

# 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

- 2016 - **Data Scientist**, *Digital Origin*, Barcelona.  
Present Digital Origin is a Fintech dedicated to consumer finance with online, automatic and paperless products.  
My main responsibility is to improve the Credit Risk Engine to reduce risk and increase customer acceptance.  
The main tasks performed are:  
○ Create Machine Learning models and new business rules  
    - Definition, importing, data manipulation and feature engineering  
    - Feature selection, model training and validation  
    - Collaborate with the development team to have the model in production  
    - Monitoring and validation of the model once it is in production  
○ Portfolio optimization to improve the trade-off between acceptance and risk  
○ Create a new returning flow to improve the associated KPIs
- 2007 - 2016 **Road Safety and Traffic Management Engineer**, *Servei Català de Trànsit, Generalitat de Catalunya*, Barcelona.  
Servei Català de Trànsit is a government agency in charge of road safety and mobility in Catalonia.  
My main responsibility was monitoring the road safety and mobility in Catalonia.  
The main tasks performed were:  
○ Automate data analysis, maps and reporting with internal R packages  
○ Data validation from road accidents, alcohol controls, speed cameras, fines, magnetic loops, etc.  
○ Design, collect and analysis of road safety policies  
○ Propose road safety policies for the Catalan Road Safety Plan  
○ Participate in European projects and make proposals to the European Commission  
○ Suppliers link and follow-up of external consultants
- 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.

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## Languages

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

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## IT Skills

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

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## 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.

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## Publications

- Oct. 2016 **Drinking patterns and drunk-driving behavior in Catalonia, Spain: A comparative study**, *Manuela Alcañiz, Miguel Santolino, Lluís Ramon*, Transportation Research Part F: Traffic Psychology and Behavior.
- 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.

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## 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 Borrás, 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.

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## Awards

- Oct. 2018 **eDreams ODIGEO Datathon - Second Best Accuracy Model**, *Predict the type of accommodation (Hotel, Hostel, Guesthouse, Apartment, etc) using several images and Google Cloud Vision tags. Team with: David Massip and Jordi Puigdemívol.*
- Oct. 2016 **Social Point Monster Legends Datathon - Best Business Insights Track**, *Best Business Insights Track and 3rd best recommender system on gaming data. Team with: Jordi Zamora, Carlos Bort and Jordi Puigdemívol.*
- May 2016 **Accenture Datathon 2016 - Best Accuracy Track Model**, *Predicting car accidents in Barcelona based on local police accident reports. Team with: Carlos Bort, Jordi Puigdemívol and Jordi Zamora.*
- Nov. 2015 **Social Point Dragon City Datathon - Best Accuracy Track Model**, *Best predictive model on video game churn. Team with: Carlos Bort, Jordi Puigdemívol and Jordi Zamora.*