

Sergio Ramírez Gallego

Data Scientist



Born in 1988 in Jaén, Spain



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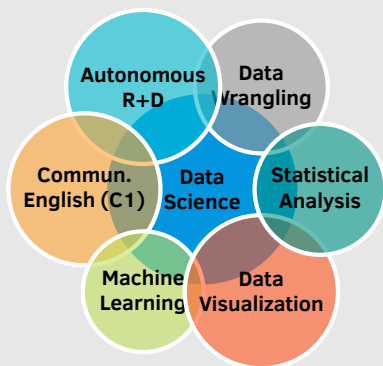
/in/sramirezg



sramirez

Skills

Overview



Programming

0 LOC —————> 5000 LOC

Scala • Spark • R

Java • Git • Flink • \LaTeX

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 ★

Check my GitHub profile, or my Spark packages: <https://spark-packages.org/user/sramirez>.

Education

2013 - 2018 **Ph. D., Computer Science** CUM LAUDE University of Granada, Spain
🏆 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, \LaTeX , Git, Maven, Eclipse.
- Summary of publications: <https://scholar.google.com/citations?user=cEkfaW4AAAAJ>

Experience

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

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

Dec 2016 - May 2017 **Data Scientist** University of Granada & CETAQUA foundation

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

Oct 2013 - Mar 2015 **Data Scientist** University of Granada & LaPalma Cooperative

- 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 - Dec 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 - Apr 2013 **Full Stack Developer & Data Scientist** Univ. of Granada & Indra Systems

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

Dec 2011 - Mar 2012 **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 - Feb 2018 **Linux Server Administrator** SCI2S Group, Dept. of Computer Science and AI, UGR

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