

PhD in theoretical computer science

Jean-Baptiste Rouquier

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Born in 1982

Nationality: French
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Work Experience

- 2009– **postdoc**, iscipif.fr on complex networks.
- 2005–2008 **PhD in computer science**, ENS Lyon/IXXI, On the Robustness of Complex Systems. *With honors.*
- 2006–2009 **Teaching assistant**, ENS Lyon, *3rd year Licence, Master*. Algorithms, programming, probabilities. Creation of denif.ens-lyon.fr: online archive of teaching material in theoretical computer science, author of a few lecture notes.
- 2004–2006 **Teaching assistant (algorithms and programming)**, classes préparatoires (Lyon and Paris).
- 2003–2007 Model answers to exams. **Writing, scientific and typographic proofreading**. H&K publishing.

LaTeX instructor, intern advisor, science popularizer (talk, radio, stand, Wikipedia).

My work consists in measuring, modeling and simulating complex systems and complex networks (like social networks), then analysing the data collected, and their evolution.

Education

Studies

- 2004–2005 **Master Parisien de Recherche en Informatique**. Paris, *Ranked 6th/50*.
- 2002–2004 École Normale Supérieure de Lyon. *Admitted 3rd, also admitted to Polytechnique and ENS Ulm.*
- 2000–2002 **Classes préparatoires aux grandes écoles**, lycée Louis le Grand, Paris.
Subjects: mathematics, physics, computer science.
- 2000 **Baccalauréat** (approximately GCSE). *mention Très Bien, félicitations du jury.*
Concours général mention régionale en mathématiques.
- 1989–1999 **Classes à horaires aménagés musique**. These courses included up to 10h music lessons a week.
Guitar, piano, solfège (technical skills like writing a score from a CD), singing, composing.

Research Training

- 2009 **visitor at Santa Fe Institute**, Santa Fe, 2 months.
- 2006 **visitor in a physics laboratory for the study of complex systems**, Göteborg, 1 month.
- 2005 **visitor in a mathematics laboratory**, Berlin, *Probabilistic Cellular Automata*, 1 month.
- 2005 **2nd year Master training**, ENS Lyon. *Robustness and Emergence in Complex Systems*, 5 months.
- 2004 **1st year Master training**, University of Michigan. *Automatic Detection of Coherent Structures*, 2 months.
- 2003 **3rd year university training**, INRIA. *Computer vision: superresolution*, 2 months.

During my PhD I attended two summer schools (complex systems in physics, machine learning), optionnal courses (including social systems modeling) and about 100 talks in various scientific subjects.

Additional skills

Languages

French, English (daily written usage, often spoken with foreign researchers, now working on my accent), German (written comprehension, attended classes for 10 years, could reactivate it in a few months).

Computer science OCaml, LaTeX (local guru), MySQL, Python, Shell, Java, C++, LISP, PHP, Linux.

Miscellaneous

- Attestation de Formation aux Premiers Secours (first aid certificate).
- BAFA (taking care of children during organized holidays). I worked in teams of 8 adults, children aged 8–15.

Interests

- Cards magic (president of the local club for 4 years), juggling and circus arts
- Programming (if algorithmically challenging, e.g.: logic puzzle generator/solver)
- Board games, if requiring strategy and reflexion
- Music: piano and guitar (classical), Photography, Cooking, Do-it-yourself and arts and crafts
- Sports: long-distance running, Alpine and cross-country skiing, ski-touring, badminton, sailing.
- Webmaster for a few small associations, like <http://don.ordi.free.fr> .