

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 📍 Montels, 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