

# LEPOUTRE Thomas

Born on 1984/02/02, French citizen  
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## Education

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2007-2009      **PHD in applied mathematics: Analysis and modelling of growth and motion phenomenon from biology** *Université Pierre et Marie Curie Paris (France)*  
*supervisors: J. Clairambault, S. Gaubert and B. Perthame*

2006-2007      **Master 2 (Applied mathematics in life sciences)** *Université Pierre et Marie Curie Paris (France)*

2005            **Second semester (Master 1) at Imperial College London (UK)**

2003-2008      **Student in mathematics at École Normale Supérieure de Lyon (France)**

## Skills

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Languages      English (fluent), French (native) and German (basics) .  
Softwares      Scilab, Matlab, LaTeX, FreeFem++ (basic) and classic Office tools.

## Other experiments

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2009            **Co-organizer of the team seminar** *Project-team BANG (INRIA Rocquencourt)* .

2007-2009      **Teaching assistant** *Université Pierre et Marie Curie Paris (France)* .

2007            **Internship at INRIA Rocquencourt** Control and optimization of Perron and Floquet eigenvalues in cell cycle models (March-August 2007 under supervision of J. Clairambault, S. Gaubert and B. Perthame) .

## Selected communications

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2009            **Conservative cross diffusion and pattern formation through relaxation**  
*Student seminar Cambridge (UK)* .

2009            **Age structured PDEs and circadian rhythms** *Advanced course on mathematical biology (student talks) CRM Barcelona (Spain)* .

2009            **Conservative cross diffusion and pattern formation through relaxation**  
*Laboratoire Jacques Louis Lions, Université Pierre et Marie Curie Paris (France)* .

2009            **Age structured PDEs and circadian rhythms** at *Institut Henri Poincaré Paris (France)* .

## Publications (preprint versions at [www.ann.jussieu.fr](http://www.ann.jussieu.fr))

- [1] M. Bendahmane, T. Lepoutre, A. Marrocco, and B. Perthame. Conservative cross diffusions and pattern formation through relaxation. *Journal de Mathématiques Pures et Appliquées*, 92(6):651 – 667, 2009.
- [2] J. Clairambault, S. Gaubert, and T. Lepoutre. Comparison of perron and floquet eigenvalues in age structured cell division cycle models. *Math. Model. Nat. Phenom.*, 4(3):183–209, 2009.
- [3] M. Doumic, T. Goudon, and T. Lepoutre. Scaling limit of prion dynamics. *Comm. Math. Sci.*, (accepted).