Lluís Ramon Callao

Data Scientist

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Education

2013 - 2016 — **Master in Statistics and Operations Research**, *Universitat Politècnica de Catalunya - Universitat de Barcelona*, Barcelona.
Master Thesis: Using tree-based models to predict drunk driving at Police preventive checkpoints.

2002 - 2007 — **Degree in Mathematics**, *Universitat Politècnica de Catalunya*, Barcelona.
Degree that included a wide range of courses in several areas of knowledge: Pure and Applied Mathematics, Statistics and Computing.

Feb. - Jun. 2007 — **Socrates-Erasmus Exchange Program**, *Université Pierre et Marie CURIE*, Paris.
- Modules taught entirely in French.
- Attended Mathematical optimization, Epidemiology and Functional analysis.

Experience

Dec. 2007 - Present — **Road Safety and Traffic Management Engineer**, *Servei Català de Trànsit, Generalitat de Catalunya*, Barcelona.
- Statistical analysis and reporting with R in the following fields:
  - Road safety
  - Breath alcohol content enforcement
  - Speed
  - Mobility
  - Traffic congestion
  - Relationship between mobility and accidents
- Preparation of contract specifications for hiring external studies. Project management and final document supervision.
- Participation in European projects and proposals to the European Commission.
- Studying and proposing policies in the frame of the Catalan road safety plan.
- Data analysis and database management with SQL of the following DBs:
  - Road accidents (24.000 entries/year on 180 variables)
  - Road mobility (4.000.000 entries/year on 20 variables)
  - Breath alcohol content enforcement (600.000 entries/year on 15 variables)
  - Traffic congestions (24.000 entries/year on 25 variables)
- Development of a package in the R programming language to automate the following tasks:
  - Connection and data collection from DataWareHouse
  - Specialized functions for road safety and mobility data processing
  - Geographical representation of information and map generation
  - Mathematical-statistical model to treat mobility data
  - Mathematical-statistical model to treat speed data
  - Automatic report generation

Jun. 2015 — **R Programming Course**, *Datosphera*, Barcelona.
16 hours training to the technical team at Datosphera in R programming. The course was adapted to the needs of the company and to solve their data problems.

Languages

Catalan	Native proficiency
Spanish	Native proficiency
English	Full professional proficiency
French	Elementary proficiency

IT Skills

Programming	SQL, Python, TEX, Git.
Data Analysis	R, Matlab, SPSS, SAS.
OS	Windows, Mac, Linux.
BI	Microstrategy.

Courses

Apr. 2012	**Programming a Robotic Car**, *Udacity*, Online.
Mar. 2011	**Survey sampling design and analysis**, *Institut d'Estadística de Catalunya*, Barcelona.
Sep. 2010	**Public Contracts Specification**, *Escola d'Administració Pública de Catalunya*, Online.
Sep. 2009	**Agata GIS**, *Servei Català de Trànsit*, Barcelona.
May 2009	**Microstrategy Desktop**, *Microstrategy Business Intelligence*, Barcelona.
Apr. 2008	**Aimsun Foundation Course**, *Transport Simulation Systems*, Barcelona.
Feb. 2008	**Certificate of Pedagogical Aptitude**, *Universitat Politècnica de Catalunya*, Barcelona.

Publications

Apr. 2014	**Prevalence of alcohol-impaired drivers based on random breath tests in a roadside survey in Catalonia (Spain)** ⧉ , *Manuela Alcañiz, Montserrat Guillén, Miguel Santolino, Daniel Sánchez-Moscona, Oscar Llatje, Lluís Ramon*, Accident Analysis & Prevention.
Apr. 2013	**Relationships flow/speed (congestion) on the arterial road network to Barcelona** ⧉ , *Òscar Llatje, Enric Homedes, Ferran Muñoz, Lluís Ramon*, Revista Carreteras, Asociación Española de la Carretera.

Presentations

Jan. 2016	**Setting Rstudio Server using Amazon Web Services** ⧉ , *Lluís Ramon*, Barcelona R user's group, Barcelona.
Nov. 2015	**Step by step introduction to R** ⧉ , *Lluís Ramon*, Barcelona R user's group, Barcelona.
Jul. 2015	**Package development tutorial** ⧉ , *Lluís Ramon*, Barcelona R user's group, Barcelona.
Feb. 2015	**Automatic Reporting with rmarkdown** ⧉ , *Carlos Bort & Lluís Ramon*, Barcelona R user's group, Barcelona.
Apr. 2014	**Introduction to maps with R** ⧉ , *Lluís Ramon*, Barcelona R user's group, Barcelona.
Feb. 2014	**Easy Dates and Times in R** ⧉ , *Lluís Ramon*, Barcelona R user's group, Barcelona.
Apr. 2013	**Easy package development with RStudio**, *Lluís Ramon*, Barcelona R user's group, Barcelona.
Nov. 2012	**A practical introduction to ggplot2 and ggmap** ⧉ , *Andreu Vall, Roger Borras, Lluís Ramon*, IV Spanish R User Conference, Barcelona.

Oct. 2012 **Introduction to maps with R** ↗ , *Lluís Ramon*, Barcelona R user's group, Barcelona.

Jun. 2012 **Introduction to R**, *Lluís Ramon*, Barcelona R user's group, Barcelona.

Feb. 2012 **Data transformations with R**, *Lluís Ramon*, Barcelona R user's group, Barcelona.

Oct. 2009 **SIDAT: A comprehensive system for collecting road accidents data**, *Lluís Ramon*, 1st Meeting on Road Safety for Cities, Gijón.

Awards

May 2016 **Accenture Datathon 2016 - Best Accuracy Track Model** ↗ , *Predicting car accidents in Barcelona based on local police accident reports. With Carlos Bort, Jordi Puigdellivol and Jordi Zamora.*, Barcelona R user's group Team.

Nov. 2015 **Dragon City Datathon - Best Accuracy Track Model** ↗ , *Best predictive model on videogame churn with Carlos Bort, Jordi Puigdellivol and Jordi Zamora*, Barcelona R user's group Team.