

Nicolas Markey

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Curriculum

Vitae

2004- CNRS full-time researcher at LSV (*Lab. Spécification et Vérification*), UMR 8643, ENS Cachan & CNRS.

2003-2004 INRIA Post-doctoral researcher at the Computer Science Department at *Université Libre de Bruxelles*, in Jean-François Raskin's team "Formal Methods and Verification".

2000-2003 "Allocataire Moniteur Normalien" (PhD student) in Computer Science at LIFO (*Laboratoire d'Informatique Fondamentale d'Orléans*), Orléans University & CNRS FRE 2490.

- PhD title:
"Temporal Logics for Verification: Expressiveness, Complexity, Algorithms"
- PhD defense Jury:
 - François LE BERRE (co-advisor)
 - Philippe SCHNOEBELEN (co-advisor)
 - Ahmed BOUAJJANI (reviewer)
 - Colin STIRLING (reviewer)
 - Pierre WOLPER (president)
 - Jean-Philippe ANKER (examiner)

1996-2000 Student at *École Normale Supérieure de Cachan*.

2000 : "**D.E.A.**" in Computer Science, with high distinction. Master thesis at LSV, about "Complexity of temporal logics with past", with co-advisors François LAROUSSINIE and Philippe SCHNOEBELEN.

1999 : "**Agrégation**" in mathematics.

1998 : "**Maîtrise**" in mathematics, university Paris 7, with distinction.

"**Maîtrise**" in computer science, university Paris 7, with high distinction.

1997 : "**Licence**" in mathematics, *École Normale Supérieure de Cachan*.

1994-1996 Student in *Classes Préparatoires aux Grandes Écoles*, at *Lycée Sainte Geneviève*, Versailles.

1994 *Baccalauréat* in mathematics, with high distinction.

Publications

International Journals

- [BCM10] Patricia Bouyer, Fabrice Chevalier, and Nicolas Markey. **On the expressiveness of TPTL and MTL**. *Information and Computation*, 208(2):97–116, February 2010.
- [DDMR08] Martin De Wulf, Laurent Doyen, Nicolas Markey, and Jean-François Raskin. **Robust safety of timed automata**. *Formal Methods in System Design*, 33(1-3):45–84, December 2008.
- [BLM08] Patricia Bouyer, Kim G. Larsen, and Nicolas Markey. **Model checking one-clock priced timed automata**. *Logical Methods in Computer Science*, 4(2:9), June 2008.
- [LMO08] François Laroussinie, Nicolas Markey, and Ghassan Oreiby. **On the expressiveness and complexity of ATL**. *Logical Methods in Computer Science*, 4(2:7), May 2008.
- [MR06] Nicolas Markey and Jean-François Raskin. **Model checking restricted sets of timed paths**. *Theoretical Computer Science*, 358(2-3):273–292, August 2006.
- [BBM06] Patricia Bouyer, Thomas Brihaye, and Nicolas Markey. **Improved undecidability results on weighted timed automata**. *Information Processing Letters*, 98(5):188–194, June 2006.
- [MS06] Nicolas Markey and Philippe Schnoebelen. **Mu-calculus path checking**. *Information Processing Letters*, 97(6):225–230, March 2006.
- [LMS06] François Laroussinie, Nicolas Markey, and Philippe Schnoebelen. **Efficient timed model checking for discrete-time systems**. *Theoretical Computer Science*, 353(1-3):249–271, March 2006.
- [Mar04a] Nicolas Markey. **Past is for free: On the complexity of verifying linear temporal properties with past**. *Acta Informatica*, 40(6-7):431–458, May 2004.
- [MS04] Nicolas Markey and Philippe Schnoebelen. **A PTIME-complete matching problem for SLP-compressed words**. *Information Processing Letters*, 90(1):3–6, January 2004.
- [Mar03a] Nicolas Markey. **Temporal logic with past is exponentially more succinct**. *EATCS Bulletin*, 79:122–128, February 2003.

International Conferences

- [BFLM10] Patricia Bouyer, Uli Fahrenberg, Kim G. Larsen, and Nicolas Markey. **Timed automata with observers under energy constraints**. In *Proceedings of the 13th International Conference on Hybrid Systems: Computation and Control (HSCC'10)*, Stockholm, Sweden, April 2010. ACM Press. To appear.
- [BDMR09] Patricia Bouyer, Marie Duflot, Nicolas Markey, and Gabriel Renault. **Measuring permissivity in finite games**. In *Proceedings of the 20th International Conference on Concurrency Theory (CONCUR'09)*, volume 5710 of *Lecture Notes in Computer Science*, pages 196–210, Bologna, Italy, September 2009. Springer.

