

Christophe-Marie Duquesne

Specialties: C++, Python, Linux, Operations Research
Doctor in Computer Science and Mathematics
French, willing to relocate

Corporate Experience

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](#). Advisors: [Denis Naddef](#), [Olivier Briant](#). 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.

Activities and interests

Hobbies I like travelling. I backpacked in 13 countries in Eastern Europe and South East Asia.

Sports Running, Cycling, Hiking. I also played rugby union for 7 years.

Activities I was the president of the [grand cercle](#), one of the largest French campus student associations (5.000 members) during university.

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