



CV Laure Gonnord

Postal address :

Laboratoire d'Informatique du Parallélisme
UMR CNRS - ENS Lyon - UCB Lyon 1 - INRIA 5668
46 allée d'Italie
69364 Lyon Cedex 07, France

Université Lyon 1 Claude Bernard

Tel. : 04 72 72 85 69 (LIP)

E-mail : laure.gonnord@ens-lyon.fr

Web : <http://laure.gonnord.org/pro/>

Tenured Assistant Professor (Maître de Conférences)

*Topics : Software Verification, Embedded Systems, High Performance Computing,
Static Analysis, Compilation.*

Actual and former Positions

- since sept 2013** **Assistant Professor** *University Lyon 1*. Science Faculty, Computer Science Department. Lab : LIP, Compsys then ROMA team.
- 2009 - 2013** **Assistant Professor** *University Lille1*. Polytech Engineer School. Computer Science and Embedded System Departments
- 2008 - 2009** **Teaching and research assistant** *University Lyon I* and LIP.
- 2007 - 2008** **Postdoctoral position**, *INSA Lyon*, Lab CITI, ANR Project REVE.
- 2003 - 2007** **Phd In Computer Science** Grenoble University, Synchronous Team, Verimag Lab advisor N. Halbwachs and **teaching position**, *Grenoble University*. Phd : "Abstract acceleration to improve precision of Linear Relation Analysis", defended on October, 27th, 2007.

Software

- **Vaphor** : A prototype of a static analysis tool that abstract programs with arrays into array-free horn clauses (2k OCaml LoCs) (Participation 40%, collaboration with D. Monniaux) . The tool has been substantially re-engineered by Julien Braine since June 2016. <http://laure.gonnord.org/pro/demopage/vaphor/>
- **Termite** (10% participation) : termination proof tool, in collaboration with G. Radanne, main developer, and D. Monniaux. <https://termite-analyser.github.io/>.
- **Aspic** : A static analysis tool that implements accelerated Linear relation Analysis, (20 000 OCaml LoCs) <http://laure.gonnord.org/pro/aspic/aspic.html>.
- **ReveViewer** : A prototype «proof of concept» for the REVE ANR Project, a remote image viewer and the software architecture around it to deal with resource's constraints (5000 C++ LoCs).

Service

Teaching/ Supervising

- from 2002, I taught for a total 1600 hours from undergraduate to graduate students, from basic programming courses to advanced courses like Program Analysis and Compilation.
- from 2009 I advised 5 undergraduate internships and 2 master students.
- from 2012, I was in the Phd Jury of 3 thesis, including one where I was one of the two referees.
- from sept 2014 I co-advise (with E. Vivien) the Phd of Maroua Maalej, on designing low cost static analyses.

Conferences

- PC member of VMCAI'17, WST'14, TAPAS'12.
- PC Jury of the Student Competition at CGO'16.
- Reviewer of the conferences CAV, VMCAI, STACS, LCTES...
- Invited seminars : Google and SRI (June 2015), student seminar at ENSL (2014), ...(<http://laure.gonnord.org/pro/research/seminars.html>).

Projects

- Participation to the projects System@tic “APRON” and ANR “REVE”.
- Coordination of the Lille university BQR Project “ALIL” (languages and analysis for software engineering) in 2011/2012.
- Coordination of the CNRS INS2I Project “HLS-RT” for 2012 and 2013. (16k€ for 2 years) High level synthesis under real-time constraints.
- Partner of the “PROSPIEL” Inria associate team (Brasil-France) since 2015 (20k€ per year, 2 years).
- Principal instigator of the BQR ENS de Lyon Project “SODAS”, October 2015 (12k€ for 2 years) High performance programming of complex data structures.

Other

- Co-coordinator of the French Compilation group <http://compilfr.ens-lyon.fr/> since 2010.
- Member of the following work-groups : GDR GPL Board, Labex MILYON teaching commission, finance committee of the Science Faculty, finance committee of the LIP.
- Elected member of the LIP Lab council.
- Since 2013, I participated to 3 associate professor and one junior researcher (CR) selection committees. I also belong to the Grenoble-Alpes’ Inria doctorate studies committee since 2014.

Publications

The full list of my publications (4 journal papers, 12 international conferences and 6 international workshops at the date of Sept. 24th 2016) can be found on HAL or on the webpage <http://laure.gomord.org/pro/papers.html>