

MARTIN BODIN

Huerfanos 1400, Departamento 815B
Santiago centro
CHILE

Born the 30th of December 1989.
Phone Number: +33 6 27 00 58 84
mbodin@dim.uchile.cl
<http://www.cmm.uchile.cl/~mbodin>

Education

- 2017 Postdoc at the CMM, in SANTIAGO, (CHILE) on the formalisation of the R programming language.
- 2012–2016 Ph.D. in Computer Sciences at IRISA, in RENNES (FRANCE), under the direction of ALAN SCHMITT and THOMAS JENSEN on certified analyses of JAVASCRIPT.
- 2010–2012 *Master d’Informatique* (i.e. a Computer Science Master) in the *École Normale Supérieure de Lyon* (a French *grande École*—i.e. a leading institution of higher education—specialized in the formation of searchers).
- 2009–2010 *Licence d’Informatique, mention très bien* (i.e. a Computer Science Licence degree, magna cum laude) in the *École Normale Supérieure de Lyon*.
- 2007–2009 *Classes préparatoires aux grandes Écoles* in the *lycée Henri IV* in Paris (a two-years intensive course preparing to the competitive entrance of *grandes Écoles*).
- 2007 *Baccalauréat Scientifique, mention très bien* (equivalent to British A-levels with a major in Mathematics, Physics and Biology, magna cum laude).

Languages

- Native in French;
- Good level in English;
- Fluent in Esperanto;
- Basic level in Portuguese and Spanish;
- Notions of German.

Related Experience

- 2013–2016 Member of the SECLOUD project: www.seccloud.cominlabs.ueb.eu/.
- 2012–2016 Member of the JsCERT project: jscert.org/.
- 2012 Internship in INRIA at RENNES with ALAN SCHMITT and THOMAS JENSEN: *A Certified JAVASCRIPT Interpreter*.
- 2011 Internship in VRIJE UNIVERSITEIT at AMSTERDAM with DIMITRI HENDRIKS and JÖRG ENDRULLIS: *Proving Stream Equalities in COQ*.
- 2011 Internship in PPS at PARIS with STÉPHANE GIMENEZ and CHRISTINE TASSON: *Sequentialization of proof nets to structures*.
- 2010 Internship in VÉRIMAG at GRENOBLE with DAVID MONNIAUX: *Détection de modes de fonctionnements d'un programme LUSTRE*.

Conferences

- 2015 *Certified Abstract Interpretation with Pretty-Big-Step Semantics*, Martin BODIN, Thomas JENSEN, and Alan SCHMITT (CPP 2015).
- 2014 *A Trusted Mechanised JavaScript Specification*, Martin BODIN, Arthur CHARGUÉRAUD, Daniele FILARETTI, Philippa GARDNER, Sergio MAFFEIS, Daiva NAUDZ-IUNIENE, Alan SCHMITT, and Gareth SMITH (POPL 2014).
- 2013 *Circular Coinduction in Coq Using Bisimulation-up-to Techniques*, Jörg ENDRULLIS, Dimitri HENDRIKS, and Martin BODIN (ITP 2013).
- 2011 *Modular Abstractions of Reactive Nodes using Disjunctive Invariants*, David MONNIAUX and Martin BODIN (APLAS 2011).

Workshops

- 2016 *An Abstract Separation Logic for Interlinked Extensible Records*, Martin BODIN, Thomas JENSEN, and Alan SCHMITT (JFLA 2016).
- 2014 *Certified Abstract Interpretation with Pretty-Big-Step Semantics*, Martin BODIN, Thomas JENSEN, and Alan SCHMITT (JFLA 2014).
- 2013 *Pretty-big-step-semantics-based Certified Abstract Interpretation (Preliminary version)*, Martin BODIN, Thomas JENSEN, and Alan SCHMITT in *Semantics, Abstract Interpretation, and Reasoning about Programs: Essays Dedicated to David A. SCHMIDT*
- 2013 *A Certified JavaScript Interpreter*, Martin BODIN and Alan SCHMITT (JFLA 2013).

Computer Proficiencies

- Good commands in the following programming languages: COQ, JAVASCRIPT, \LaTeX , OCAML...

- Familiar with GNU/LINUX as an operating system.
- Able to use VIM, GIT, THE GIMP, INKSCAPE, GRAPHVIZ...

Association Experience

- 2014–2015 Active member of ESPÉRANTO-RENNES.
- 2012 Treasurer of the theater association ASCREB in RENNES
- 2010 Secretary of the INFO-ENS association in LYON.

Other Experience

- 2014 Software design and verification, M1 tutoring in the *École Normale Supérieure*
- 2013–2014 Formal Languages, tutoring for L3 students in the *École Normale Supérieure*
- 2013 Introduction to SCHEME, tutoring for L1 students in the INSA of RENNES
- 2012, 2014 Monitoring the algorithmic practice examination for the entrance of the *École Normale Supérieure*.

Personnal Interests

- Board games, card games, improvisation games, role playing games, etc.
- Esperanto related activities.