Martin Bodin

Born the 30th of December 1989.

30, rue de Stalingrad,

Phone Number: +33 6 27 00 58 84

38 100 Grenoble France

`martin.bodin@ens-lyon.org`

`https://mbodin.github.io/`

Employment

2020–	Researcher (chargé de recherche) in the Spades team, at Inria (Grenoble).
2018–2020	Postdoc at the Imperial College, in London (United Kingdom) on the theoretical foundations of the analysis of real-world languages.
2017–2018	Postdoc at the CMM (the Center of Mathematical Modeling, part of the Universidad de Chile), in Santiago (Chile) on the formalisation of the R programming language in the Coq proof assistant.

Education

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;
- Fluent in Esperanto;
- Notions of German.

- Good level of English;
- Average level of Portuguese (Brazil);
- Basic level of Spanish;

Conferences

2019	Martin BODIN, Philippa GARDNER, Thomas JENSEN, and Alan SCHMITT. *Skeletal Semantics and Their Interpretations*. In POPL.
2018	Martin BODIN, Tomás DIAZ, and Éric TANTER. *A Trustworthy Mechanized Formalization of R*. In DLS.
2015	Martin BODIN, Thomas JENSEN, and Alan SCHMITT. *Certified Abstract Interpretation with Pretty-Big-Step Semantics*. In CPP.
2014	Martin BODIN, Arthur CHARGUÉRAUD, Daniele FILARETTI, Philippa GARDNER, Sergio MAFFEIS, Daiva NAUDŽIŪNIENĖ, Alan SCHMITT, and Gareth SMITH. *A Trusted Mechanised JavaScript Specification*. In POPL.
2013	Jörg ENDRULLIS, Dimitri HENDRIKS, and Martin BODIN. *Circular Coinduction in Coq Using Bisimulation-up-to Techniques*. In ITP.
2011	David MONNIAUX and Martin BODIN. *Modular Abstractions of Reactive Nodes using Disjunctive Invariants*. In APLAS.

Workshops

2019	Martin BODIN, Tomás DIAZ, and Éric TANTER. *A Trustworthy Mechanized Formalization of R*. In FMfSS.
2018	Martin BODIN. *A Coq Formalisation of a Core of R*. In CoqPL.
2016	Martin BODIN, Thomas JENSEN, and Alan SCHMITT. *An Abstract Separation Logic for Interlinked Extensible Records*. In JFLA.
2014	Martin BODIN, Thomas JENSEN, and Alan SCHMITT. *Certified Abstract Interpretation with Pretty-Big-Step Semantics*. In JFLA.
2013	Martin BODIN, Thomas JENSEN, and Alan SCHMITT. *Pretty-big-step-semantics-based Certified Abstract Interpretation (Preliminary version)*. In *Semantics, Abstract Interpretation, and Reasoning about Programs: Essays Dedicated to David A. SCHMIDT*
2013	Martin BODIN and Alan SCHMITT. *A Certified JavaScript Interpreter*. In JFLA.

Other Publications

2016	Martin BODIN. *Certified semantics and analysis of JavaScript*. Ph.D. thesis.

Miscellaneous

2019	Member of the Artifact Evaluation Committe for POPL.
2012, 2014	Monitoring the algorithmic practice examination for the entrance of the École Normale Supérieure.

Supervising

2020	Rao XIAOJIA, cosupervised with Philippa GARDNER
2019	Benjamin GUNTON, cosupervised with Philippa GARDNER
2017–2018	Tomás DIAZ, cosupervised with Éric TANTER

Teaching

2019	Separation Logic. M1 tutoring at the Imperial College London.
2018	Models of Computation. L2 tutoring at the Imperial College London.
2017	Introduction to Coq: Logic, Types, and Verification. M2 tutoring at the Universidad de Chile.
2014	Software Design and Verification. M1 tutoring at the École Normale Supérieure.
2013–2014	Formal Languages. L3 tutoring at the École Normale Supérieure.
2013–2014	Introduction to Functional Programming. L1 tutoring at the université Rennes 1.
2012	Introduction to Scheme. L1 tutoring at the Insa of Rennes.

Other Experiences

2013–2016	Member of the SecCloud 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.

Computer Proficiencies

- Good commands in the following programming languages: Coq, OCaml, JavaScript, LaTeX, etc.

- Familiar with GNU/Linux as an operating system.

- Familiar with Vim, Git, Inkscape, etc.

Association Experience

2017   Esperanto Meetups in Santiago.

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.

Personnal Interests

- Board games, card games, improvisation games, role playing games, etc.

- Esperanto related activities.