

CURRICULUM VITÆ

Personal Information

Last Name: FERET

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Citizenship: French

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DIPLOMAS

Ph.D. (2005):

- Ph.D. Thesis at the *Laboratoire d'Informatique de l'École Normale Supérieure, Analysis of mobile systems by Abstract Interpretation*, PhD advisor: Patrick COUSOT; defended in February 2005.

Master's Degree (2000):

- Master's Degree in Pure and Applied Mathematics and in Computer Science at the École Normale Supérieure, Major: Abstract Interpretation, Mention: 'very good'.

CURRENT PROFESSIONAL STATUS

Current position: Research Fellow (CR2), Oct 2008 – present

Institution: INRIA Paris-Rocquencourt, France

Education

- 2000-2004: PhD studies. Thesis at the *Laboratoire d'Informatique de l'École Normale Supérieure, Analysis of mobile systems by Abstract Interpretation*, PhD advisor: Patrick COUSOT. Defended in February 2005;
- 1997-2000: Master's Degree in Pure and Applied Mathematics and in Computer Science Major: Abstract Interpretation, Mention: 'very good';
- 1997-2001: École Normale Supérieure.

Professional Experience

- Oct 2008 - present: Research Fellow (CR2) at INRIA ;
- Oct 2007 - Sept 2008: Research Fellow at Harvard Medical School – static analysis of biological networks;
- Jun 2007 - Sept 2007: Developer and Systems Designer at Plectix Biosystems Inc., Cambridge, MA, USA (design and implementation of algorithms for trace minimization in biological networks);

- Jan 2005 - Dec 2007: Research Fellow at École Normale Supérieure – ASTRÉE project;
- Sept 2004 - Dec 2004: Research Fellow at École Polytechnique – ASTRÉE project;
- Sept 2001 - Aug 2004: Université Paris-Dauphine – teaching assistant during my graduate studies;
- Jan 1999 - Jan 2000: Laboratoire d’Informatique de l’École Polytechnique (Palaiseau, France) – intern (design and implementation of a static analyzer for the π -calculus);
- Sept 1997 - Aug 2001: École Normale Supérieure – civil servant (university student in the Grandes Écoles system).

Research visits and collaborations

- 2009, École Polytechnique Fédérale de Lausanne (Switzerland);
- 2009, Seoul National University (Korea);
- 2007, Microsoft Research Redmond (WA, USA);
- 2006-2009, Harvard Medical School (MA, USA);
- 2005, Università degli Studi di Verona (Italy).

Awards and distinction

- Best paper award of the *Sixth International Conference on Verification, Model Checking and Abstract Interpretation* (VMCAI’05);
- Laureate of the Long-term Junior Chair of Excellence “AbstractCell” (ANR, Dec 2009-Dec 2013).

Publications

- author of two publications in international peer-reviewed journals;
- coauthor of three publications in international peer-reviewed journals;
- author of eight publications and talks in international peer-reviewed symposia;
- coauthor of ten publications in international peer-reviewed symposia;
- coauthor of two book chapters.

Invited seminars

- In France: Semantics and Abstract Interpretation (ÉNS) ($\times 3$), the students of the *Department of Computer Sciences* of the ÉNS, PPS (Paris VII) ($\times 4$), LORIA (Nancy), VERIMAG (Grenoble) ($\times 2$), the working group about concurrency (Paris VII) ($\times 7$), LIAFA (Paris VII), LABRI (Bordeaux), CEA-LIST (Saclay);
- Outside France: Formal Methods Group (Verona, Italy), Microsoft Research (Redmond, WA, USA), Department of Systems Biology of Harvard Medical School ($\times 3$) (Boston, MA, USA), Seoul National University (15 hours of lectures) (Seoul, South Korea), LANOS Working Group (EPFL, Lausanne, Switzerland), EPFL (Lausanne, Switzerland).

The video of my talk at Microsoft Research is available at the following URL:

<http://www.researchchannel.org/prog/displayevent.aspx?rID=19819&fID=4608>.

Ad hoc reviewing activity

- Reviewer for international conferences:
PPDP'00, ESOP'00, ESOP'01, SAS'01, TACS'01, SAS'02, VMCAI'03, FOSSACS'03, ESOP'03, SAS'03, VMCAI'04, SAC'04, ESOP'04, SAS'04, CONCUR'04, VMCAI'05, CONCUR'05, SAS'05, APLAS'05, CC'06, PLDI'06, SAS'06, APLAS'06, ASIAN'06, VMCAI'07, POPL'07, ESOP'07, FOSSACS'07, SAS'07, CONCUR'07, CSMB'07, POPL'08, VMCAI'08, SAS'08, ICALP'08, MFPS'08, CONCUR'08, POPL'09, VMCAI'09, ESOP'09, PEPM'09, FOSSACS'09, MPFS'09, SAS'09, FMICS'09, SEFM'09, CompMod'09, POPL'10, VMCAI'10, ESOP'10.
- Reviewer for international journals:
Transactions on Programming Languages 2001, 2006, 2007; Information and Computation 2001, 2005; Journal of Computer Science and Technology 2006; Journal of Software 2007; Journal of Computer Security 2007; Transactions of Computational Systems Biology 2008; Fundamenta Informaticæ 2009; Theoretical Computer Science 2009.
- Reviewer for the Microsoft Research European PhD Scholarship program 2006.
- External Reviewer for the National Science Foundation's Merit Review Process 2009.

Committees

- Member of the expert committee of *the National Foundation of Research in Aeronautic and Spacial Applications* (FNRAE);
- Programme committee member of the Workshop on Developments in Computational Models (DCM 2009).
- Cochair of the First Workshop on Static Analysis and Systems Biology (SASB 2010).

PhD Juries

- Jury member of Sylvain Pradalier's PhD (École Polytechnique, September 2009).

Teaching

- 2008-2009: Lectures (15 hours) for graduate students in Seoul National University invited by Kwangkeun Yi.
- 2000-2009: Lectures (between 3 and 9 hours/year) for the program "Parisian Master of Research in Computer Science" (MPRI) in the context of Patrick COUSOT's course on Abstract Interpretation;
- 2006-2008: Lectures (2 hours/year) for the program "Parisian Master of Research in Computer Science" in the context of Vincent DANOS, François FAGES, and Vincent SCHÄCHTER's course on Formal Bioinformatics;
- 2005-2006: Lectures (4 hours) for the program "Master of Computer Science" at the University of Verona in the context of Roberto Giacobazzi's course on Automatic System Analysis and Verification;
- 2005-2007: Problem sets and sections (120 hours/year) in computer science for the students of the 'lycée Louis Le Grand' (Paris) applying to École Normale Supérieure;

- 2001-2004: Problem sets and sections (64 hours/year) in computer science for the students in the second year of the ‘université Paris-Dauphine’;
- 1998-2001: Problem sets and sections (80 hours/year) in computer science for the students of the ‘lycée Marcelin BERTHELOT’ (Saint-Maur, France) applying to École Normale Supérieure.

The lectures in the MPRI on Abstract Interpretation in 2007-2008, at the University of Verona 2005-2006, and at Seoul National University were delivered in English; the other lectures were given in French.

Interests

- music: drums (13 years in the Music School, Jazz and Rock bands);
- sport: swimming (10 years in club), tennis (5 years in club).