles (LMV), Amiens (LAMFA).
- 2014 Talk, *random walks on graphs induced by aperiodic tilings*, Amiens (LAMFA).
- 2013 Workshop, *Long memory processes in probability, statistical mechanics and applications to neuroscience*, Cergy-Pontoise.
- 2013 Talk, *Random walk with random transition probabilities*, Dijon (IMB)
- 2013 Talk, *Random walk with random transition probabilities, asymptotic entropy*, Neuchâtel.
- 2012 Talk, *Introduction to the Martin boundary*, Neuchâtel.
- 2012 Talk, *Random walks on graphs induced by aperiodic tilings*, Rennes (IRMAR).
- 2012 Workshop, *Bi-annual workshop of young probabilists et statisticians*, Marseille (CIRM).

Workshop and conferences without communications

2016	Workshop, <i>Frontiers in Analysis and Probability (III)</i> , Strasbourg.
2015	Workshop, <i>Frontiers in Analysis and Probability (I)</i> , Strasbourg.
2014	Workshop, <i>Long memory processes in probability, statistical mechanics and applications to neuroscience</i> , Créteil.
2013	Workshop, <i>Hitting times and exit problems for stochastic models</i> , Dijon
2013	Workshop, <i>Seminar of Probability</i> , Bern (Suisse)
2010	Workshop, <i>Stochastic properties of dynamical systems and random walks</i> , organized by UBO, Roscoff (France).
2009	Workshop, <i>Operator algebras, groups and geometry</i> , CIRM, Marseille (France).
2008	Summer school, <i>Summer school on dynamical systems and thermodynamical theory</i> , Georg-August-Universität, Göttingen (Allemagne).

Foreign languages

| French (mother tongue), English (reading, writing, listening, speaking), German (reading).

Mastering of the following software

| Maple, Scilab, Matlab, R, LaTeX, Caml, C, Java, Python.