

Diego Herbin Stalder Díaz

*Phd Candidate Applied Computing,
Paraguayan with Brazilian Permanent
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Home Page at IAP

Education

- November 2015-2016 **Sandwich Phd**, *Paris Institute of Astrophysics (IAP)*, France, *Working on Environmental effects on galaxies probed with MAGGIE.*
Advisor: D.S. Gary Mamon
- March 2013-2017 **Phd**, *National Institute for Space Research (INPE)*, Brazil, *Computing and Applied Mathematics.*
Theses: Bayesian Surface Photometry Analysis with GALPHAT Advisors: D.S. Reinaldo Roberto Rosa and D.S. Reinaldo de Carvalho
- March 2011-2013 **Master**, *National Institute for Space Research (INPE)*, Brasil, *Master in Computing and Applied Mathematics.*
A New Simulator for Computational Cosmology Using GPUs Advisors: D.S. Reinaldo Roberto Rosa and D.S. Renata Sampaio da Rocha Ruiz.
- 2004-2010 **Bachelor**, *Engineering School, National University Asunción*, Paraguay, *Electronic Engineering* .
Final Project: Optimal boundary control parareal algorithm for cooling electronics circuits Advisor: D.S. Christian Emilio Schaerer Serra.

Languages

Spanish	Native
Guarani	Native
English	Professional Proficiency
Portuguese	Professional Proficiency
French	Elemental Proficiency

Skill and Experience

Data analysis with R and Python, *Experience Developing Software in C, C++, CUDA, Fortran e Java(Eclipse,JUnit). Test-Driven Development (TDD), Linux High performance computing and scripting Bash, C shell, Control system modeling and analysis with MATLAB e Simulink.*
Symbolic Computation with Mathematica

Publications

Conference Poster , *XX Ciclo de Cursos Especiais-Rio de Janeiro, 5 a 9 de outubro de 2015* , Fast Bayesian Galaxy Photometry of ETGs, [Link](#).

Conference Poster , *14th International Conference, Guimarães, Portugal, June 30 – July 3, 2014, Proceedings, Part VI*, A Strategy to Workload Division for Massively Particle-Particle N-body Simulations on GPUs, [Link](#).

Master Theses, A New Simulator for Computational Cosmology Using GPUs, [Link](#).

Conference Paper, *THE SIXTH INTERNATIONAL SCHOOL ON FIELD THEORY AND GRAVITATION-2012, Petrópolis - RJ, Brazil*, A new gravitational N-body simulation algorithm for investigation of cosmological chaotic advection, [Link](#).

Conference Paper, *THE SIXTH INTERNATIONAL SCHOOL ON FIELD THEORY AND GRAVITATION-2012, Petrópolis - RJ, Brazil*, An alternative singularity-free cosmological scenario from cusp geometries, [Link](#).

Conference Poster, *Workshop on Computational and Applied Mathematics for Engineering*, Optimal boundary control parareal algorithm for cooling electronics circuits, [Link](#).

BA final year project, Optimal boundary control parareal algorithm for cooling electronics circuits, [Link](#).

Complementary Education

2006-2008 **CCNA 1-4 Cisco Certified Networking Associated -Networking Basics**, *Academia Cisco, Engineering School*, Paraguay, 320h.

2008 Ago-Dic **Linux System Administration and Configuration**, *Engineering School*, Paraguay, 110h.

Experience Professional

2009-2010 **Newtwork Manager and Webmaster**, *Scientific and applied Computing Laboratory - Polytechnic School, National University Asunción*, Paraguay.
[Link](#)

2008-2010 **Control System - Teacher assistant**, *Eng. Higinio César Moreira - Engineering School, National University Asunción*, Paraguay, Continuous-time control systems, frequency response, root-locus, and state-space approach to analysis and design of control systems with MATLAB.

2007-2010 **System Analysis- Teacher assistant**, *Eng. Higinio César Moreira - Engineering School, National University Asunción*, Paraguay, Physical system modelling.

2006-2010 **Physics - Teacher assistant**, *Dsc. Baran Cegla, Engineering School, National University Asunción*, Paraguay, Physical Optics and Special Relativity.