

## CV Laure Gonnord

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*Tenured Full Professor (Professeure des Universités)*

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

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### Recent Highlights

- 2025 : Head of the CTSYS Team of the LCIS Laboratory
- 2024 : CC'24 paper on compilation for hardware security
- 2023 : ICFP'23 paper on compiling algebraic data types

### Current and Former Positions

**Since sept 2021**

**Full Professor** Grenoble INP - Esisar, UGA Eng. School, Computer Science Department.  
Lab : LCIS (CTSYS) in Valence.

**Spring 2021**

**1/3 year leave (Délégation)** *Inria*.

**November 2017**

**Habilitation in Computer Science**

**Spring 2017 & 2018**

**2 Half-year leaves (Délégation)** *CNRS, Inria*.

**2013 - 2021**

**Assistant Professor** *University Lyon 1*. Science Faculty, Computer Science Department.  
Lab : LIP, CASH Team (since January 2018)

**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. (advi-  
sor N. Halbwachs) and **teaching position**, *Grenoble University*.

### Theses

- **PhD thesis** “Accélération Abstraite pour l’amélioration de la précision de l’Analyse des Relations Linéaires”, defended on October 2007, 27th, Grenoble University, France.
  - Chair : Mr Yves Ledru (UJF).
  - Reviewers : Mr François Irigoien (Mines Paris) and Mr Philippe Schnoebelen (CNRS, LSV).
  - Examinators : Mr Bertrand Jeannet (INRIA) and Mr Thomas Reps (University of Wisconsin).
  - PhD advisor : Mr Nicolas Halbwachs (CNRS/Verimag).
- **“Habilitation à diriger les recherches”** “Contributions to program analysis : expressivity and scalability”.  
University of Lyon, defended on November 9th, 2017.
  - Jury chair : Mrs Isabelle Guérin-Lassous, Professor (Université Lyon1 Claude Bernard) ;
  - Reviewers : Mr Paul H J Kelly, Professor (Imperial College London), Mr Antoine Miné, Professor (Université Pierre et Marie Curie, France), and Mr Andreas Podelski, Professor (Freiburg University, Germany).
  - Examinators : Mr Albert Cohen, Senior Research Scientist (Inria Paris) and Mr Sebastian Hack, Professor (Saarland University, Germany).

### Research Activities : publications, conferences, projects

All my publications can be found on the following webpage <http://laure.gonnord.org/pro/papers.html>

## Conferences

- From 2020, Steering Comitee of **NSAS'19** (Numerical and Symbolic Abstract Domains, workshop affiliated to SAS (Static Analysis Symposium).
- PC chair and local organizer of **NSAD'19** (satellite event of SAS'19, FM'2019), Porto, October 2019.
- **PC member of international conferences** : PLDI 2022 and 2025, ICFP 2026, CGO 2024 and 2025, TACAS 2023, POPL 2021, CC 2021, CAV 2011
- PC member of international workshops TAPAS'18, VMCAI'18, NSAD'17 VMCAI'17, WST'14, TAPAS'12.
- PC Jury of the Student Competition at PLDI'17 and CGO'16.
- Co-organisator (with D. Monniaux) of VMCAI'17 in Paris.
- Reviewer of the conferences CAV, VMCAI, STACS, LCTES...
- Keynote speaker : Journées FAC 2018 (Toulouse), LOPSTR 2018 (Frankfurt am Main).
- Invited seminars : (<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), in 2015-2017 (20k€ per year, 2 years).
- Principal instigator of the BQR ENS de Lyon Project “SODAS”, October 2015-2017 (12k€ for 2 years) High performance programing of complex data structures.
- Principal instigator of the **CODAS** “Young researcher” ANR Project, starting March 2018 (175k€ for 42 months). High performance analysis, scheduling with complex data structures. <http://codas.ens-lyon.fr>.
- Principal instigator of the **CAPESA** Inria associate team with the ACE team, UQAM (Canada), on compilation techniques for program composition problems (33k€ for 3 years from feb. 2020, discarded because of the pandemic situation.).
- Local partner for Grenoble INP - UGA for the PEPR Security Arsene Project. (1 PhD for the LCIS Lab)
- Co-PI of the France 2030 Cyberskills project (Grenoble INP Partner) : evolution of cybersecurity teaching ecosystem at Université Grenoble Alpes. (5.4M€)

**Informal collaborations** I also have regular collaborations with David Monniaux (CNRS/Verimag, Grenoble), Fernando Magno Pereira (UFMG, Brasil), Lionel Morel (CEA List, Insa Lyon) and Tobias Groesser (UTZH, Suisse).

