

# TIAGO FASSONI

PROGRAMMER, DATA SCIENTIST, ACTIVIST

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São Paulo, Brazil

## Selected Recent Projects

### Crawl of São Paulo Land Records Database

The Land Records in São Paulo are public domain, but hidden in obnoxious web systems. I created crawlers to open the dataset the hard way. There were attempts to block my crawlers (with IP blocks and CAPTCHAs), but I dodged them (also found a bug in the CAPTCHA implementation). The crawl allowed data-driven reports in local independent journalism and a collaboration with Transparency International.

### Collaborative mapping of São Paulo bike lanes

When the City Hall made a network of bike lanes, there was no way to route through them. Besides lack of software, we had a lack of data. As a developer in Mobilab and a local bicycle activist, I partnered with Citymapper and Mapillary to map them in OpenStreetMap. I ended Mapillary's Brazil ambassador and I'm making with São Paulo's Ciclocidade a map of friendly routes (not necessarily in bicycle lanes) in São Paulo using OpenStreetMap

## Professional Experience

### Freelance Developer and Data Scientist

10/2015 - nowadays

Projects involving data science, web and mobile programming for local and remote NGOs, such as Transparency International, Digital Democracy and São Paulo's Ciclocidade

### MobiLab

Generalist Programmer

10/2015 - nowadays

MobiLab is a laboratory, inside São Paulo City Hall, of technology applied to urban mobility. Inside it, I made a fully responsive and accessible website for public consultations of urban infrastructure, a website of the São Paulo bike lanes, a mapathon to put bike lanes on OpenStreetMap, and was Scrum Master of a bicycle routing app and a smartphone app for fining bad drivers

### Itaú Unibanco Bank

Business Intelligence Analyst

07/2012 - 08/2013

Database administration, automation of data capture, creation of new reports, general refactoring of old codebase. Thanks to the automated procedures I created, the time in ETL decreased from 3 hours to 10 minutes. I also authored a local Wiki for the department.

Model Validation Analyst

10/2011 - 07/2012

Validation of Credit Risk Models for the RAROC Project, part of the Basel II Project, in Itaú Bank. I worked with LGD, EAD, CEA, validating 18 calculators and gave presentations to the VP of Risk of Itaú. Also created a local Wiki.

### Instituto de Tecnologia para o 3o Setor

Programmer and Systems Administrator

01/2011 - 09/2012

Development of software in Python and Javascript. Configuration and deployment of servers. Creation of automated testing. Our team made two webapps in seven months: MootiroForm, a Form Creator tailored for use in NGOs, and MootiroVote, a "Stack Overflow-like" website for NGOs. As a member of a small team, I participated in several parts of the project, such as development, systems administration, training of testers and keynotes to general public and interested developers.

### FW Soluções Ambientais

Contractor

2009 - 2010

Configuration of Linux Servers as intranet servers, VPN server and backup solution. Also did network setup, computer assembly and general support of Windows PCs. Proofreading and mathematics revision in technical reports.

### Ubilibet (Barcelona)

Head of Technical Department

2007 - 2008

Configuration and deployment of Linux Servers using Apache, dovecot, Bind DNS and custom daemons. Creation and maintenance of custom daemons in Perl. Development of new intranet functionalities in PHP using PostgreSQL as a backend. Tech support of Windows PCs. One of my achievements has been the improvement of the spam filters, triplicating the amount of captured spam.

### National Confederation of Research Support, Brazil

Undergraduate Scholarship

2006 - 2007

Scholarship for Undergraduate Research Project on Value-at-Risk, a benchmark for risk in financial portfolios.

### Foundation for Research Support of the State of São Paulo, Brazil

Undergraduate Scholarship

2005

Scholarship for Undergraduate Research Project on Graph Theory

## Keynotes

## and Awards

### Bicultura Festival, 2016

Panelist on Panel about Collaborative Bicycle Mapping and taught a workshop on OpenStreetMap

### Python Data Science Meetup, São Paulo, 2016

Keynote about making crawlers to get the land records dataset

### State of The Map LATAM 2015 at Santiago de Chile

One Keynote about the making of a bicycle routing app and other about mapping with Mapillary

### Santander Scholarship, 2009

Undergrad Merit Scholarship given by Santander Bank for studying in Spain.

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## Volunteer Work

### OpenStreetMap Brazil

Mapper helping to organize this year's State of The Map LATAM

**2014-nowadays**

### Bike Anjo

Instructor of routes and bike maintenance

**2012-nowadays**

### Tashi Gyatso Institute

Portuguese Classes for Foreign Monks

**2009-2010**

### UNICAMP Student Residence Free Cram School

Mathematics and Physics Teacher

**2004-2005**

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## Languages

English - fluent  
Japanese - intermediate

Spanish - fluent  
Catalan - intermediate

Portuguese - fluent