

## ROMAIN JULIAN DEMANGEON

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### Employment

11/2010 - current Research Assistant with Kohei Honda at Queen Mary, University of London  
09/2007 - 10/2010 Teaching Assistant, ENS Lyon and Université Claude Bernard Lyon 1  
09/2003 - 08/2007 *Elève Normalien* at ENS Lyon

### Education

2007-2010 *Termination of concurrent systems* (defended 22/11/2010)  
Phd thesis at *Laboratoire d'Informatique du Parallelisme*, ENS Lyon, with Daniel Hirschkoff and *Department of Computer Science* at Bologna University with Davide Sangiorgi  
2004-2007 *Master degree* in Fundamental Computer Science of ENS Lyon with honours (*Mention Très Bien*)  
2005-2006 *Agrégation de Mathématiques Option Informatique*  
(french competitive exam granting first-class teaching position in Mathematics and Computer Science)  
2003-2004 *Licence* in Fundamental Computer Science of ENS Lyon with honours (*Mention Très Bien*)  
2003 Admitted at *Ecole Normale Supérieure de Lyon* (competitive examination).  
2001-2003 Studied Mathematics and Physics in *Classes préparatoires* at *Lycée Henri Poincaré de Nancy*  
2001 Scientific french *Baccalauréat*, with honours (*Mentions Très Bien, Section Européenne Allemand*)

### Teaching

2007-2010 Teaching assistant at ENS Lyon and UCBL:  
64 hours of labs in Functional programming  
64 hours of labs in Semantics, Rewriting and Logic  
32 hours of labs in Computability  
32 hours of labs in Data structures  
2008 Supervising a training period of an undergraduate student:  
Development of an hybrid analyser for termination of  $\pi$ -processes  
2006-2008 64h of preparation to computer science oral exams for students in *Classe Préparatoires*.

### Selected list of conference, workshop and seminar presentations

04/2011 DCW'11 workshop presentation, Dublin  
11/2010 PhD defense at ENS Lyon  
10/2010 Comete Team seminar, LIX, Palaiseau  
09/2010 CONCUR'10 conference presentation, Paris  
08/2010 Logics and Semantics group seminar at IC, Tallinn  
03/2010 LAC-GEOCAL'10 project presentation, Nice  
02/2010 TICS'10 summer school presentation, Bangalore  
11/2009 COMPLICE project presentation, Nancy  
06/2009 WST'09 workshop presentation, Leipzig  
04/2009 FSEN'11 conference presentation, Kish Island  
03/2009 LAC-GEOCAL'09 project presentation, Lyon  
11/2008 NWPT'08 workshop presentation, Tallinn  
09/2008 IFIP-TCS'08 conference presentation, Milano  
09/2007 TGC'07 conference presentation, Nice

## Internships

- 2007 6 months Research Internship at ENS Lyon with Daniel Hirschhoff
- 2005 8 weeks Research Internship at Uppsala Universitet with Paul Petersson
- 2004 6 weeks Research Internship at LORIA with Claude Kirchner.

## Scholarships

- 2007-2010 PhD funding with teaching duties (*allocation couplée*) by ENS Lyon
- 2003-2007 Funded for higher education toward research by the French State and ENS Lyon.

## Research Interests

I am interested in helping to design robust and secure distributed programs, applications and protocols by building efficient static analyses on faithful abstracted models of concurrent programming, guaranteeing a wide array of properties (termination, progress, non-interference, soundness).

*Keywords:* distributed systems, concurrency, mobile processes, formal methods, static analysis, type systems, programming theory.

## Publications

- [1] Romain Demangeon, Daniel Hirschhoff, Naoki Kobayashi, and Davide Sangiorgi. On the complexity of termination inference for processes. In Gilles Barthe and Cédric Fournet, editors, *TGC*, volume 4912 of *Lecture Notes in Computer Science*, pages 140–155. Springer, 2007.
- [2] Romain Demangeon, Daniel Hirschhoff, and Davide Sangiorgi. Static and dynamic typing for the termination of mobile processes. In Giorgio Ausiello, Juhani Karhumäki, Giancarlo Mauri, and C.-H. Luke Ong, editors, *IFIP TCS*, volume 273 of *IFIP*, pages 413–427. Springer, 2008.
- [3] Romain Demangeon, Daniel Hirschhoff, and Davide Sangiorgi. Mobile processes and termination. In Jens Palsberg, editor, *Semantics and Algebraic Specification*, volume 5700 of *Lecture Notes in Computer Science*, pages 250–273. Springer, 2009.
- [4] Romain Demangeon, Daniel Hirschhoff, and Davide Sangiorgi. Termination in higher-order concurrent calculi. In Farhad Arbab and Marjan Sirjani, editors, *FSEN*, volume 5961 of *Lecture Notes in Computer Science*, pages 81–96. Springer, 2009.
- [5] Romain Demangeon, Daniel Hirschhoff, and Davide Sangiorgi. Termination in higher-order concurrent calculi. *J. Log. Algebr. Program.*, 79(7):550–577, 2010.
- [6] Romain Demangeon, Daniel Hirschhoff, and Davide Sangiorgi. Termination in impure concurrent languages. In Paul Gastin and François Laroussinie, editors, *CONCUR*, volume 6269 of *Lecture Notes in Computer Science*, pages 328–342. Springer, 2010.
- [7] Romain Demangeon, Daniel Hirschhoff, and Davide Sangiorgi. Strong normalisation for lambda-calculi with references. In *FSEN*, 2011. (*to appear*).
- [8] Romain Demangeon and Kohei Honda. Full abstraction in a pi-calculus with linear types. In *CONCUR*, 2011. (*to appear*).