## Teaching Activities, Student Supervision, PhD Jurys

### Teaching

- In 2020-21 I was responsible of the CAPES-NSI training at Univ. Lyon1 <http://master-info.univ-lyon1.fr/CAPES/> and I wrote the new “MEEF” version for sept 2021.
- In 2019-2021 I actively participated to the professor training for the new teaching courses NSI (computer science) courses in secondary schools.
- In 2017-2021 I actively participated to the student preparation to the CAPES competition for teaching in secondary courses.
- From 2021, I am **responsible of the Computer Science Department** in the Esisar Engineering school.
- From 2002, I taught to undergraduate and graduate students, from basic programing courses to advanced courses like Program Analysis and Compilation, on average 220 hours per year (except during half-year leaves, 96 hours per year).
- I have been or I am still responsible of the following courses :
  - Undergraduate (mainly L3) : Computer Architecture, Operating Systems, Algorithmics, Data Structures.
  - Graduate (M1,M2) : Theoretical Computer Science, Compilation, Compilation and Program Analysis, Compilation and Software Engineering, Program Analysis and Verification, Real-Time (advanced Systems) and/or Synchronous Programming.
- Regular participation to internships jurys. In Lille I was responsible of their organisation (last year of the Engineer School Polytech'Lille) ; in Valence I was responsible of one third of them (30 students/year) from 2022 to 2025.

## Student Supervision

- Regular supervising student internships : complete list and links to their reports (on HAL) can be found on the webpage <http://laure.gonnord.org/pro/research/internships.html>.
- At the date of december 2025, 5 of my students have successfully defended their Phd :
  - 2014-2017 : Maroua Maalej, on designing low cost *static analyses for efficient compilers*.
  - 2018-2022 : Julien Braine, on designing *data structures abstractions* for verification.
  - 2018-2022 : Paul Iannetta, on the *efficient compilation of data structures* for HPC programs.
  - 2021-2024 : Thaïs Baudon, on *efficient compilation of Algebraic datatypes*.
  - 2022-2025 : Sébastien Michelland, on *securing compilation*.
- I'm currently (co-supervising) three Phd students : 2 at the LCIS Laboratory, one at Cristal (Lille).

**PhD and HDR Jurys** From 2012, I was in the PhD Jury of 26 students, including 6 as a reviewer and jury of 7 Habilitation thesis (3 as reviewer). The complete list can be found on my website.

## Other activities

### Local and regional activities

- Elected member of the LCIS Lab Council since 2022, member of the rescrited commissions for budget (2022-2024).
- **Head of the CTSYS team** (10 permanent members) of the LCIS laboratory since January 2025. Responsible of the HCERES evaluation for the team (period 2019-2024).
- Since 2023, member of the FSSCT council at Grenoble INP - UGA
- Since June 2024, **Co-secretary** of the CGT union for Grenoble INP - UGA (20 % part-time).
- Co-organisation of the LIP seminar “Langages, Semantics, Compilation”, <http://perso.ens-lyon.fr/christian.perez/journeelangages>, in 2016-2019.
- Member of the Labex MILYON teaching commission (2016-2021), of finance committee of the Science Faculty (2014-2019), finance committee of the LIP (2017-2021).
- Elected member of the LIP Lab Council (2016-2021) and the “Conseil de fédération Informatique de Lyon” (2017-2021). In 2020, coordination (with N. Schabanel) of the HCERES committee discussion with research staff representants.
- Participation to the restricted Phd committee of the LIP Lab (6 members), and to the habilitation list (all habilitated members of the lab) (2017-2021).

### National activities

- **Nominated member of the GDR GPL “Bureau”, from 2021.** Steering of the french “Young researchers School in Programming”. Participation to the redacted propal and inter-subgroup animations. Organisation of 2 sessions of the School itself.
- 2023-... , member of the jury of the French “Capes d’informatique (NSI)”.
- Elected member of the Inria Evaluation Committee (2019-2022) <https://www.inria.fr/institut/organisation/instances/commission-d-evaluation>. This includes participation to reflexion groups as well as juries : 2 CR juries in 2020, participation to one working group in 2020 (guide for CR applicants), 1 CR jury in 2021, DR in 2022. In 2020 and 2021 I participated to two Project -teams instructions.
- Fall 2020 : Participation to the 2019’s Best phd thesis award from the National French Computer Science Society (SIF). *4 reports, invovment in two thematical subgroups, 1 day remote jury.*
- (2010-2020) Co-coordinator of the French Compilation group <http://compilfr.ens-lyon.fr/>. Cofounder with Fabrice Rastello in 2010.
- Together with four other members of the LIP we organised the Summer School in Programming, in June 2018 <https://ejcp2018.sciencesconf.org/>.
- (2011-2020) Member of the GDR GPL (<http://gdr-gpl.cnrs.fr/>) and co-leader of the Compilation group. Organisation of work sessions during the National Days since 2011.
- Since 2013, I participated to 8 associate professor and three junior researcher (CR Inria Rennes Spring 2016, CR Inria Bordeaux and National, Spring 2020) selection committees.
- (2014-2019) Grenoble-Alpes’ Inria doctorate studies committee.
- (2019-2020), member of the Jury of the French “Agrégation de Sciences Industrielles”, computer engineering option.