

Curriculum Vitae

Name: Marcelo Cunha dos Santos

Nationality: Brazilian

Born: October 6, 1969

Degree: Master of Science in Complex Adaptive Systems

Native language: Portuguese

Foreign languages ability: proficiency in English, and
(coming soon) Swedish

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Main activities

since October/06: PhD. Student within the PROGRESS Centre for Predictable Embedded Software Systems, Department of Computer Science and Electronics, Mälardalen University, Sweden. Supervisor: Björn Lisper. Assistant supervisors: Jan Gustafsson and Andreas Ermedahl.

May/03 to April/06: Assistant Professor at the Computing Science Department, State University of Santa Cruz, Ilheus-BA, Brazil.

August/01 to December/02: Master student at Chalmers University of Technology, International Master's Programme in Complex Adaptive Systems, department of Physical Resource Theory. Reserch project: *Modelling of the pharynx neural network of the nematode C. elegans*. Scholarship grant from the STINT Foundation. Gothenburg, Sweden. Supervisor: Kristian Lindgren. Assistant supervisor: Marc Pilon.

November/00 to July/01: Systems Analyst at INPE - National Institute for Space Research, Celestial Mechanics Division (real-time telemetry data aquisition and processing). Grant from CNPq. São José dos Campos-SP, Brazil.

October/98 to December/99: Systems Analyst at INPE - National Institute for Space Research, Ground Systems Division (software for satellite control - attitude and orbit calculations - and real-time telemetry data aquisition and processing). Grant from FUNCATE. São José dos Campos-SP, Brazil.

March/96 to September/98: Master in Computer Science, Federal University of Rio Grande do Sul, Informatics Institute: research and dissertation on theory of computation, doing research in formal relations between sintactic and semantic categories of graph grammars and petri nets, Porto Alegre-RS, Brazil. Supervisor:

Daltro José Nunes. Assistant supervisor: Leila Ribeiro.

November/94 to October/95: Research Assistant at the Federal University of Pernambuco, Informatics Department, Gamma Group, working on the programming of a compiler for the functional programming language ML, Recife-PE, Brazil.

March/92 to February/93 and from August/93 to July/94: Research Initiationscholarship in the project *Functional Programming - Theory and Implementation*, at the Federal University of Uberlandia, Informatics Department, Uberlandia-MG, Brazil. Supervisor: Sérgio de Mello Schneider.

August/88 to June/94: Bachelor in Computer Science, Federal University of Uberlandia, Informatics Department, Uberlandia-MG, Brazil.

Participation in Schools and Symposiums

1. *MOTIVES Winter School: MOdelling, TestIng, and Verification for Embedded Systems*, Feb. 2007, Trento, Italy.
2. *CASTNESS'07 Workshop and School: Computing Architectures and Software Tools for Numerical Embedded Scalable Systems*, Jan. 2007, Rome, Italy.
3. *GKSS School of Environmental Research: Environmental Crises - Science and Policy*, Nov. 2005, Helgoland, Germany.
4. *ICCL Summer School on Logic-based Knowledge Representation*, Jul. 2005, Dresden Technical University, Dresden, Germany.
5. *IFAC Summer School on Control, Computing and Communication*, Jun. 2005, Czech Technical University, Prague, Czech Republic.
6. *Pernambuco School on Software Engineering: Refinement*, Nov. 2004, Golden Beach Hotel, Recife-PE, Brazil, sponsored by United Nations University UNU-IIST, The University of York and Centro de Informática UFPE.
7. *Brazilian Symposium on Formal Methods - SBMF2004*, Nov. 2004, Golden Beach Hotel, Recife-PE, Brazil.
8. *ACM-ICPC South America Contest w/ Brazil*, Oct. 2004, UFMG, Belo Horizonte-MG, Brazil. Coach for the teams CEPEDI-1 and CEPEDI-2.
9. *XXIV Brazilian Computer Society Congress: Integration and Regional Differences - the role of Computing*, Jul. 2004, Centro de Convenções, Salvador-BA, Brazil.

Publications:

1. Santos, MC (2002) *Modelling of the C. elegans pharyngeal neural network*. Chalmers University of Technology, Physical Resource Theory Dept. Gothenburg, Sweden. Master's dissertation.
2. Fonseca IM, Bainum PM, Santos MC (2001) CPU time consideration for LSS structural/control optimization models with different degrees of freedom. *Acta Astronautica*, Vol. 54 (4), pp 259-266. Available online at www.sciencedirect.com
3. Fonseca IM, Santos MC (2000) SACI-2 Attitude Control Subsystem. *Advances in Space Dynamics 3 - Applications in Astronautics*. São José dos Campos, SP, Brazil.
4. Fonseca IJ, Santos MC, Neri JACF (1999) On the Attitude Dynamics of the Second Brazilian Scientific Satellite SACI-2. *IAF - 50th International Astronautical Federation Congress*. Amsterdam, Holland.
5. Santos MC (1999) *Formal Relationships between Graph Grammars and Petri Nets*. UFRGS, Informatics Institute. Porto Alegre, RS, Brazil. Master's Dissertation. (in Portuguese)
6. Santos MC (1997) *Introduction to Graph Grammars*. Technical Report. (in Portuguese)
7. Santos MC (1996) *Introduction to the Formal Method OBJ*. Technical Report. (in Portuguese)
8. Santos MC (1995) *Introduction to the Functional Language ML*. Technical Report. (in Portuguese)
9. Santos MC (1993) *Functional Programming Theory*. Technical Report. (in Portuguese)