

Yannick Zakowski – Curriculum Vitae

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| Birth date | 1990, March 19 th | Email | yannick.zakowski@irisa.fr |
| Nationality | French | Site | www.irisa.fr/celtique/zakowski |

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.
Bachelor in mathematics (2009). Master in computer science (2013, ranked 3rd).
- 2013-2014** Ten months internship at the Aarhus University, in the Logics and Semantics group.
Supervisors: Lars Birkedal and Filip Sieczkowski
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*
Y. Zakowski, D. Cachera, D. Demange, G. Petri, D. Pichardie, S. Jagannathan and J. Vitek.
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