- [BDLM09] Thomas Brihaye, Arnaud Da Costa, François Laroussinie, and Nicolas Markey. **ATL with strategy contexts and bounded memory**. In *Proceedings of the Symposium on Logical Foundations of Computer Science (LFCS'09)*, volume 5407 of *Lecture Notes in Computer Science*, pages 92–106, Deerfield Beach, FL, USA, January 2009. Springer.
- [BBBM08] Nathalie Bertrand, Patricia Bouyer, Thomas Brihaye, and Nicolas Markey. **Quantitative model-checking of one-clock timed automata under probabilistic semantics**. In *Proceedings of the 5th International Conference on Quantitative Evaluation of Systems (QEST'08)*, pages 55–64, Saint Malo, France, September 2008. IEEE Computer Society Press.
- [BFL⁺08] Patricia Bouyer, Uli Fahrenberg, Kim G. Larsen, Nicolas Markey, and Jiří Srba. **Infinite runs in weighted timed automata with energy constraints**. In *Proceedings of the 6th International Conference on Formal Modelling and Analysis of Timed Systems (FORMATS'08)*, volume 5215 of *Lecture Notes in Computer Science*, pages 33–47, Saint-Malo, France, September 2008. Springer.
- [BMOW08] Patricia Bouyer, Nicolas Markey, Joël Ouaknine, and James Worrell. **On expressiveness and complexity in real-time model checking**. In *Proceedings of the 35th International Colloquium on Automata, Languages and Programming (ICALP'08) – Part II*, volume 5126 of *Lecture Notes in Computer Science*, pages 124–135, Reykjavik, Iceland, July 2008. Springer.
- [BGMR08] Thomas Brihaye, Mohamed Ghannem, Nicolas Markey, and Lionel Rieg. **Good friends are hard to find!** In *Proceedings of the 15th International Symposium on Temporal Representation and Reasoning (TIME'08)*, pages 32–40, Montréal, Canada, June 2008. IEEE Computer Society Press.
- [BMR08] Patricia Bouyer, Nicolas Markey, and Pierre-Alain Reynier. **Robust analysis of timed automata via channel machines**. In *Proceedings of the 11th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS'08)*, volume 4962 of *Lecture Notes in Computer Science*, pages 157–171, Budapest, Hungary, March-April 2008. Springer.
- [BMO⁺08] Patricia Bouyer, Nicolas Markey, Joël Ouaknine, Philippe Schnoebelen, and James Worrell. **On termination for faulty channel machines**. In *Proceedings of the 25th Annual Symposium on Theoretical Aspects of Computer Science (STACS'08)*, volume 1 of *Leibniz International Proceedings in Informatics*, pages 121–132, Bordeaux, France, February 2008. Leibniz-Zentrum für Informatik.
- [BM07] Patricia Bouyer and Nicolas Markey. **Costs are expensive!** In *Proceedings of the 5th International Conference on Formal Modelling and Analysis of Timed Systems (FORMATS'07)*, volume 4763 of *Lecture Notes in Computer Science*, pages 53–68, Salzburg, Austria, October 2007. Springer.
- [BLMO07] Thomas Brihaye, François Laroussinie, Nicolas Markey, and Ghassan Oreiby. **Timed concurrent game structures**. In *Proceedings of the 18th International Conference on Concurrency Theory (CONCUR'07)*, volume 4703 of *Lecture Notes in Computer Science*, pages 445–459, Lisbon, Portugal, September 2007. Springer.
- [BMOW07] Patricia Bouyer, Nicolas Markey, Joël Ouaknine, and James Worrell. **The cost of punctuality**. In *Proceedings of the 22nd Annual IEEE Symposium on Logic in Computer Science (LICS'07)*, pages 109–118, Wrocław, Poland, July 2007. IEEE Computer Society Press.
- [LMO07] François Laroussinie, Nicolas Markey, and Ghassan Oreiby. **On the expressiveness and complexity of ATL**. In *Proceedings of the 10th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS'07)*,

