Gaspard Jankowiak

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Research

My main interests in reseach are partial differential equations modelling problems with applications in life sciences and physics, both from theoretical and numerical points of view. I have worked on a model for boson stars with temperature, and I am currently investigating stationary states in a parabolic-parabolic crowd motion model.

Education

2010–now **PhD**, *Ceremade*, Paris.
PDEs with attractive mean field nonlinearities
Supervisor: Pr. J. Dolbeault

2010 **Master's thesis**, *Imperial College*, London.
Large coherent structure in shear layer flows
Supervisor: Pr. X. Wu

2009–2010 **Erasmus exchange**, *Imperial College*, London.
Dynamical systems, ergodic theory, bifurcation theory, hydrodynamic stability, asymptotic analysis

Early 2009 **Research project**, *LJK/INRIA*, Grenoble.
Supervisor: Jakob Verbeek *Image quantization and classification through the use of random decision trees*

2007–2009 **Master's degree**, *Ensimag*, Grenoble.
Various courses in computer science and applied mathematics, both theoretical and numerical. PDEs, Numerical methods

Publications

In prep. *Crowd motion and herding models: multiplicity and dynamical stability of the stationary solutions*, J. Dolbeault, G.J., P. Markowich

Conferences

2012 **Biomat 2012**, *Faculdad de Ciencias*, Grenada, Spain, attended.

2012 **Applieds PDEs for Life Sciences**, *UAC*, Barcelona, Spain, poster.

2010 **Workshop on quantum fluids**, *Newtons Institute*, Cambridge, UK, attended.

2010-12 **Several seminars and PhD students workshops**, Paris, attended.

Teaching

2010-2013 **Tutorial assistant**, *Université Paris Dauphine*.
Linear algebra and numerical optimisation, 2nd and 3rd year.