

Robin Morisset

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Education

- 2012-2016 **PhD in Computer Science**, *École Normale Supérieure (ENS) / Inria*, Paris, France.
Supported by a Google European PhD Fellowship
Advisor: Francesco Zappa Nardelli
Topic: Formalisation and Optimisations in Weak Memory Models
- 2010-2012 **MSc in Computer Science**, *ENS Paris*, Summa Cum Laude.
MPRI: Parisian Master on Research in Computer Science, with a focus on formal methods and concurrency
- 2009-2010 **BS in Computer Science (minor maths)**, *ENS Paris*.
- 2007-2009 **“Classes Préparatoires aux Grandes Écoles” (MPSI-MP*)**, *Janson de Sailly*, Paris, France.
Two year intensive program preparing for the competitive examination at the entrance of some French universities.
Double major: Maths and Physics, with a minor in Computer Science

Experience

- 2015-2016 **Teaching assistant**, *ENS*, Paris, France.
Teaching the programming sessions of the "Compilers and Programming languages" course.
- July-Oct. **Software Engineering Intern**, *Google*, Mountain View, USA.
2014 Improved the support of low-level atomics in the x86, ARM and Power backends of LLVM.
Made the LLVM middle-end optimisers more aggressive around atomics.
- March-Aug. **Research Intern**, *ENS / Inria*, Paris, France.
2012 Proved the safety of some optimisations around C11 low-level atomics.
Also worked on a tool (in OCaml) to fuzzy-test GCC/Clang compilation of concurrent C code.
Paper: "Compiler Testing via a Theory of Sound Optimisations in the C11/C++11 Memory Model" (PLDI 2013)
- March-Aug. **Research Intern**, *University of Pennsylvania*, Philadelphia, USA.
2011 Worked on the design and Haskell interpreter of a new programming language based on dynamic information flow.
- June-Aug. **Research Intern**, *National Institute for Aerospace*, Hampton, USA.
2010 Developed Copilot, a framework for the monitoring of hard real-time distributed systems, as an EDSL in Haskell.
Paper: "Copilot: A Hard Real-Time Runtime Monitor" (Intl. Conference on Runtime Verification 2010)

Programming languages

Basic HTML/CSS, SQL, assembly, Rust
Intermediate C++, OCaml
Expert C, Haskell

Languages

French mother tongue
English fluent
German basic