- volume 4423 of *Lecture Notes in Computer Science*, pages 243–257, Braga, Portugal, March 2007. Springer.
- [BLM07] Patricia Bouyer, Kim G. Larsen, and Nicolas Markey. **Model-checking one-clock priced timed automata**. In *Proceedings of the 10th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS'07)*, volume 4423 of *Lecture Notes in Computer Science*, pages 108–122, Braga, Portugal, March 2007. Springer.
- [BLMR06] Patricia Bouyer, Kim G. Larsen, Nicolas Markey, and Jacob Illum Rasmussen. **Almost optimal strategies in one-clock priced timed automata**. In *Proceedings of the 26th Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS'06)*, volume 4337 of *Lecture Notes in Computer Science*, pages 345–356, Kolkata, India, December 2006. Springer.
- [LMO06] François Laroussinie, Nicolas Markey, and Ghassan Oreiby. **Model checking timed ATL for durational concurrent game structures**. In *Proceedings of the 4th International Conference on Formal Modelling and Analysis of Timed Systems (FORMATS'06)*, volume 4202 of *Lecture Notes in Computer Science*, pages 245–259, Paris, France, September 2006. Springer.
- [BMR06] Patricia Bouyer, Nicolas Markey, and Pierre-Alain Reynier. **Robust model-checking of linear-time properties in timed automata**. In *Proceedings of the 7th Latin American Symposium on Theoretical Informatics (LATIN'06)*, volume 3887 of *Lecture Notes in Computer Science*, pages 238–249, Valdivia, Chile, March 2006. Springer.
- [BCM05] Patricia Bouyer, Fabrice Chevalier, and Nicolas Markey. **On the expressiveness of TPTL and MTL**. In *Proceedings of the 25th Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS'05)*, volume 3821 of *Lecture Notes in Computer Science*, pages 432–443, Hyderabad, India, December 2005. Springer.
- [MS04a] Nicolas Markey and Philippe Schnoebelen. **Symbolic model checking for simply-timed systems**. In *Proceedings of the Joint Conferences Formal Modelling and Analysis of Timed Systems (FORMATS'04) and Formal Techniques in Real-Time and Fault-Tolerant Systems (FTRTFT'04)*, volume 3253 of *Lecture Notes in Computer Science*, pages 102–117, Grenoble, France, September 2004. Springer.
- [DDMR04] Martin De Wulf, Laurent Doyen, Nicolas Markey, and Jean-François Raskin. **Robustness and implementability of timed automata**. In *Proceedings of the Joint Conferences Formal Modelling and Analysis of Timed Systems (FORMATS'04) and Formal Techniques in Real-Time and Fault-Tolerant Systems (FTRTFT'04)*, volume 3253 of *Lecture Notes in Computer Science*, pages 118–133, Grenoble, France, September 2004. Springer.
- [LMS04] François Laroussinie, Nicolas Markey, and Philippe Schnoebelen. **Model checking timed automata with one or two clocks**. In *Proceedings of the 15th International Conference on Concurrency Theory (CONCUR'04)*, volume 3170 of *Lecture Notes in Computer Science*, pages 387–401, London, UK, August 2004. Springer.
- [MR04] Nicolas Markey and Jean-François Raskin. **Model checking restricted sets of timed paths**. In *Proceedings of the 15th International Conference on Concurrency Theory (CONCUR'04)*, volume 3170 of *Lecture Notes in Computer Science*, pages 432–447, London, UK, August 2004. Springer.
- [DCMM04] Jennifer M. Davoren, Vaughan Couthard, Nicolas Markey, and Thomas Moor. **Non-deterministic temporal logics for general flow systems**. In *Proceedings of the 7th International Conference on Hybrid Systems: Computation and Control*

(*HSCC'04*), volume 2993 of *Lecture Notes in Computer Science*, pages 280–295, Philadelphia, Pennsylvania, USA, March 2004. Springer.

- [MS03] Nicolas Markey and Philippe Schnoebelen. **Model checking a path (preliminary report)**. In *Proceedings of the 14th International Conference on Concurrency Theory (CONCUR'03)*, volume 2761 of *Lecture Notes in Computer Science*, pages 251–265, Marseilles, France, August 2003. Springer.
- [Mar02] Nicolas Markey. **Past is for free: On the complexity of verifying linear temporal properties with past**. In *Proceedings of the 9th International Workshop on Expressiveness in Concurrency (EXPRESS'02)*, volume 68 of *Electronic Notes in Theoretical Computer Science*, pages 87–104, Brno, Czech Republic, August 2002. Elsevier Science Publishers.
- [LMS02b] François Laroussinie, Nicolas Markey, and Philippe Schnoebelen. **Temporal logic with forgettable past**. In *Proceedings of the 17th Annual IEEE Symposium on Logic in Computer Science (LICS'02)*, pages 383–392, Copenhagen, Denmark, July 2002. IEEE Computer Society Press.
- [LMS02a] François Laroussinie, Nicolas Markey, and Philippe Schnoebelen. **On model checking durational Kripke structures (extended abstract)**. In *Proceedings of the 5th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS'02)*, volume 2303 of *Lecture Notes in Computer Science*, pages 264–279, Grenoble, France, April 2002. Springer.
- [LMS01] François Laroussinie, Nicolas Markey, and Philippe Schnoebelen. **Model checking CTL⁺ and FCTL is hard**. In *Proceedings of the 4th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS'01)*, volume 2030 of *Lecture Notes in Computer Science*, pages 318–331, Genova, Italy, April 2001. Springer.

