* Christophe-Marie Duquesne

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Specialties: C++, Python, Linux, Operations Research\ Doctor in Computer Science and Mathematics #+END\_QUOTE

\*\* Corporate Experience

* Since 2013 :: /Data Scientist for [[https://www.airconomy.com/][Airconomy]]/ (Frankfurt am Main, Germany).

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

* 2009-2012 :: /PhD in Operations Research with [[http://www.amadeus.com/amadeus/amadeus.html][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 [[http://www.riotintoalcan.com/][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 [[http://www3.gehealthcare.com/en/Global\_Gateway][GE Healthcare]]/ (Paris, France).

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

\*\* Selected Open Source Contributions

* Python :: Contributor to [[http://code.google.com/p/pulp-or/][pulp-or]], a linear programming Python library. Author of small tools, like [[https://github.com/chmduquesne/michel][michel]], a command line program providing bidirectionnal synchronization of google tasks with text files.
* C++ :: Author of [[http://yaposib.readthedocs.org/en/latest/index.html][yaposib]], a Python binding to COIN-OSI that is now supported by [[http://code.google.com/p/pulp-or/][pulp-or]].
* C :: Author of [[https://code.google.com/p/lazylpsolverlibs/][lazylpsolverlibs]], a set of proxy libraries targeting cplex, gurobi and xpress. I also started writing [[https://github.com/chmduquesne/sharebox-fs][sharebox]], a distributed FUSE file system based on git.
* Java :: Author of [[http://code.google.com/p/talkmyphone/][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 [[http://code.google.com/p/gtalksms/][other developers]].
* Misc :: Lua, Ada, Bash, Makefile, m4, autotools, cmake... See my [[http://resume.github.com/?chmduquesne][github résumé]]. My [[http://meta.ohloh.net/kudos/][kudorank]] on ohloh is 9, among the top 2% of opensource developers.
* Linux :: My daily operating system: I [[http://blog.chmd.fr][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 [[http://www.linkedin.com/in/semigabteni][Semi Gabteni]]. Advisors: [[http://www.g-scop.inpg.fr/~naddefd/][Denis Naddef]], [[http://www.g-scop.inpg.fr/~brianto/index.php?page=1][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 [[http://www.grandcercle.org][grand cercle]], one of the largest French campus student associations (5.000 members) during university.

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