

# Eduardo Mucelli | Software Engineer

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## Education

### École Polytechnique

Computer Science, Ph.D

France

October 2011 — May 2015

### Federal University of Minas Gerais

Computer Science, Master's degree

Brazil

March 2009 — July 2011

### Pontifical Catholic University of Minas Gerais

Computer Science, Bachelor's degree

Brazil

August 2004 — August 2008

### Ph.D thesis

**Title:** *From Your Routine to Better Network Services* [🔗](#)

**Supervisor:** Aline C. Viana [✉](#)

**Description:** Investigated characteristics of human mobility and their impact on the network data traffic, planning and deployment. I've analyzed large-scale datasets from mobility and traffic demands generated by millions of users. Python's multiprocessing, thread and R multi-core libraries were used to summarize and assess massive amounts of data

**Results:** Published 5 conference papers, 3 journal papers are in submission, and a created a data traffic simulator.

## Professional Experiences

### BlaBlaCar

Software Engineer

France

July 2016 – Nowadays

Developing a full-featured Java service to improve the computation of the best meeting points for drivers and passengers using Machine Learning.

### Orange

Postdoctoral Researcher

France

June 2015 – June 2016

Developed machine-learning assisted techniques to predict users' QoE based on network's KPIs.

### Dito Internet

Software Engineer

Brazil

July 2011 — September 2011

Developed in Ruby on Rails, as part of a team, Telecom Italia Mobile's project called TIM Beta, [timbeta.com.br](http://timbeta.com.br).

### Telecom Italia Future Centre

Intern

Italy

November 2010 — May 2011

Developed, in Python, a project called Future of Enterprises aiming to improve the real-time interaction among employees.

### Task Internet

Systems Analyst

Brazil

February 2008 — February 2009

Lead developer of a social network in Ruby on Rails.

## Skills

**Language:** Python, Ruby, R, Javascript, Java and Swift

**DB:** MySQL, PostgreSQL (PostGIS), and Cassandra

**VCS:** Subversion, Git, and Bazaar

**OS:** Linux, Android and OS X

**Framework:** Ruby on Rails, jQuery, Zurb Foundation, and Semantic-UI

**Others:** Machine learning, full-stack development, REST API development, and Web crawlers

## Recent publications [🔗](#)

- Oliveira, Eduardo Mucelli Rezende and Carneiro Viana, Aline and Naveen, K. P. and Sarraute, Carlos., "Mobile Data Traffic Modeling: Revealing Temporal Facets", Elsevier Computer Networks, November 2016.

- o Oliveira, Eduardo Mucelli Rezende and Carneiro Viana, Aline and Naveen, K. P. and Sarraute, Carlos and Brea, Jorge and Alvarez-Hamelin, Ignacio., "On the regularity of human mobility", Elsevier Pervasive and Mobile Computing, May 2016.

## Languages

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**Portuguese:** Native speaker

**French:** Fluent

**English:** Fluent

**Italian:** Advanced

## Web and Android Applications

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**Eazy.bike** – <http://eazy.bike> and [Android app](#)

Ruby, Python, Java (Android), and Javascript

It finds the best cycling routes using bike-sharing systems in more than 443 cities distributed in 45 countries. It considers real-time information of how many bicycles and empty bike stands are available closest to the user and to the destination address. It then chooses the best stations and route. Additionally, the Android app provides automatic redirection in case the initial destination station gets full during user's trajectory. It can be accessed by city-specific domains for improved context information, e.g., [paris.eazy.bike](#), or [london.eazy.bike](#), etc.

**Proconfie** – <http://www.proconfie.com>

Ruby, Python, and R

It helps people to choose companies based on problems presented with other customers. Received Honorary Mention award from the Brazilian Ministry of Justice. Refer to Section [Awards](#) for further information.

**CEP Aberto** – <http://www.cepaberto.com>

Ruby, Python, and Javascript

Collaborative application that aims to publicly open the Brazilian Postal Code (CEP) data. Contains information of about 1 million CEPs. It provides an API for developers and, for the end-users, a collaborative platform to improve the quality of the data. About 5 thousand registered users.

## Some Open Source Projects

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**Twitter applet** – [Code](#) 

Twitter applet for Cairo-Dock which handles most of Twitter's API features, including streaming.

**WebSearch applet** – [Code](#) 

Metasearch applet for Cairo-Dock capable of retrieving text and image results from several sources, e.g., Google, Bing, Yahoo!, Youtube, and Twitter.

**Repeat One Song** – [Code](#) 

The Repeat One Song feature for Rhythmbox.

**Translator** – [Code](#) 

Full-featured Google Translator-based translator applet for Cairo-Dock.

## Awards

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### Honorary mention

*Brazilian Ministry of Justice*

*May 2013*

Open Data Applications Contest. Lead developer of a Ruby on Rails application called Proconfie. Refer to Section [Web and Android Applications](#) for more details about this application.

### Silver Medal

*Pontifical Catholic University of Minas Gerais*

*July 2008*

Second best overall score during the bachelor.

### Honorary mention

*Pontifical Catholic University of Minas Gerais*

*May 2007*

For the work "Game Theory for Decision Making in Wireless Sensor Networks" presented in the 15<sup>th</sup> Sciences Seminar.