SALVADOR E. RAMIREZ CIARRETA

Physics Graduate

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Experience

Junior Data Scientist
Euler Hermes Rating

📅 January 2020 – April 2020   📍 Hamburg

- Cleaning and processing raw datasets to produce usable data in the context of credit rating.
  - Understanding the structure of the raw dataset to differ useless data usable data.
  - Reacting to changes in the structure of the raw dataset or the rating methodology.
- Selection of appropriate criteria to classify companies for different company products.
  - Elaboration of additional sensitivity analysis to study the goodness of the selected criteria.
- Search of trends and correlations in data that allow the prediction of future credit ratings.
  - Development and testing of hypothesis to predicts future ratings.

Research Assistant at Molecular Biomechanics Group
Heidelberg Institute for Theoretical Studies

📅 March 2017 – March 2019   📍 Heidelberg

- Objectives:
  - Study with simulations the aggregation of Graphene and Carbon Nanotubes, in separated ensembles and in a mixture.
  - Find the configuration that optimizes mechanical properties.
- Skills gained:
  - Multiscale modeling of the system.
  - Long-term planning of the project and management of large amounts of data.
  - Selection of relevant information from raw data.
  - Python experience.

Private Tutor
Mathematics and Physics

📅 2011 – 2016   📍 Madrid, Spain

Voluntary Work

Conservation and Restoration of local Patrimony
Compagnons Bâtisseurs

📅 2014 Summer   📍 Baden, France
- Restoration of an ancient wall in the beach.

Solidarité Jeunesses

📅 2013 Summer   📍 Auvillar, France
- Restoration of a river port at Garonne river.

Solidarité Jeunesses

📅 2011 Summer   📍 Monteils, France
- Restoration of a wall from the XIX century.

Education

MSc. in Physics
Grade 1.3

📅 2016 – 2019   📍 Heidelberg University

MSc. in Theoretical Physics
Grade: 8/10

📅 2015 – 2016   📍 UCM, Spain

BSc. in Physics
Grade: 7.57/10

📅 2011 – 2015   📍 UCM, Spain

Skills

Python	●●●●○○
Machine Learning	●●○○○○
LaTeX	●●●○○○
Matlab	●●○○○○
Linux	●●○○○○
Stata	●●●○○○
SQL	●●○○○○
Mathematica	●●○○○○
R	●○○○○○

Languages

Spanish	●●●●●●
English	●●●●●○
German	●●●●○○
French	●●○○○○

Additional Courses

SQL for Data Science
Coursera

📅 June 2020

Machine Learning
Coursera

📅 August 2020

Publications

- J.A.R. Cembranos, S.E.R. Ciarreta and L.J. Garay (2018). "Scale holography". In: *The European Physical Journal C* 78.9, p. 732.