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### Professional experience

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since oct 2009 CNRS permanent reasearcher, laboratoire Jacques-Louis Lions, university Paris 6  
2007-2009 Teaching fellow, Département de mathématiques et applications, École normale supérieure de Paris

### Education

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2006-2008 PhD thesis under the supervision of Henri Berestycki (EHESS Paris) and François Hamel (university Aix-Marseille 3), defended on 28 november 2008  
Title : Equations de réaction-diffusion et propagation en milieu hétérogène  
Jury : H. Berestycki, F. Hamel, E. Grenier, B. Perthame, J.-M. Roquejoffre, L. Saint-Raymond, V. Volpert, J. Xin  
2004-2006 Master 2 Mathématiques de la modélisation, university Paris 6  
2003-2004 Licence and Master 1 in mathematics, École normale supérieure de Paris  
2003-2007 Student at the École normale supérieure de Paris

### Publications

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14. Can a traveling wave connect two unstable states? The case of the nonlocal Fisher equation, submitted (with B. Perthame and M. Tang), submitted
13. Spreading properties for the Fisher-KPP equation with oscillating initial data (with F. Hamel) , submitted
12. A viscosity solution method for the spreading speed formula in slowly varying media (with F. Hamel, L. Roques), submitted
11. Some dependence results between the spreading speed and the coefficients of the space-time periodic Fisher-KPP equation, to appear in Eur. J. Appl. Math.
10. Existence and uniqueness of the solutions of a space-time periodic reaction-diffusion equation, to appear in J. Diff. Eq.
9. The effect of the Schwarz rearrangement on the periodic principal eigenvalue of a nonsymmetric operator, SIAM J. Math. Anal. 4 (2010), pp. 2388–2406
7. The non-local Fisher-KPP equation: traveling waves and steady states (with H. Berestycki, B. Perthame, L. Ryzhik), Nonlinearity 22 (2009), pp 2813–2844
6. Traveling fronts in space-time periodic media, J. Math. Pures Appl. 92 (2009), pp 232–262
5. The principal eigenvalue of a space-time periodic parabolic operator, Ann. Mat. Pura Appl. (4) 188 (2009), pp 269-295
4. Asymptotic spreading in heterogeneous diffusive excitable media (with H. Berestycki and F. Hamel), Journal of Functional Analysis 255 (2008), pp 2146-2189
3. Traveling waves for the Keller-Segel system with Fisher birth terms (with B. Perthame and L. Ryzhik), Interface free bound. 10 (2008), pp 517-538
2. Pulsating traveling fronts in space-time periodic media, C.R. Acad. Sci. Paris I 346 (2008), pp 951-956
1. Reaction-diffusion equations in space-time periodic media, C.R. Acad. Sci. Paris I 345 (2007), pp 489-493

## Oral communications

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25 jan 2011 Mathematics in life sciences seminary, IMB, Bordeaux, France  
22 nov 2010 Workshop Evolutionary dynamics of structured populations, Cambridge, UK.  
25-28 may 2010 AIMS Congress, Dresden, Germany  
4 may 2010 PDE seminary, UMPA, Lyon, France  
21-26 march 2010 Workshop « Deterministic and stochastic front propagation », Banff, Canada  
18 dec 2009 Laboratoire Jacques-Louis-Lions 40th birthday, Paris  
11 déc 2009 Laboratoire Jacques-Louis Lions seminary, Paris  
10 nov 2009 Institut für Biomathematik und Biometrie seminary, Munchen, Germany  
2-6 june 2008 2nd French-Canadian congress, PDE session, Montreal, Canada  
28 nov 2007 CAMP/Nonlinear PDE's Seminary, university of Chicago, USA  
5 sept 2007 French-Japanese conference Readilab, Université d'Orsay, France

## Review for scientific journals

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Annales de l'institut Henri Poincaré (C) Analyse non linéaire 1  
Annali di Matematica Pura ed Applicata 1  
Journal of differential equations 2  
Journal of functional analysis 1  
Journal of Physics A: Mathematical and Theoretical 1  
Mathematics of Computation 1  
Nonlinearity 3