

Patricio Reyes Valenzuela

Personal Information

Date of Birth October 31st, 1977

Country of Citizenship Chile

Marital Status Single

Education

2009 Ph.D. in Computer Science. [INRIA](#) – [Sophia Antipolis](#). Project [MASCOTTE](#), Joint Project [INRIA/I3S\(CNRS – U. Nice\)](#). Université de Nice, France.

2003 Mathematical Engineer (Masters Equivalent) Universidad de Chile. Santiago, Chile.

2000 Bachelor in Engineering Sciences, Major in Mathematics. Universidad de Chile. Santiago, Chile.

1983 – 1994 Colegio Marambio. Melipilla. (Elementary, Middle and High School). Melipilla, Chile.

Languages

Spanish Native.

English Written and spoken. TOEFL 230 (CBT).

French Intermediate (4 years in France).

Research Interests

Wireless Mesh Networks: Gathering, Routing&Scheduling.

Computational Complexity Theory.

Approximation Algorithms.

Combinatorial Optimization.

Information Retrieval.

For an extended version, please visit

http://www-sop.inria.fr/members/Patricio.Reyes/curriculum_extended_eng.pdf

**Scientific
Publications**

- 2009
conference *A. Silva, P. Reyes, M. Debbah. [Congestion in Randomly Deployed Wireless Ad-Hoc and Sensor Networks](#). In *International Conference on Ultra Modern Telecommunication 2009 (ICUMT09)*. St Petersburg, October, 2009.*
- 2009
conference *J.-C. Bermond, N. Nisse, P. Reyes, and H. Rivano. [Minimum Delay Data Gathering in Radio Networks](#). In *AdHocNow09*, September 2009.*
- 2009
thesis *[Data Gathering in Radio Networks](#). INRIA/I3S(CNRS – U. Nice). Advisor: Jean-Claude Bermond. August 2009.*
- 2009
conference *J.-C. Bermond, N. Nisse, P. Reyes, and H. Rivano. [Fast Data Gathering in Radio Grid Networks](#). In *11èmes Rencontres Francophones sur les Aspects Algorithmiques de Télécommunications (AlgoTel)*, June 2009.*
- 2008
conference *C. Gomes, S. Pérennes, P. Reyes, and H. Rivano. [Bandwidth Allocation in Radio Grid Networks](#). In *10èmes Rencontres Francophones sur les Aspects Algorithmiques de Télécommunications (AlgoTel)*, May 2008.*
- 2008
conference *C. Gomes, C. Molle, and P. Reyes. [Optimal Design of Wireless Mesh Networks](#). In *9èmes Journées Doctorales en Informatique et Réseaux (JDIR 2008)*, Villeneuve d'Ascq, France, January 2008.*
- 2007
conference *C. Gomes, C. Molle, P. Reyes, and H. Rivano. [Models for Optimal Wireless Mesh Network Design](#). In *The 22nd European Conference on Operational Research (EURO XXII)*, Prague, July 2007.*
- 2007
conference *C. Gomes, C. Molle, P. Reyes, and H. Rivano. [Placement Optimal de points d'accès dans les réseaux radio maillés](#). In *Neuvièmes Rencontres Francophones sur les Aspects Algorithmiques des Télécommunications (AlgoTel'07)*, Ile d'Oléron, France, May 2007.*
- 2003
journal **Journal:** Oscar Barrientos, Rafael Correa, Patricio Reyes and Álvaro Valdebenito. [A Branch & Bound Method for Solving Integer Separable Concave Problems](#). *Computational Optimization and Applications* 26 (2): 155-171, November 2003.
- In preparation
journal **Journal:** J.-C. Bermond, R. Klasing, N. Morales, P. Reyes, S. Pérennes. Gathering Radio Messages in the Path.

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	In preparation journal	Journal: J.-C. Bermond, C. Gomes, P. Reyes, H. Rivano, S. Pérennes. The Round Weighting Problem in Grids.	
	In preparation	J.-C. Bermond, P. Reyes, H. Rivano, S. Pérennes, J. Yu. The Round Weighting Problem in Cycles.	
Conferences and Seminars Attended	2009	Speaker in AdHocNow 2009 , September 2009. Murcia, Spain.	
	2009	Speaker in Algotel 2009 , June 2009. Carry-Le-Rouet, France.	
	2009	Speaker in Aladdin Meeting , June 2009. La Rochele, France.	
	2008	Adhoc-Now 2008 . September 10-13, 2008. Sophia Antipolis, France.	
	2008	Speaker in Algotel 2008 , May 2008. Saint Malo, France.	
	2008	4ème Journées JCALM . June 5-6, 2008. Sophia Antipolis, France.	
	2008	3èmes Journées JCALM . January 28, 2008. LIF Marseille, France.	
	2007	Algotel 2007, May 2007. Ile d'Oleron, France.	
	2006	InterSense 2006. May 30-31, 2006. Nice, France.	
	2003	Speaker in “3rd Congress of Chilean Mathematic Engineering Students”. Concepción, Chile.	
	2000	“USA – CHILE Workshop on Nonlinear Analisis”. Viña del Mar. Chile.	
	Schools	2006	ResCom 2006. June 11-16, 2006. Porquerolles, France. Speaker in students session.

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Teaching Experiences (Selected)	2005	“Algebra”. Andrés Bello University, Chile. Lecturer.
	2005	“Advanced Calculus”. Andrés Bello University, Chile. Lecturer.
	2001	“Optimization”. School of Engineering and Sciences. Universidad de Chile, Santiago, Chile. Teaching Assistant.
	2000	“Applied Mathematics”. School of Engineering and Sciences. Universidad de Chile. Teaching Assistant.
	1999	“Calculus I”. School of Engineering and Sciences. Universidad de Chile, Santiago, Chile. Teaching Assistant.
Professional Experiences (Selected)	2004	External Consultant in “Pangolin Market Research”, Chile.
	2004	Member of Project “Tutorias.cl”. (http://www.tutorias.cl). Dept of Mathematics and Centre for Mathematical Modelling-CMM.
	2003	Researcher for IM2 and CMM about Copper Refinement. IM2, Research Division of CODELCO (http://www.im2.cl) (http://www.codelco.cl) CMM ¹ , Centre for Mathematical Modeling (http://www.cmm.uchile.cl).
	2002	“Traffic Analysis of ENTEL WILL Users”. ENTEL WILL (http://www.entelwill.cl). ENTEL.
Computational Skills	Programming	C, C++, Java, Matlab, CPLEX (C libraries), Flash.
	Math Software	Matlab, Maple, Mathematica, CPLEX (AMPL), Latex.
	Statistical Software	Statistica, SPSS, Decision Time.
	OS user	Linux, Windows, MacOS.

¹ Centre for Mathematical Modeling, CMM. UMI 2807 CNRS-University of Chile.