# Sergio Ramírez Gallego

Data Scientist



Born in 1988 in Jaén, Spain



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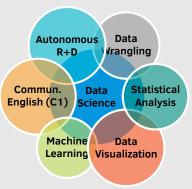
/in/sramirezg



sramirez

## Skills —

### **Overview**



#### **Programming**

→ Daily Novice -Scala • Spark • LATEX Java • Git • Flink • R C • C++ • Python • Maven

## Software —

Spark-IT-FS - A distributed feature selection framework for Apache Spark | 82 🚖

fast-mRMR - An optimized version of the mRMR feature selector for Spark and Nvidia-GPU | 34 🛊

**Spark-MDLP** - A Spark implementation of the MDLP discretizer (presented in Spark Summit '17) | 29 ★

MOAReduction - A library for streaming data reduction in MOA | 2 🖈

1<sup>st</sup> and 3<sup>rd</sup> projects are Spark-packages. Check my GitHub profile for more info.

## **Education**

2013 - 2018 Ph. D., Computer Science CUM LAUDE University of Granada, Spain  $\mathbb{Y}$  Best Ph. D. Thesis Project award by Spanish Association of Artificial Intelligence (AEPIA)

2012 - 2013 MSc., Soft Computing and Intelligent Systems (GPA: 8.1/10.0) University of Granada, Spain

2009 - 2012 **BEng., Computer Engineering** (GPA: 8.8/10.0) University of Jaen, Spain

2006 - 2009 BEng., Computer Technical Engineering (GPA: 7.9/10.0) University of Jaen, Spain

Bachelor extraordinary award

## Research

2012 - 2018 Ph. D. Candidate, Graduate Research Assistant University of Granada Thesis: Distributed Data Reduction Algorithms for Big Data

- Proposed several scalable data reduction (discretization, feature and instance selection) techniques for Apache Spark. Aimed at decreasing the complexity of large-scale static and dynamic DBs.
- Tools: Spark, Scala, Java, MOA, Flink, LTEX, Git, Maven, Eclipse.
- Internships: PWr, Wroclaw, Poland & MDH, Västerås, Sweden. 3 months each.
- Summary of publications: https://scholar.google.com/ citations?user=cEkfaW4AAAAJ

## **Experience**

Dec 2013

Mar 2012

Feb 2018

Sep 2014 -**Researcher & Graduate Teaching Assistant** University of Granada Feb 2018

 FPU Spanish Research and Teaching Fellowship @ Department of Computer Science and Artificial Intelligence.

Dec 2016 -**Data Scientist** University of Granada & CETAQUA foundation

May 2017 • Water-consumption forecasting in Spanish eastern cities. Data analysis, visualization and time-series forecasting. Tools: R, ggplot2, forecast, tsExpKit, knitr.

Oct 2013 -**Data Scientist** University of Granada & LaPalma Cooperative

Mar 2015 · Crop forecasting and detection of plagues in greenhouses using weather conditions. Data analysis, visualization and time-series forecasting. Tools: R, ggplot2, forecast, tsExpKit, knitr.

Apr 2013 -**Data Scientist** University of Granada

> • Time-series forecasting of railway deficiencies. Multi-objective optimization for railway infrastructure maintenance. In cooperation with VIAS Inc., ADIF, and others. **Tools**: R, Java, PMML, C++.

Mar 2012 -Full Stack Developer & Data Scientist Univ. of Granada & Indra Systems Apr 2013

 Development of a Eclipse plugin to code/deploy Java apps, and manage non-relational DBs in APlaCA, a cloud platform. Timeseries forecasting of platform load. Tools: Java, Eclipse, R, HTML.

Dec 2011 -**Data Scientist** University of Jaen & OroLiveSur Inc.

> • Extraction and analysis of user-patterns in an e-commerce site. Rule learning from user-patterns. Tools: Java, Weka, KEEL.

Sep 2013 -**Linux Server Administrator** SCI2S research group, UGR

• Tools: CentOS, LDAP, SGE, Spark, Hadoop, Ganglia, KickStart, PXE.