

Marc CHEVALIER

Student ENS - ENS Lyon
Theoretical Computer Science

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Education

- 2016–2017 **Pre-PhD internship**, *École Normale Supérieure (75)*, Paris, France.
- Research internship (Antique team) : Verification by abstract interpretation of security properties of embedded C software, handling of inline assembly in Astrée static analyser
 - SWERC team contest 2014 : ranked 28^{ème} out of 60
- 2015–2016 **Second year of MS. in computer science**, *École Polytechnique Fédérale de Lausanne (Vaud)*, Switzerland.
- MS. in theoretical computer science obtained with 17.5/20
 - SWERC team contest 2015: ranked 15th out of 52
- 2014–2015 **First year of MS. in computer science**, *École Normale Supérieure de Lyon (Prestigious graduate program comparable to "Institutes for Advanced Studies", which constitutes the top level of research-training education in the French university system)*, France.
- Research internship about abstract interpretation in TrustInSoft: formal certification of libiconv using Frama-C and extension of Frama-C to analyse C++.
 - Oral examiner in mathematics at CPGE (*Intensive preparatory classes to the entrance exam to French "Grande Écoles"*), at Lazaristes college
 - SWERC team contest 2014: ranked 25th out of 36
- 2013–2014 **BSc. in computer science**, *École Normale Supérieure de Lyon*, France.
- BSc. in theoretical computer science obtained with honors.
 - Research internship in LIX (*École Polytechnique, Palaiseau, Alco team*): Characterization of the functions calculated by a Turing machine with a bound on the number of transitions with a change of state
 - AERES Evaluation of ENSL (official French ranking body of universities and research centres): Contribution to the workgroup Education and Research as the only representative of students
 - Physics teacher for 6 weeks in a 4th grade class
 - Prologin contest 2014
- 2011–2013 **CPGE MPSI, MP* Option Computer science**, *Lycée Sainte Geneviève (2 years intensive preparatory classes to the entrance exam French prestigious "Grandes Écoles")*, Versailles (78), France.
- Training camp for the experimental examination of the International Physics Olympiads
 - Prologin contest 2012-2013

Languages

French Mother tongue
English Fluent: daily professional usage - drama practice in English
German Conversational
Chinese Basics of Mandarin

Experience

Sept. 2014 – **Projet Pensées Profondes (Deep Thought Project)**, *ENSL*, Team work
present – 7 people.
Aim: Build a natural language questions answering framework
Project website: <http://projetpp.github.io/>

Feb. 2014 – **Megasat**, *ENSL*, Team work – 2 people.
May 2014 Topic: SAT and SMT solver using state of the art algorithms
Project website: <https://github.com/Tpt/megasat>

Oct. 2011 – **Introduction to computability**.
present Write a 300 pages paper introducing to compatibility theory
<http://perso.ens-lyon.fr/marc.chevalier/Calculabilite/Calculabilite.pdf>

Skills

Programming languages Advanced knowledge: C, C++, OCaml, Python; basic knowledge: Haskell, Erlang, Java, Scala, MIPS
Tools/OS \LaTeX , Git, Coq, Maple, Mathematica, Microsoft Office, Ubuntu, Debian, Windows

Interests and activities

Private lessons Mathematics, physics and computer science for 6th grade and above
Classic languages Greek, Latin, passionate for mythology
Archery Competition level – trainer
Ski Competition level
Drama 13 years of practice (in French and English)
Misc. First aid certificate

