

# Paulin Fournier

Postdoctoral researcher

T (+33) 06 33 47 69 71

B paulin.fournier@gmail.com

Born the 19 september 1989 in Ganges (34)

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## Academic

### Publications

- ICALP'17 **On Reversible Transducers**, *L. Dartois, P. Fournier, I. Jecker and N. Lhote*, International Colloquium on Automata, Languages, and Programming (ICALP 2017), Warsaw, Poland.
- CONCUR'15 **Distributed local strategies in broadcast networks**, *N. Bertrand, P. Fournier and A. Sangnier*, Conference on Concurrency Theory (CONCUR 2015), Madrid, Spain.
- FoSSaCS'14 **Playing with probabilities in reconfigurable broadcast networks**, *N. Bertrand, P. Fournier and A. Sangnier*, Foundations of Software Science and Computation Structures (FOSSACS 2014), Grenoble, France.
- FSTTCS'13 **Parameterized verification of many identical probabilistic timed processes**, *N. Bertrand and P. Fournier*, IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2013), Guwahati, India.

### Talks

- Cassting'16 **Approximation of extremal probabilities in infinite MDP**, Cassting'16, Eindhoven, Netherlands.
- Cassting'15 **Playing with probabilities in parameterized networks**, Cassting'15, Paris, France.
- CONCUR'13 **Parameterized verification of networks with many identical probabilistic timed processes**, YR-CONCUR 2013, Buenos Aires, Argentina.
- GT-Verif'13 **Parameterized Verification of Probabilistic Networks**, Groupe de Travail sur la Vérification, Paris, France.
- Movep13 **Parameterized verification of networks with many identical probabilistic processes**, School for young researchers about Modelling and Verifying Parallel processes (MOVEP), Marseille, France.

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## Experience

### Research

- Currently **1 year Postdoc**, *Méthodes Formelles Team*, Laboratoire Bordelais de Recherche en Informatique, Bordeaux.  
- Satisfiability of PCTL\*
- 2016 **6 months Postdoc**, *Parosh Aziz Abdulla Team*, Department of Information Technology, Uppsala University, Sweden.  
- Probabilistic register automata
- December 17 **P.h.d thesis defence**, *IRISA Rennes*, Reviewers: Parosh Abdulla, Jérôme Leroux, Jury: 2015 Saddek Bensalem, Joost-Pieter Katoen, Sophie Pinchinat, Parosh Abdulla, Nathalie Bertrand, Thierry Jéron, Jérôme Leroux, Arnaud Sangnier.  
- Parameterized verification of networks of many identical processes
- 2012-2015 **P.h.d. thesis**, *Team SUMO*, INRIA Rennes, Supervisors : Nathalie Bertrand, Thierry Jéron.  
- Parameterized verification of probabilistic systems

- 2012 **5-month internship**, *Computer Science Department*, Liverpool University, England, Supervisor : Nathalie Bertrand.  
- Parametrized verification of protocols on wireless sensor networks
- 2011 **3-month internship**, *Department of Information Technology*, Uppsala University, Sweden, Supervisors : Parosh Aziz Abdulla and Mohamed Faouzi Atig.  
- Timed asynchronous programs
- 2010 **2-month internship**, *project-team Distribcom*, INRIA / ENS / CNRS Rennes-Bretagne Atlantique, Supervisor : Claude Jard.  
- Abstraction in Petri nets and treatment of invisible loops during unfolding

## Teaching

- 2014-2015 **ENS/University of Rennes 1**, *Compilation*, Second year ENS (M1), tutorial and practical works.
- 2013-2015 **ENS**, *Modélisation*, Préparation a l'Agregation ENS (M2), tutorial/practical works (OCaml).
- 2012-2015 **ENS**, *Logique et Calculabilité*, First year ENS (L3), tutorial.
- 2013-2014 **INSA**, *Modélisation et tests de structures de données*, Third year (L3), practical works (introduction to Java).
- 2012-2013 **INSA**, *Informatique 1*, First year (L1), practical works (introduction to Scheme).

## Studies

- 2011-2012 **Third year of the Computer Science and Telecommunications magister**, *Ecole Normale Supérieure de Cachan - Brittany extension*, France.  
- second (last) year of the research in computer science master specialism (MRI) in the University of Rennes 1. (rank: 3/45)
- 2010-2011 **Second year of the Computer Science and Telecommunications magister**, *Ecole Normale Supérieure de Cachan - Brittany extension*, France.  
- first year of the computer science master in the University of Rennes 1. (rank : 12/54)
- 2009-2010 **First year of the Computer Science and Telecommunications magister**, *Ecole Normale Supérieure de Cachan - Brittany extension*, France.  
- Bachelor of Computer Science (University of Rennes 1).
- 2007-2009 **"Classes préparatoires aux grandes écoles"**, *Lycee Joffre, Montpellier*, France.

## Event organization

- 2013 **MSR'13**, *Rennes*, France.
- 2014 **8<sup>th</sup> Festival science en cour[t]s**, *Rennes*, France.
- 2015 **9<sup>th</sup> Festival Science en cour[t]s**, *Rennes*, France.

## Languages

French Native  
English Fluent

## Computer skills

OS Linux/Unix, Windows programming Caml, C/C++, Java  
scientific Matlab, Maple

## Other Interests

Sport Badminton, Sailing, Squash, Bike, Climbing (level : 6b French scale), Aïkido, ...  
Others Reading, Movies, Theatre, ...