Alex Giménez Romero

Physicist

7 May 1997

Spain

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Interests

Currently interested in Statistical Physics, Statistical Mechanics and Physics of Complex Systems as well as computer simulations and data analysis.

Skills

Julia

Office

R

SQL

C++

LaTex

Python

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Languages

German

English

Spanish

Catalan

Education

2015-2019 B.Sc. Physics — Autonomous University of Barcelona
With honors in numerical methods I and II

2019-2020 M.Sc. Physics of Complex Systems — University of the Balearic Islands

Electives and MOOCs

Electives: Theoretical Mechanics, Statistical Physics, Fluids and Superfluids, History of Physics, Physics of Radiations, Nuclear and Particle Physics, Astrophysics, Advanced Mathematical Methods. Final degree project in nanoscale heat transport from Monte Carlo simulations approach

MOOCs:
-Introduction to R on Coursera.
-Introduction to Java and SQL on Udacity.
- SQL for data analysis on Udacity.
-Fundamentals of Data Visualisation in Tableau on Udemy.
-The Data Science Course 2019: Complete Data Science Bootcamp on Udemy

Work Experience and Internships

Mar-July'19 Research Internship — Instituit de Ciència de Materials de Barcelona
Working in the Soft Matter Theory and Simulation group in the field of superparamagnetic colloids. I used VMD, Visual Molecular Dynamics, and created a statistical analysis interface in python for the study of magnetic chain formation. I also actively participated in the development of MagChain software.

Sept-Mar'19 Bellman — Catalonia Hotels & Ressorts
Took care of customer accommodation, gave information about the hotel and the city, kept the lobby clean and ordered...

Since 2014 Private tutor
Teaching maths, physics and chemistry for secondary and high school alumni.

Development and contribution

2019 MagChain Simulation Package — ICMAB
Software Package to simulate and analyse superparamagnetic colloidal systems. Available in GitHub and free for academic purposes:
https://github.com/magchainsimulationpackage

Courses and certifications

2018 Advanced Open Water Diver
2016 Driver's License B1
2015 First Certificate in English (FCE)