

# CURRICULUM VITAE

Bastien Maubert, born February 26, 1987 in Nantes, France.

## Education

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- 10/2010 - 01/2014** **PhD in Computer Science**, *Université de Rennes 1*  
Title of the thesis: *Logical foundations of games with imperfect information: uniform strategies*.  
Supervised by Sophie Pinchinat and Guillaume Aucher.  
Jury composed of Joseph Y. Halpern (president), Christof Löding (referee), Ram Ramanujam (referee), Dietmar Berwanger, Thomas Bolander, Cătălin Dima, Sophie Pinchinat and Guillaume Aucher.
- 09/2007 - 06/2009** **Master's degree in Computer Science, with honours**  
*ENS Rennes*
- 09/2006 - 06/2007** **Bachelor's degree in Computer Science, with high honours**  
*ENS Rennes - Université de Rennes 1*
- 09/2004 - 06/2006** **Preparatory classes for entrance to Grandes Ecoles**  
*Lycée Chateaubriand, Rennes*  
Accepted at Ecole Normale Supérieure (ENS) de Rennes, formerly Brittany extension of ENS Cachan
- 06/2004** **Scientific Baccalauréat, with high honours**  
*Lycée Julliot de la Morandière, Granville*

## Current position

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- 04/2016 - today** Postdoctoral position in Università degli Studi di Napoli Federico II.  
I am the principal investigator of the project LoGicInMAS (Logics and Games for Imperfect Information in Multi-Agent Systems), for which I hold a Marie-Curie Individual Fellowship.

## Past position

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- 09/2014 - 02/2015** CNRS postdoc position in the ERC funded project Epistemic Protocol Synthesis, lead by Hans van Ditmarsch in LORIA, Nancy.

## Miscellaneous / gaps

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- 04/2015 - 03/2016** **(Chosen) unemployment period**  
After my position in Nancy and my visit in Carlos Areces' team in Cordoba, and before moving to Napoli, I chose to stay in Rennes for some time. During this period I continued my research activities while being officially unemployed.
- 01/2014 - 02/2014** **Transatlantic on a sailing boat**  
21 days, from Canary islands to Guadeloupe
- 03/2010 - 09/2010** **Six months journey in South America**  
Brasil, Argentina, Chile, Bolivia, Peru, Paraguay
- 09/2009 - 02/2010** **Temporary agent at IRISA, Rennes (Team S4)**  
Implementation of a verification tool based on modal specifications, supervised by Benoît Caillaud

## Teaching

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2011/2012, 2012/2013	<b>Tutorials – Program Design and Verification</b> ENS Rennes, postgraduate
2011/2012, 2012/2013	<b>Tutorials – Logic and Calculability</b> ENS Rennes, undergraduate
2012/2013	<b>Tutorials – Introduction to LaTeX</b> ENS Rennes, undergraduate
2010/2011, 2011/2012	<b>Lectures and tutorials – Introduction to Compilation</b> Université de Rennes 1, undergraduate
2010/2011	<b>Tutorials – Data Structures</b> INSA de Rennes, undergraduate
2009/2010	<b>Tutorials – Functional Programming</b> INSA de Rennes, undergraduate

## Other academic activities

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### Paper reviews:

Conferences: GandALF 2013, AAMAS 2013, WoLLIC 2013, CLIMA 2014, GandALF 2014, ICLA 2015, TACAS 2015, LICS 2015, TARK 2015, LORI 2015, RV 2015, AAMAS 2016, IJCAI 2016, ECAI 2016, CSL 2016, MFCS 2016, RV 2016, AAI 2017

Journals: Journal of Logic and Computation (1), Information and Computation (2), ACM Transactions on Computational Logic (1).

### Collector for a Dagstuhl report:

VaToMAS Dagstuhl seminar 13181, 2013, Schloss Dagstuhl (Germany)

### Local organisation:

GIPSy workshop, October 25-27, 2011, IRISA (Rennes, France)

### Student supervision:

Raphaël Berthon (ENS Rennes, master student). Internship co-supervisor, June-July 2016.

## Scholarships and grants

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- 2016** Marie-Curie Individual Fellowship for the project LoGicInMAS (168,277.20€).
- 2015** MEALS travelling grant to visit Carlos Areces in Cordoba, Argentina (5320€).
- 2012** One year of so called “teaching mission” by Université de Rennes 1 ( $\simeq$  3800€).
- 2011** Three-year PhD scholarship from Ecole Normale Supérieure de Cachan.
- 2011** One year of so called “teaching mission” by Université de Rennes 1 ( $\simeq$  3800€).
- 2011** Travelling grant to visit Prof. Ramanujam in Chennai, India (800€).
- 2006** Four-year scholarship by Ecole Normale Supérieure de Cachan (formally, hired as a probationary official).

## Publications

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### In international journals:

- 2015** **Uniform strategies, rational relations and jumping automata**  
L. Bozzelli, B. Maubert and S. Pinchinat  
*Information and Computation*, vol. 242. Special issue for SR 2013.
- 2014** **A general notion of uniform strategies**  
B. Maubert and S. Pinchinat  
*International Game Theory Review*, vol. 16(01). Special issue for LOFT 2012.