Other Publications

- [MLRS10] Nicolas Markey, Shuhao Li, Jean-François Raskin, and Mariëlle Stoelinga. Synthesizing controllers with bounded resources. Deliverable 3.4, QUASIMODO project (ICT-FP7-STREP-214755), January 2010.
- [MBD⁺09] Nicolas Markey, Jasper Berendsen, Alexandre David, Tingting Han, Holger Hermanns, Kim G. Larsen, and Martin Neuhäüßer. Symbolic data structures and analysis of models with multiple quantitative aspects. Deliverable 2.2, QUASIMODO project (ICT-FP7-STREP-214755), July 2009.
- [CM09] Franck Cassez and Nicolas Markey. **Control of timed systems**. In *Communicating Embedded Systems – Software and Design*, chapter 3, pages 83–120. Wiley-ISTE, October 2009.
- [BLLM09] Patricia Bouyer, François Laroussinie, Didier Lime, and Nicolas Markey. Synthesis of timed controllers. Deliverable 1.2a, projet DOTS (ANR-06-SETI-003), March 2009.
- [BKL⁺09] Patricia Bouyer, Joost-Pieter Katoen, Rom Langerak, François Laroussinie, Nicolas Markey, and Jean-François Raskin. Transfer of correctness from models to implementation. Deliverable 3.1, QUASIMODO project (ICT-FP7-STREP-214755), January 2009.

- [CM08] Franck Cassez and Nicolas Markey. *Contrôle des systèmes temporisés*. In *Approches formelles des systèmes embarqués communicants*, chapter 4, pages 105–144. Hermès, October 2008.
- [Mar08] Nicolas Markey. *Timed systems – model checking and games*. Invited tutorial, 8th School on Modelling and Verifying Parallel Processes (MOVEP’08), Nouanle-Fuzelier, France, June 2008.
- [Mar06] Nicolas Markey. Verification of multi-agent systems with ATL. Invited talk, FNRS meeting on "Synthesis and Verification", October 2006.
- [LM06] François Laroussinie and Nicolas Markey. *Expressiveness of temporal logics*. Introductory course, 18th European Summer School in Logic, Language and Information (ESSLLI’06), Málaga, Spain, July-August 2006.
- [AMRT05] Karine Altisen, Nicolas Markey, Pierre-Alain Reynier, and Stavros Tripakis. *Implémentabilité des automates temporisés*. In *Actes du 5ème Colloque sur la Modélisation des Systèmes Réactifs (MSR’05)*, pages 395–406, Autrans, France, October 2005. Hermès. Invited paper.
- [MS04b] Nicolas Markey and Philippe Schnoebelen. *TSMV: A symbolic model checker for quantitative analysis of systems*. In *Proceedings of the 1st International Conference on Quantitative Evaluation of Systems (QEST’04)*, pages 330–331, Enschede, The Netherlands, September 2004. IEEE Computer Society Press.
- [Mar04b] Nicolas Markey. *TSMV: model-checking symbolique de systèmes simplement temporisés*. In *Actes du 6ème Atelier sur les Approches Formelles dans l’Assistance au Développement de Logiciels (AFADL’04)*, pages 349–352, Besançon, France, June 2004.
- [Mar03b] Nicolas Markey. *Logiques temporelles pour la vérification: expressivité, complexité, algorithmes*. Thèse de doctorat, Laboratoire d’Informatique Fondamentale d’Orléans, France, April 2003.
- [Mar00] Nicolas Markey. Complexité de la logique temporelle avec passé. Rapport de DEA, DEA Algorithmique, Paris, France, June 2000.

