

# Carlos López Roa

Senior Data Scientist

## contact

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## languages

Spanish / Native

French / C1

English / TOEFL

German / A2

Italian / A1

## programming

♥ Python, Scala,

Bash, SQL, JavaScript,

Matlab, Mathematica

## data science

Convex optimization

Factorial Analysis

Classification

Clustering

Text Mining & NLP

Regression

Decision Trees

Neural Networks

Support Vector

Machines

Probabilistic Graphical

Models

Recommendation

Systems

## mathematics

Complex & real analysis

Linear algebra

Graph Theory

Vector calculus

Ordinary & Partial

Differential Equations

Statistics & Probability

Functional analysis

Finite element analysis

Wavelet Analysis

Dynamical Systems

## Resumé

Senior Data Scientist with more than 3 years of experience. Experience with Big Data in the Spark Framework using Scala, ingesting real time traffic from Apache Kafka and reading and writing to a Apache Cassandra Database. Further modeling done in Python's scikit learn and Tensorflow for Deep Neural Networks.

## experience

- 01/20-Today **Tiime** Data Analyst  
**Keywords:** Data Warehouse, Data Ingestion, Anomaly detection  
Design, construction and operation of data ingestion engine for online analytics.  
Anomaly detection on banking transaction data
- 05/19-12/19 **Keyrus** Data Scientist  
**Keywords:** Consultant Data Science  
**Projects:** Agence de Biomedecine, Direction Générale des Finances Publiques  
Design and construction of an anomaly detection algorithm using Deep Neural Networks in the context of Big Data.
- 10/17-04/19 **Vente-privee.com** Data Scientist  
**Keywords:** Recommender systems, Apache Spark, Cassandra, Kafka  
**Projects:** Homepage and email personalisation  
Real-time personalization using recommendation system algorithms in distributed architecture. 5 Million visitors personalized per day and 6 Million emails.
- 03/17-09/17 **Société nationale des chemins de fer français (SNCF)** Data Scientist  
**Keywords:** GIS, Data Mining, Machine Learning, Deep Learning  
**Projects:** Spatiotemporal data mining: Train delay prediction  
Spatiotemporal Datawarehouse (GIS) design and implementation. Non linear regression, statistical learning and Deep Learning
- 02/15-08/15 **Dattlas - Kio Networks** Data Scientist  
**Keywords:** Big Data, SAP HANA, Business Intelligence  
**Projects:** Televisa-Izzi  
SQL Scripting for OLAP analysis and custom made KPI calculation. Implementation and support of a Data Warehouse in SAP HANA with several ETLs.  
CHURN prediction using Hidden Markov Model

## education

- 09/16-02/17 **M.Sc.** Data Mining and Knowledge Management Università Piemonte Orientale, AL, IT  
**Speciality:** Relational Data Mining
- 09/15-08/16 **M.Sc.** Data Mining and Knowledge Management Université Lumière Lyon 2, Lyon, FR  
**Speciality:** Data Mining and Complex System Modelling  
cum laude
- 10/09-04/14 **B.Sc.** Technology Center of applied Physics and advanced Technology, UNAM, Qro, MX  
*Bubble dynamics subject to novel shockwave: High speed video*  
summa cum laude, top 3 best GPA 2011, 2012

