Michell Guzmán

PERSONAL INFORMATION

ADDRESS:	Inria Saclay - Île-de-France	
	Laboratoire d'Informatique (LIX).	
	Palaiseau, France	
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EDUCATION

CURRENT	PhD in COMPUTER SCIENCE, École Polytechnique , Paris, France Thesis: "On the Expressiveness of Spatial Constraint Systems" Advisors: Prof. Catuscia PALAMIDESSI and Dr. Frank VALENCIA
June 2014	Master in COMPUTER SCIENCE, Universidad del Valle, Santiago de Cali, Colombia Thesis, "Symbolic Model Checking for NTCC" Advisore, Dr. Carles Otente and
	Dr. Jesús Aranda
Nov 2011	Systems Enginner at Universidad del Valle, Santiago de Cali, Colombia
	Thesis: "Modelling the HIV Life Cycle" Advisors: Prof. Juan Francisco DIAZ and
	Dr. Jesús Aranda
Nov 2008	Information Systems Technologist at Universidad del Valle, Santiago de Cali, Colombia

Work Experience

Nov 2014 Current	PhD Student at ÉCOLE POLYTECHNIQUE, Paris, France On the Expressiveness of Spatial Constraint Systems. Study the ex- pressivenes of spatial constraint systems through the characterization of modal logics, the derivation of inverse operators and the represen- tation of distributed knowledge.
Feb 2014 Ост 2014	Jr. Software Developer at ALERT LOGIC, Santiago de Cali, Colombia <i>Log Parsing Team</i> . Developing log parsers for security applications
2012-2013	Research Assistant at AVISPA RESEARCH GROUP, <i>Universidad del Valle</i> , San- tiago de Cali, Colombia. Developing a simulation tool for ntcc pro- cesses.
2011	Young Researcher at AVISPA RESEARCH GROUP, <i>Pontificia Universidad Javeriana - Cali</i> , Santiago de Cali, Colombia. Developing a new interface for the application BioWays
Scholar	SHIPS
AUG 2014 2012-2013	CORDI-S Scholarship for graduate students by INRIA, France Financial enrollment exemption for exceptional GPA. Universidad del Valle.

LANGUAGES

Spanish	Mother tongue
English	Fluent
French	Fluent

TOOLS AND FRAMEWORKS

Lisp, Python, C/C++, MOZart, Java, PHP, Ajax, Sql , Matlab/Scilab, LTFX

RESEARCH INTERESTS

RESEARCH INTERESTS Modal and Epistemic Logics, Formal Verification, Process Calculi, Domain Theory, Algebra, Bioinformatics

SERVICE TO THE PROFESSION

SUB-REVIEWER FOR	FORTE 2015, PPDP 2015.
Organization	Member of the Organization Committee of the 12th International
	Colloquium on Theoretical Aspects of Cumputing, Cali, Colombia, 2015.

SCHOOLS AND RESEARCH VISITS

Nov 2016 Research Visit at Uppsala University, Uppsala, Sweden
OCT 2016 13th Inter. Colloquium on Theoretical Aspects of Cumputing, Taipei, Taiwan
OCT 2016 32nd Inter. Conference on Logic Programming, New York City, USA
OCT 2015 12th Inter. Colloquium on Theoretical Aspects of Cumputing, Cali, Colombia

PUBLICATIONS

- [1] Jaime Arias, Michell Guzmán, and Carlos Olarte. A symbolic model for timed concurrent constraint programming. *Electronic Notes in Theoretical Computer Science*, 312:161–177, 2015.
- [2] Davide Chiarugi, Moreno Falaschi, Diana Hermith, Michell Guzman, and Carlos Olarte. Simulating signalling pathways with bioways. *Electronic Notes in Theoretical Computer Science*, 293:17–34, 2013.
- [3] Michell Guzmán, Stefan Haar, Salim Perchy, Camilo Rueda, and Frank D. Valencia. Belief, knowledge, lies and other utterances in an algebra for space and extrusion. J. Log. Algebr. Meth. Program., 86(1):107–133, 2017.
- [4] Michell Guzmán, Salim Perchy, Camilo Rueda, and Frank D. Valencia. Deriving inverse operators for modal logic. In *Theoretical Aspects of Computing - ICTAC 2016 - 13th International Colloquium, Taipei, Taiwan, ROC, October 24-31, 2016, Proceedings, pages 214–232, 2016.*
- [5] Michell Guzmán and Frank D. Valencia. On the expressiveness of spatial constraint systems. In Technical Communications of the 32nd International Conference on Logic Programming, ICLP 2016 TCs, October 16-21, 2016, New York City, USA, pages 16:1–16:12, 2016.

SUBMITTED PAPERS

[6] Michell Guzman, , Salim Perchy, Camilo Rueda, and Frank Valencia. Deriving Extrusion on Constraint Systems from Concurrent Constraint Programming Process Calculi. Submitted to the Journal of Teoretical Computer Science (TCS), April 2017.