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Teaching

Schools

- *Real-time model checking*, course at the ARTIST school QMC’10 with Patricia Bouyer-Decitre and Kim G. Larsen;
- *Timed Systems – Model Checking and Games*, course at summer school MOVEP’08;
- *Implementability of Timed Controllers*, course at summer school ETR’07, joint lecture with Franck Cassez;
- *Expressiveness of temporal logics*, introductory course at ESSLLI’06, joint lecture with François Laroussinie.

Lectures

- *Weighted timed automata*, part 2 of course M2.8 (2nd year *Master*) at MPRI, Fall 2008;
- *Branching-time temporal logics*, part 1b of course M2.8 (2nd year *Master*) at MPRI, oct. 2007;

- *Temporal logics*, part 1 of course M2.8 (2nd year *Master*) at MPRI, Fall 2006;

Practical work

- *Mathematics for Computer Science*, practical work in 1st year "DEUG MIAS";
- *Mathematics for Computer Science*, practical work in 1st year "DEUG MIAS" and 2nd year "DEUG MASS";
- *Mathematics for Computer Science*, practical work in 1st year "DEUG MASS" and 2nd year "DEUG SM";

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Master and PhD students

Post-docs

- Thomas Brihaye, 2006-2007 (co-advised with Patricia Bouyer);
- Delphine Longuet, 2008-2009 (co-advised with Patricia Bouyer);
- Michael Ummels, 2010 (co-advised with Patricia Bouyer);

PhD students

- Ghassan Oreiby, "temporal logics for timed control", 2005-2008 (co-advised with François Laroussinie). PhD defended on 08 December 2008.
- Arnaud Da Costa Lopes, PhD student on "properties of multi-player games", 2007-2010 (co-advised with François Laroussinie).
- Romain Brenguier, PhD student on "equilibria in timed games", 2009-2012 (co-advised with Patricia Bouyer).

Visiting PhD students

- Claus Thrane, PhD student at Aalborg University (Denmark). 6-month visit (feb.-aug. 2010) on "links between robustness and metrics in timed automata", with Patricia Bouyer-Decitre.
- Jörg Olschewski, PhD student at Aachen University (Germany). 6-month visit (mar.-sep. 2010) on "*mixed objectives in weighted games*", with Patricia Bouyer-Decitre.

Master students

- Ocan Sankur, Master student on "robustness and implementability of timed systems", 2010 (co-advised with Patricia Bouyer).
- Romain Brenguier, Master student on "equilibria in timed games", 2009 (co-advised with Patricia Bouyer).
- Arnaud Da Costa Lopes, Master student on "properties of multi-player games", 2007 (co-advised with François Laroussinie).
- Guyslain Naves, Master student on "complexity of the reachability problem for two-clock timed automata", 2006 (co-advised with Patricia Bouyer).

Undergraduate students

- Gabriel Renault, student at ENS Lyon, on "optimal multi-strategies", 2008 (co-advised with Patricia Bouyer).

- Mohamed Ghannem, student at National School of Computer Science of Tunis (Tunisia), on “computing optimal coalitions”, 2007 (co-advised with Thomas Brihaye).
- Lionel Rieg, student at ENS Lyon, on “quantitative games and optimal coalitions”, 2007 (co-advised with Thomas Brihaye).

PhD Defence committee

- Martin De Wulf (jury member): *From Timed Automata to Timed Implementations* (PhD advisor: Jean-François Raskin).
- Ghassan Oreiby (PhD co-advisor) : *Logiques temporelles pour le contrôle temporisé*.

Administrative tasks

- Director of TEMPO research group (from 2009);
- Organizer of the TEMPO internal seminar from 2007 to 2009;
- Member of the management committees of the laboratory
- Former member of the “commission de spécialistes” in Computer Science, ENS Cachan.
- Member of the “comité de sélection” (recruiting jury) in Computer Science at ENS Cachan in 2009.

Workshops and Conferences

Program Committees

- Co-chair of TIME’10 Program Committee (2010)
- Co-chair of GASICS’09 Program Committee (2009)
- Member of TIME’09 Program Committee (2009)
- Member of M4M-5 Program Committee (2007)
- Member of FORMATS’07 Program Committee (2007)
- Member of FORMATS’06 Program Committee (2006)

