Yannick Zakowski – Curriculum Vitae

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Studies

2014-2017 PhD student at the ENS Rennes, hosted within the IRISA, under the supervision of David Pichardie et David Cachera.
Topic: “Verification of a Concurrent Garbage Collector.”
Teaching duties at the ENS Rennes and University of Rennes 1.

2009-2014 Studies at the ENS Rennes.

2013-2014 Ten months internship at the Aarhus University, in the Logics and Semantics group.
Supervisors: Lars Birkedal and Filip Siewczkowski
Topic: “Toward a formalization in Coq of a parallelization theorem for an higher order concurrent language with general references”

2013 Five months internship at IRISA, Rennes, in the Celtique team.
Supervisor: David Cachera
Topic: “Generation of polynomial inequalities as invariants”

2012 Three month internship in Sweden, at Chalmers University.
Supervisor: David Sands
Topic: “Programming With Information Flow-Control: the Paragon language”

2011 Two month internship at IRISA, Rennes, in the Celtique team.
Supervisor: David Cachera
Topic: “Fast inference of polynomial invariants for imperative programs”

Teaching duties

Teaching assistant during the three years of my PhD. I taught to various audiences, ranging from first year of bachelor to master students. I have notably been teaching assistant for the following courses:

- **Algorithmic and functional programming**
  Audience: first year of bachelor.

- **Semantics**
  Audience: first year of master.

- **Algorithmic**
  Audience: Third year of bachelor.

  *Preparation for the Agrégation (french competitive exam to teach mathematics)*

Responsibilities

- Conception and co-organisation of the first edition of the national seminar for french PhD students in computer science (2016).

- Student volunteer at the European Conference on Object-Oriented Programming 2015 (ECOOP’15) in Prague.
Papers

Conference  
Verifying a Concurrent Garbage Collector using a Rely-Guarantee Methodology
In Interactive Theorem Proving (ITP’17), LNCS 10499, Springer 2017.
Preprint: hal-01613389

Technical report  
Compilation of Linearizable Data Structures: A Mechanised RG Logic for Semantic Refinement
Y. Zakowski, D. Cachera, D. Demange, D. Pichardie
Article paper under submission
Report: hal-01538128

Internship report  
Toward a formalization in Coq of a parallelization theorem for an higher order concurrent language with general references
Y. Zakowski
Master report: dumas-01627015

Internship report  
Generation of polynomial inequalities as invariants
Y. Zakowski
Master report: dumas-00854834