

Amandine ROBIN, postdoctoral researcher

Research interests

- Image processing, statistical modeling, stochastic optimisation
- Remote sensing data, land-cover monitoring, coarse resolution, time series
- Multi-temporal image analysis, change detection, classification, sub-pixelic analysis
- A-contrario modeling, random sampling algorithm, model selection, robust estimations
- Bayesian modeling, pixel disaggregation, simulated annealing algorithm, error analysis

Education and professional status

- 2007/2008 **Postdoctoral researcher** in collaboration with the **Image and Information Processing** department (National Superior School of Telecommunications, Brest, France) and the **Biophysical and Electronic Engineering** department (University of Genoa, Italy).
Object : **Change detection in long time series of heterogeneous remote sensing data.**
- 2002/2007 **PhD in Applied Mathematics**, Paris-Descartes University
Object : **Sub-pixelic change detection and classification. Application to remote-sensing land-cover monitoring.**
Supervisors : Sylvie Le Hégarat-Masclé (Paris-Sud 11 University), Lionel Moisan (Paris Descartes University)
- 2001/2002 **DEA in Mathematics, Vision, Data learning**
École Normale Supérieure de Cachan (France)
Courses : *Variational methods and PDE in image analysis, wavelet and harmonic analysis, image restoration, image compression, motion analysis, remote sensing, medical imagery.*
- 2000/2001 **MSc. in Mathematics**, Pierre et Marie Curie University, Paris
Courses : *Real analysis, random process, functional analysis, quadratic forms and classic groups.*
- 1994-1997 **School of Architecture**, Versailles (France)

Teaching experience

- 2003/2007 **Paris-Descartes University**, part-time lecturer :
Mathematics and computation, linear algebra, numerical computation
- 2004/2005 **National School of Statistics and Economic Administration (ENSAE)** :
Mathematical analysis
- 2003/2004 **Pierre et Marie Curie University**, part-time lecturer :
Bilinear Algebra
- 2002/2003 **Technological institute, University of Versailles**, part-time lecturer :
Programming in C/C++