Conference organization

- Organizer of the TIME’10 conference (Paris, France, Sep. 2010)
- Co-organizer of the GASICS’09 workshop (Grenoble, France, June 2009)
- Co-organizer of conference FORMATS’06 (Cachan, France, Sep. 2006)
- Co-organizer (maintainance of web site and registration server) for winter school MOVEP’04 (Brussels, Belgium, Dec. 2004)
- Co-organizer (maintainance of web site and registration server) for workshop INFINITY’03 (Marseilles, France, Aug. 2003)
- Co-organizer (maintainance of web site and registration server) for summer school MOVEP’02 (Nantes, France, June 2002)
- Co-organizer (maintainance of web site, submission- and registration servers) for conference CSL’01 (Paris, France, Sep. 2001)
- Co-organizer (maintainance of web site, submission- and registration servers) for conference CAV’01 (Paris, France, July 2001)

Article reviews

- Article reviews for the following conferences and workshops: CSL'02, CAV'02, FORMATS'03, FoSSaCS'04, FORMATS+FTRTFT'04, TACAS'05, LICS'05, CIAA'05, MFCS'05, LICS'06, CONCUR'06, FORMATS'06, FSTTCS'06, HSCC'07, MFCS'07, CONCUR'07, FORMATS'07, FSTTCS'07, FoSSaCS'08, TACAS'08, ICALP'08, CONCUR'08, FSTTCS'08, STACS'09, FoSSaCS'09, CAV'09, ICALP'09, CONCUR'09, FORMATS'09, FOCS'09, FSTTCS'09, FoSSaCS'10, TACAS'10, HSCC'10, LICS'10, ICALP'10 ...
- Article reviews for the following journals: Information Processing Letters (IPL), International Journal of Foundations of Computer Science (IJFCS), Journal Logic & Computation (JLC), Journal of Philosophical Logic (JPL), Journal Systems & Software (JSS), Logical Methods in Computer Science (LMCS), IEEE Transactions on Automatic Control (TAC), Theoretical Computer Science (TCS), ACM Transactions on Computational Logic (ToCL).

Talks and seminars

- Conference presentations: FoSSaCS'01, FoSSaCS'02, EXPRESS'02, Concur'03, AFADL'04, Concur'04, FORMATS+FTRTFT'04, QEST'04, FST&TCS'05, FST&TCS'06, FORMATS'07, TIME'08, FORMATS'08.
- Seminars: RWTH (Aachen, Germany), DCIS (Konstanz, Germany), EPFL (Lausanne, Switzerland), LIAFA (Paris, France), LaBRI (Bordeaux, France), IRISA (Rennes, France), VERIMAG (Grenoble, France), ULB (Brussels, Belgium), OUCL (Oxford, UK), ANU (Canberra, Australia), ...
- Invited talks: FNRS meeting on "Synthesis and Verification" (Brussels, Oct. 2006);
- Several talks at working groups: GdR ALP, LSV-LaBRI, LSV/Tempo, ...

Participation to projects

- Member (and local manager) of the European project **QUASIMODO** ("Quantitative System Properties in Model-Driven Design of Embedded Systems")(2008-2011);
- Member (and principal investigator) of the European project **GASICS** ("Games for Analysis and Synthesis of Interactive Computational Systems")(2008-2011);
- Member of project ANR **DOTS** ("Distributed, Open and Timed Systems") (2007-2010);
- Co-head of project IFR Farman **TOAST** ("Théorie des jeux, Outils de l'automatique, de l'Algorithmique et du Signal pour les Télécommunications") (2007-2008);
- Co-head of project IFR Farman **TOAST2** ("Théorie des jeux, Outils de l'automatique, de l'Algorithmique et du Signal pour les Télécommunications") (2008-2009);
- Member of **ACI CORTOS** ("Control and Observation of Real-Time Open Systems") (2003-2006);
- Participation to project **VSMT** with LURPA (ENS Cachan);
- Member of **ACI CHRONO** (2001-2004).

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**Stays in foreign
countries**

- 1-year post-doctoral stay at *Université Libre de Bruxelles*, Brussels, Belgium.
- 4-week stay in Australia (Department of Electrical and Electronic Engineering, University of Melbourne and Computer Sciences Laboratory, Australian National University in Canberra).

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Miscellaneous

At LSV:

- Author and maintainer of the **publication list** system at LSV (BibT_EX, L^AT_EX, Sed & Awk, PHP),
- Author and maintainer of the "ordre de mission" management tool at LSV (L^AT_EX, PHP),
- Head of InstSoft/SOS group (software updates, LSV "hotline"),

Outside LSV:

- Co-author of the (new) French **L^AT_EX F.A.Q.**, author of a BibT_EX documentation, author of some L^AT_EX packages.
- Former manager of the Climbing Club at ENS Cachan (2001-2003,2004-2008)