

# Matthieu PERRIN, Ph.D

University of Nantes, LINA (Laboratoire d'Informatique de Nantes – Atlantique)

## Civil status

**Name** Perrin  
**First Names** Matthieu, Pierre, Marie  
**Sex** Male  
**Date of birth** 26/04/1989

## Contact

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## Education

**2012-2016** PhD student at the University of Nantes, France.  
**2010-2012** Research master in computer science at ENS Cachan and University of Rennes 1.  
**2009-2010** Bachelor's degree in computer sciences at the Brittany Extension of ENS Cachan (computer sciences and telecommunication departement) and University of Rennes 1.  
**2007-2009** CPGE MPSI-MP\* at lycée Pothier in Orléans, France.  
**2007** Scientific Baccalauréat (A-levels) speciality Mathematics, with mention Very Good.

## Research experiences

**September 2012-May 2016** PhD thesis at LINA, University of Nantes, France, on the theme "Specification of shared objects in wait-free distributed systems", directed by Claude Jard (Ae-LoS team) and Achour Mostéfaoui (GDD team).  
**February-June 2012** Research internship in the Myriads team, INRIA/IRISA, Rennes, France, on the theme "Efficient search algorithms for a peer-to-peer chemical machine", conducted by Cédric Tedeschi (Myriads team) and Marin Bertier (ASAP team).  
**May-August 2011** Research internship at NCSA, University of Illinois at Urbana-Champaign, USA, on the theme "Leveraging high level I/O interface to improve astrophysics simulations performance", conducted by Franck Cappello.  
**May-July 2010** Research internship in the Symbiose project, INRIA/IRISA, Rennes, France, on the theme "Grammar encoding of D.N.A. sequences", conducted by François Coste.

## Students advising

**Olivier Ruas** "Pre-doctoral" 4 month-internship on the theme "Weak Consistency Criteria : Conception and Implementation", co-advised by Achour Mostefaoui  
**Damien Maussion** Master (first year) full semester project, followed by a 2 month-internship on the theme "Update Consistency for Data Integrity in Distributed Data Bases", co-advised by Hala Skaf-Molli

## Teaching

**Computer architecture** (Bachelor's degree, third year). Tutorial (20 hours) and Practical work (32 hours)  
**Introduction to computer sciences** (Bachelor's degree, first year). Tutorial (17 hours) and Practical work (112 hours)  
**Introduction to algorithms** (Bachelor's degree, first year). Tutorial (20 hours)

## Life of research

**ED STIM's council** representant of PhD students (2014-2016) at the council of the doctoral school STIM (Sciences and Techniques of Informatics and Mathematics)

**Login Board member** secretary (2012-2013) and vice-secretary (2013-2015) of the association of young researchers in computer sciences of Nantes

## Publications

### International journal

**IJFCS** Marin Bertier, Matthieu Perrin and Cédric Tedeschi, *On the Complexity of Concurrent Multiset Rewriting*. International Journal of Foundations of Computer Sciences, 2016

### International conferences (long papers)

**DISC'16** Matthieu Perrin, Matoula Petrolia, Achour Mostéfaoui and Claude Jard, *On Composition and Implementation of Sequential Consistency*. 30th International Symposium on Distributed Computing, 2016

**SRDS'16** Davide Frey, Achour Mostefaoui, Matthieu Perrin, Pierre-Louis Roman and François Taïani, *Speed for the elite, consistency for the masses : differentiating eventual consistency in large-scale distributed systems*. 35th Symposium on Reliable Distributed Systems, 2016

**PPoPP'16** Matthieu Perrin, Achour Mostéfaoui and Claude Jard, *Causal Consistency : Beyond Memory*. 21st ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming, 2016

**IPDPS'15** Matthieu Perrin, Achour Mostéfaoui and Claude Jard, *Update Consistency for Wait-free Concurrent Objects*. 29th IEEE International Parallel and Distributed Processing Symposium, 2015

**NETYS'15** Matthieu Perrin, Claude Jard and Achour Mostéfaoui, *Tracking Causal Dependencies in Web Services Orchestrations Defined in ORC*. 3rd International Conference on NETWORK sYSTEMS, 2015

### International conferences (short papers)

**DISC'14** Matthieu Perrin, Achour Mostéfaoui and Claude Jard, *Brief Announcement : Update Consistency in Partitionable Systems*. 28th International Symposium on Distributed Computing, 2014

### French-speaking conference (poster)

**MSR'13** Matthieu Perrin, Claude Jard and Achour Mostéfaoui, *Construction d'une sémantique concurrente par instrumentation d'une sémantique opérationnelle structurelle*. Modélisation des Systèmes Réactifs, 2013

### Deliverables for the ANR project SocioPlug (research reports)

1. Davide Frey, Roy Friedman, Achour Mostfaoui, Matthieu Perrin, Michel Raynal and François Taïani, *D.1.1 – Survey on Weak Consistency Approaches for Large-Scale Systems*, 2015.
2. Davide Frey, Achour Mostefaoui, Matthieu Perrin and François Taïani, *D.1.2 – Modular quasi-causal data structures*, 2015.