

+++ title = "CV Extended" description = "Here you can see my extended CV"  
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[taxonomies] tags = ["Features"] [extra] keywords = "Resume, Résumé, CV,  
Resumo" toc = false +++

# Luis Ricardo Martinez Diaz

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Specialties: C++, Python, Linux, Operations Research  
Doctor in Computer Science and Mathematics

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## Corporate Experience

Since 2013 : *Data Scientist for [Airconomy](#)* (Frankfurt am Main, Germany).

Data mining on various sources to forecast passenger demands over  
airline networks.

2009-2012 : *PhD in Operations Research with [Amadeus](#)* (Sophia Antipolis, France).

Researched how to assign aircraft on an airline network in the most  
efficient way. I authored several projects, including a C++ solver,  
a Python suite of 20+ command line tools, and Hadoop data mining  
scripts. I also worked as a teaching assistant at the university,  
further improving my communication and public speaking skills.

2008 (3 months) : *Internship at [Rio Tinto Alcan](#)* (Clermont Ferrand, France).

Co-authored a C++ library for optimizing the revenue of a metal  
factory. This work was published in the corporate journal of the  
company.

2007 (3 months) : *Internship at [GE Healthcare](#)* (Paris, France).

Elaborated an UML spec for the refactoring of 20.000 lines of C++.

## Selected Open Source Contributions

Python : Contributor to [pulp-or](#), a linear programming Python library. Author of small tools, like [michel](#), a command line program providing bidirectionnal synchronization of google tasks with text files.

C++ : Author of [yaposib](#), a Python binding to COIN-OSI that is now supported by [pulp-or](#).

C : Author of [lazympsolverlibs](#), a set of proxy libraries targeting cplex, gurobi and xpress. I also started writing [sharebox](#), a distributed FUSE file system based on git.

Java : Author of [talkmyphone](#), an android application allowing phone control via gtalk. It had 10.000+ downloads, and was forked 50 times. It was then successfully handed over to [other developers](#).

Misc : Lua, Ada, Bash, Makefile, m4, autotools, cmake... See my [github résumé](#). My [kudorank](#) on ohloh is 9, among the top 2% of opensource developers.

Linux : My daily operating system: I [blog](#) about it sometimes.

## Education

2009-2012 : *PhD in Mathematics and Computer Science at G-SCOP Laboratory* (Grenoble, France).

Title: Integration of Fleet Deployment and of Passenger Service in Airline Schedule Management. Done at Amadeus, in the Operation Research team led by [Semi Gabteni](<http://www.linkedin.com/in/semigabteni>). Advisors: [Denis Naddef](<http://www.g-scop.inpg.fr/~naddefd/>), [Olivier Briant](<http://www.g-scop.inpg.fr/~brianto/index.php?page=1>). Defended in January 2013.

2005-2009 : *MS in Computer Science in ENSIMAG* (Grenoble, France).

Top French school of Applied Mathematics and Computer Science with highly selective recruitment.

2002-2005 : *Preparatory classes in Lycée Thiers* (Marseille, France).

Mathematics and Physics courses before a national competitive examination to Grandes Écoles.

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[ngawang.monlam@gmail.com](mailto:ngawang.monlam@gmail.com) • +55 11 93301 4430.

Rua 29 de Outubro N°33 - 03510-000, SP, Brasil.

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