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## Work Experience

- 2017– **Senior Data Scientist**, Fujitsu. *Associate distinguished engineer*. Build datasets, models and algorithms for fraud detection, people and vehicle tracking, NLP. Also combinatorial optimisation by quantum annealing.
- 2016–2017 **Senior Data Scientist**, La Mutuelle Générale. Predict the churn, auto classify emails, score the leads. Technical skills: Deep learning, Machine Learning, NLP, SQL, Python.
- 2014–2016 **Senior Data Scientist**, Dataiku. Data cleaning, predictive analytics, training, customer support, documentation, pre-sales. Technical skills: Machine Learning, Python, Big data, Hadoop, Hive.
- 2012–2014 **Software engineer**, Criteo. Improve the accuracy of machine learning algorithms on bigdata, especially by generating, analyzing and selecting new data. Automate the workflow. Technical skills: C# (.Net), Java, Hadoop, Git, Unit testing, Agile
- 2011–2012 **Engineer/Researcher**, Eonos Investment Technologies. Machine learning and finance. Technical skills: OCaml (functionnal programming like F#), Python, R, Linux
- 2009–2011 **Postdoctoral fellow**, INRIA and CNRS, Bordeaux and Paris. Measure, model, simulate complex systems and complex networks (e.g. social networks); analyse the large datasets collected and their dynamic. Publications list: [www.rouquier.org/jb/research/publications.php](http://www.rouquier.org/jb/research/publications.php)
- 2005–2008 **PhD in computer science**, École Normale Supérieure de Lyon, *With honors*.
- 2003–2007 **Writing, scientific and typographic proofreading**, H&K publishing, Model answers to exams.

## Miscellaneous

- Science popularizer: talk, radio, booth, articles,
- Consultant for Veolia: design of a large scale, integrated, generic city model,
- L<sup>A</sup>T<sub>E</sub>X trainer (2 or 3 days sessions, 8 trainees)

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## Skills

Thanks to my successive research and R&D positions, I've learnt to:

- clearly explain abstract concepts to specialists / general audience / students, to one or one hundred people at a time, through formal presentation with slides / written articles / informal conversation,
- quickly learn difficult theoretical topics, with an in-depth understanding,
- work in interdisciplinary and international teams (with physicists, mathematicians, geographers, biologists, software engineers), motivate team members, organize a workshop,
- work autonomously and define the relevant problems to solve, with rigor and creativity.

**Theoretical skills** Data science expert: define the use case, collect data, feature engineering, machine learning, help deployment. Expert in algorithmics (incl. data structures). Proficient in probability, modeling, graphs. General knowledge in theoretical computer science: machine learning (semi-supervised learning, active learning) game theory, operational research, combinatorial optimization, logic, programming paradigms, statistics...

## Languages

French: mother tongue. English: TOEIC 990/990.

German: attended classes for 10 years, can reactivate it if needed.

## Miscellaneous

AFPS (first aid certificate). BAFA (French camp counselor diploma).

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## Education and awards

- 2011 Offered a research associate (tenured) position at INRA.
- 2004–2005 **MPRI (Parisian Master of Research in Computer Science)**. Rank 6<sup>th</sup>/50 (1<sup>st</sup> at final exam).
- 2002–2004 **École Normale Supérieure de Lyon**. Admitted 3<sup>rd</sup>, also admitted to Polytechnique and ENS Ulm.
- 2000 **Concours général (High school national competition) regional award in mathematics**.
- 1989–1999 **CHA**: general school with around 10h music lessons a week plus daily practice. Guitar, piano, solfège (technical skills: sight singing, musical dictation, score proofreading...), singing, composing.
- 1989–1999 (several times 1<sup>st</sup> at national contest, 7<sup>th</sup> at the international **FFJM** contest)

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## Interests

- Maker at the fablab: laser cutting/engraving on various materials, 3D printing, digital embroidery, CNC milling;
- Having our house built, with the help of an architect
- Contemporary board games, if requiring strategy and reflexion;

Past interests:

- Arts: Magic (president of the local club, paid performances: ), juggling and circus arts, photography, cooking;
- Sports: long-distance running, Alpine and cross-country skiing, badminton and squash;
- [OpenStreetMap](#) contributor (map of a village, statistics tool, quality assurance, etc.)