[In international conferences with program committee:](#)

- 2016 On the impact of modal depth in epistemic planning**  
T. Charrier, B. Maubert and F. Schwarzenruber  
IJCAI, International Joint Conference on Artificial Intelligence
- 2015 Games with Communication: from Belief to Preference Change**  
G. Aucher, B. Maubert, S. Pinchinat and F. Schwarzenruber  
PRIMA, Principles and Practice of Multi-Agent Systems
- Relating paths in transition systems: the fall of the modal mu-calculus**  
C. Dima, B. Maubert and S. Pinchinat  
MFCS, Mathematical Foundations of Computer Science
- Asynchronous announcements in a public channel**  
S. Knight, B. Maubert and F. Schwarzenruber  
ICTAC, International Colloquium on Theoretical Aspects of Computing
- Unifying Hyper Logic and Epistemic Temporal Logic**  
L. Bozzelli, B. Maubert and S. Pinchinat  
FoSSaCS, Foundations of Software Science and Computation Structures
- 2013 Jumping automata for uniform strategies**  
B. Maubert and S. Pinchinat  
FSTTCS, Foundations of Software Technology and Theoretical Computer Science
- 2012 Generalized DEL-sequents**  
G. Aucher, B. Maubert and F. Schwarzenruber  
JELIA, European Conference on Logics in Artificial Intelligence
- Uniform strategies**  
B. Maubert and S. Pinchinat  
LOFT, Conference on Logic and the Foundations of Game and Decision Theory

[In international workshops with program committee:](#)

- 2015 Games with Communication: from Belief to Preference Change**  
G. Aucher, B. Maubert, S. Pinchinat and F. Schwarzenruber  
SR, Strategic Reasoning (no published proceedings)
- Dealing with imperfect information in Strategy Logic**  
S. Knight and B. Maubert  
SR, Strategic Reasoning (no published proceedings)
- 2014 Automata techniques for epistemic protocol synthesis**  
G. Aucher, B. Maubert and S. Pinchinat  
SR, Strategic Reasoning
- 2013 The complexity of synthesizing uniform strategies**  
B. Maubert, S. Pinchinat and L. Bozzelli  
SR, Strategic Reasoning
- 2011 Tableau method and NEXPTIME-completeness of DEL-sequents**  
G. Aucher, B. Maubert and F. Schwarzenruber  
M4M, Methods for Modalities
- Opacity issues in games with imperfect information**  
B. Maubert, S. Pinchinat and L. Bozzelli  
GandALF, Symposium on Games, Automata, Logics and Formal Verification
- 2009 Games with opacity condition**  
B. Maubert and S. Pinchinat  
RP, Reachability Problems

## Talks

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### **Games with Communication: from Belief to Preference Change**

22/09/2015: SR 2015 (Oxford, England)

### **Dealing with imperfect information in Strategy Logic**

21/09/2015: SR 2015 (Oxford, England)

### **Relating paths in transition systems: the fall of the modal mu-calculus**

28/08/2015: MFCS 2015 (Milano, Italy)

17/09/2015: Highlights of Logic, Games and Automata (Prague, République Tchèque)

08/09/2016: ICTCS 2016 (Lecce, Italy)

### **Automata techniques for epistemic protocol synthesis in DEL**

06/04/2014: SR 2014 (Grenoble, France)

26/08/2014: Workshop Epistemic Protocol Synthesis (Rennes, France)

03/09/2014: Highlights of Logic, Games and Automata (Paris, France)

### **Logical foundations of games with imperfect information: uniform strategies**

17/01/2014: Soutenance de thèse, IRISA (Rennes, France)

### **Uniform strategies, rational relations and jumping automata**

07/12/2013: GIInAL, IMSc (Chennai, India)

### **Jumping automata for uniform strategies**

18/06/2013: GT Vérif, ENS Cachan (Paris, France)

04/07/2013: GT FORWAL, Université Paris 6 (Paris, France)

12/12/2013: FSTTCS 2013 (Guwahati, India)

### **The complexity of synthesizing uniform strategies**

17/03/2013: SR 2013 (Rome, Italy)

### **Uniform strategies**

21/11/2012: IRIT (Toulouse, France)

29/04/2013: Séminaire Dagstuhl VaToMAS, Schloss Dagstuhl (Germany)

### **Introduction to Dependence Logic**

20/07/2012: Formal methods update meeting, CMI (Chennai, India)

### **Towards a notion of uniform strategies**

18/06/2012: LOFT 2012 (Sevilla, Spain)

11/07/2012: TCS Colloquium, IMSc (Chennai, India)

20/09/2012: GT Jeux 2012, ENS Cachan (Paris, France)

### **Tableau method and NEXPTIME-completeness of DEL-sequents**

11/11/2011: M4M 7 (Osuna, Spain)

### **Uniform strategies**

26/10/2011: GIPSy workshop, IRISA (Rennes, France)

### **Opacity issues in games with imperfect information**

15/06/2011: GandALF 2011 (Minori, Italy)

### **Games with opacity condition**

16/09/2009: Séminaire 68NQRT, IRISA (Rennes, France)

24/09/2009: RP 2009, Ecole Polytechnique (Palaiseau, France)

## Languages

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**French** (Mother-tongue), **English** (Fluent), **Spanish** (Fluent), **Italian** (Intermediate).