

Guillaume Claret

Curriculum Vitae

34 rue Maurice Arnoux
92120 Montrouge
☎ (+33)6.82.05.43.55
✉ guillaume@claret.me
📄 guillaume.claret.me

Born 23rd March 1989, Marseille (France)



Education

- 2012– **PhD of Computer Science**, *Université Paris VII and Inria*, with Yann Régis-Gianas. Extension of the proof language Coq to a programming language with effects.
- 2008–2012 **Élève Normalien**, *Computer Science Department of École Normale Supérieure*, Paris, admitted 1st.
- 2011 **Parisian Master of Research in Computer Science**, *Université Paris-Diderot VII*. Classes about abstract interpretation, theorem provers, concurrent systems, compilers, linear logic, type theory, software engineering.
- 2006–2008 **Classes préparatoires aux Grandes Écoles**, *Lycée Thiers*, Marseille.
- 2006 **Baccalauréat S (Scientific)**, *Lycée Bonaparte*, Toulon.

Experiences

- Spring 2012 – **Design of a compiler for probabilistic languages**, *Microsoft Research India, Bangalore*, with Sriram Rajamani and Aditya Nori.
Summer 2012 .Net, F#, probabilistic semantics, bayesian networks.
- Spring 2011 – **Compiler and static analyzer of real-time ML language**, *Inria Paris*, Internship under the advisory of Roberto Amadio and Yann Régis-Gianas.
Summer 2011 OCaml, formal verification of compilers and real-time programs.
- Spring 2011 **French robotics contest with the ENS's team**, *La Ferté-Bernard*, 24th.
C++, AI.
- 2010 – 2011 **Teaching of Maple practical classes**, *Lycée Saint Louis, Paris*.
- Spring 2010 – **Optimistic Concurrency Using a Program Logic for History**, *Yale University*, Internship under the advisory of Zhong Shao.
Summer 2010 Coq, formal verification of concurrent programs.
- Summer 2009 **Design and proof of a pre-condition algorithm on C in Coq**, *INRIA Sophia-Antipolis Méditerranée*, Internship under the advisory of Anne Pacalet.
Coq, C formal verification, Frama-C.
- Spring 2009 **Simulator of a robot moving without articulation**.
Physics engine, C++.
<http://guillaume.claret.me/bunach/>
- Spring 2009 **Simulation of an olfactory system**.
Neuroscience, neural network, Python.

- Spring 2009 **Member of Cloudster, a k -means algorithm implementation on Cloud computing.**
Visual Studio, C#, .Net, Windows Azure.
<http://cloudster.sourceforge.net/>
- Since 2009 **Admin and development of TeeWorlds game servers.**
Admin, C++, networking.
- Winter 2008 **Compiler of a subset of OCaml.**
OCaml, Menhir, MIPS assembly.
- Winter 2008 **Electronic circuit simulator and design of a small microprocessor.**
C, Ruby.
- Winter 2008 **ACM's algorithmic contest, Nuremberg, 5th.**
2008 **Generator of walking creatures by genetic algorithms.**
Physics engine, genetic algorithms, C.
<http://guillaume.claret.me/projects/tipe/video.avi>

Skills

Programming languages

- C, C++
- Plateforme .Net (C#, F#)
- OCaml, Coq (proof language)
- Ruby, JavaScript
- x86 and MIPS assembly languages
- Web technologies (HTML, CSS)
- SQL

Software

- GNU/Linux (Red Hat based, Debian based), Windows
- Git, Mercurial and SVN version control systems
- NGINX / Lighttpd webserver
- Regular use of LaTeX, Beamer, Inkscape

Language skills

French	native
English	written and spoken
Spanish	scholar