

Curriculum vitae - September 10, 2016

Patrick GARDY

Birth : 31/05/1990

French citizen

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Positions

- Oct 2013-... PHD student (CNRS affiliated) at LSV laboratory on a grant from the European Research Council project EqualIS.
- 2009 Summer job as a receptionist in a DIY store. Bricorama (Villejust, France)

Education

- 2013... PHD student at LSV laboratory (Cachan, France) under the supervision of Patricia Bouyer and Nicolas Markey. In the domain of formal methods for software verification, I study multi-objectives temporal logics for multi-agents systems. I am especially interested by extensions of the ATL^* logic that can handle multiples objectives at once.
- 2011-2013 Master of *Mathematical Logic and the Foundations of Computer Science (LMFI)* with high honours (french equivalent ‘bien’) at Université de Paris-Diderot 7, Paris.
2013 Three months¹ Master internship at GREYC laboratory (Caen, France) on *Well-Balanced MSO Picture Languages* under Pr. Etienne Grandjean supervision. The MSO hierarchy collapse on picture languages through the use of unbalanced pictures: the language separating the k and $k + 1$ levels of the MSO hierarchy is made of pictures whose width is a tower of exponentials in the length. I was studying MSO expressiveness over well balanced picture languages (where the width is polynomial in the length).
- 2008-2011 Licence of *Applied Mathematics* at Université de Paris-Sud 11, Orsay.
2010 One semester abroad at the National University of Singapore (NUS) through a bilateral agreements between NUS and Paris-Sud 11.

Teaching experience

- 2014-2016 C programming project (62 hours) for first year students at IUT de Cachan

¹Three months is the standard length for math master’s internship, computer science ones are usually longer.

- 2015-2016 Tutoring in Math. (24 h), Course+exercises classes (22h) for first year students at IUT de Cachan

Languages

French (mother tongue) and English (written and spoken)

Programming Skills

C, HTML, Latex, OCaml, Matlab, PHP, Python, Sage

Publications

Journals

- Patricia Bouyer, Patrick Gardy, and Nicolas Markey. On the semantics of strategy logic. *Information Processing Letters*, 116(2):75–79, February 2016

International conferences

- Patricia Bouyer, Patrick Gardy, and Nicolas Markey. Quantitative verification of weighted Kripke structures. In Franck Cassez and Jean-François Raskin, editors, *Proceedings of the 12th International Symposium on Automated Technology for Verification and Analysis (ATVA'14)*, volume 8837 of *Lecture Notes in Computer Science*, pages 64–80, Sydney, Australia, November 2014. Springer
- Patricia Bouyer, Patrick Gardy, and Nicolas Markey. Weighted strategy logic with boolean goals over one-counter games. In Prahladh Harsha and G. Ramalingam, editors, *Proceedings of the 35th Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS'15)*, volume 45 of *Leibniz International Proceedings in Informatics*, pages 69–83, Bangalore, India, December 2015. Leibniz-Zentrum für Informatik

Master thesis

- Patrick Gardy. Hierarchie mso et langages d'images bien proportionnées. Master's thesis, Paris Diderot 7 university (Paris, France), 2013

Seminars and Working Groups

- Seminar of Lifeware INRIA's project (INRIA Saclay). Unnatural dependencies in the boolean goal strategy logic, 2016
- Working group Vasco-Mexico at LSV laboratory (Cachan). Non-behavioural temporal logics, 2015
- Student sessions at MOVEP summer school (Nantes). Deciding temporal logics with numerical assertions, 2014
- Workshop GT-Verif (Paris). Temporal logic with sum and average assertions, 2014