

# Corentin Louboutin

## Curriculum Vitæ

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### Academic background

- 2012–2015 **Master in computer science**, *École Normale Supérieure de Rennes/Université Rennes 1*.  
Research-oriented school.  
Lectures: automata and formal languages, semantics of programming languages, calculability and complexity, logics and formal verification, systems...
- 2012 **Competitive exam**.  
Received at competitive exam of the ENS of Rennes
- 2012 **Competitive exam**.  
Ranked 10 (out of 8 positions) at the exam to become sound engineer in Conservatoire National Supérieur de Musique et de Danse » (CNSMD) of Paris
- 2010–2012 « **Classe préparatoire** » : **mathematics and physics**, *Lycée Chateaubriand*, Rennes.  
University-level courses required for competitive entrance to exams into top graduate and engineering schools (*Grandes Écoles*).  
Mathematics, physics and computer science
- 2012 **Baccalaureate**, *Lycée Chateaubriand*, Rennes.  
With honours

### Musical background

- 1999–2012 **Classical guitar**, « *Conservatoire à Rayonnement Régional* » (CRR), Rennes.  
(prof. Hervé Merlin, André Couasnon)  
Mainly classical guitar but also some jazz / improvisation.
- 2012 **Certificat de Fin d'Étude Musicale de guitare (CFEM)**, CRR, Rennes.  
Degree for amateur players.
- 2011 **Certificat de Fin d'Étude Musicale de solfège (CFEM)**, CRR, Rennes.  
Good knowledge of classical music (ear, reading and analysing).
- 2009–2012 **Harmony**, CRR, Rennes.  
(prof. David Lamaze)  
Bach's chorals, inventions, string quartets.
- 2003–2007 **Percussion**, CRR, Rennes.  
(prof. Olivier Fiard)
- 2001–2007 « **Classe à horaires aménagés musique** », *École élémentaire Contour Saint Aubain, Collège Anne de Bretagne*, Rennes.  
primary / secondary school with strong musical part

## Experience

Summer 2013 **Internship (6 weeks)**, *Laboratoire d'Informatique Fondamentale de Lille, France*.  
Advisor: Mathieu Giraud.  
*Computed analysis of the development part of sonata forms. (Musical Information Retrieval)*  
Techniques used: pattern matching (Mongeau-Sankoff algorithm, extensions), key finding (Temperley algorithm, dynamic algorithm), hidden Markov model.

## Programming skills

- Python Language that I used for my internship.
- Ocaml Used for many project as a AI for the *four in row* game, for semantics computing and smaller projects.
- Java Used to implement a real time strategy game in 2D.
- C++ Used to implement a ray tracer and smaller project.
- C Used for small project and practical works.

## Entertainment

Most of my entertainments are related to music. For example, I'm member of the guitar ensemble of the « Orchestre des Jeunes de Haute Bretagne » since ten years. The aim of this orchestra is the partnership with international orchestras. Each year, a travel is organized, for my part I went to several countries, like US, Romania, Czech Republic and China. Since one year, I am also playing electric guitar in a progressive rock band. We are beginning composing our own music.

Moreover, I was a boy scout of the « Scouts et Guides de France » movement during 14 years. During the last two years, I set up and realize, with 3 other persons, a development project in relationship with an association in Mongolia. Our aim was to help an herdsman family to build a shelter for the herd. It was successful, we receive good news every years.