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# Arias Jiménez, Carlos

Murcia (Spain)



## Key skills

- Proficiency in: **statistics**(Advanced), **Excel**(Advanced), **C++**(Basic), **Data scraping**(Intermediate), **PowerBI**(Intermediate).
- Operating systems: **Unix/Windows**.
- Languages: Spanish (**native speaker**), English (**Upper intermediate**, **B2**).
- Databases: Basic knowledge of **SQL** **NoSQL**.

## Programming

- Highly advanced: **Fortran**, **Python** (expertise in NumPy, Pandas, Cython, PyTorch, Keras, Scikit-Learn, Asyncio, OpenCV, etc).
- Advanced: **FreeFEM++**, **LaTeX**.
- In progress: **Java**, **PHP**, **BigQuery**, **R**.

## MOOCs

- Data Analyst **Nanodegree**, on Udacity.
- Deep Learning with **PyTorch**, on Freecodecamp.
- Quantum Mechanics and Quantum Computation** on BerkeleyX.
- Foundations of **Data Analysis**, on UTAustinX.
- Data Structures and **Algorithms in Python**, on Freecodecamp.

## Interests

- Artificial intelligence.
- Real Time Computer Vision.
- Business intelligence.
- Rest APIs.

## Education

- 2021-ongoing Master's Degree **in Applied Statistics** at **Universidad de Granada**, Granada
- 2016 – 2021 Bachelor's degree **in Physics** at **Universidad de Murcia**, Murcia  
**Specialization:** Advanced simulations.

## Work Experience

- Feb. 2018 – Jun. 2018 **Mechanics Lab. Intern** at **Facultad de Química**, Murcia
- Developed software for the Arduino platform that allowed the capture of **infrared data** to analyze the movement of chaotic systems.
  - Merged the captured RAW data into dataframes, then via bayesian analysis obtained the real coordinates of the objects.
- Jun. 2015 – Sept. 2017 **DATA WAREHOUSE MANAGER** at **Agrotul Green**, Totana
- Ensured that project **milestones** and **department goals** were met and adhered to approved budgets.
  - Planned needed resources for the operation delimiting peaks of activity via ERP software.
  - Guaranteed date compliances.
  - Developed processes for auditing warehouse **data quality**.
- Jun. 2009 – Jun. 2015 **WAREHOUSE ASSISTANT** at **Agrotul Green**, Totana
- Preparation of orders with AlierSGA.
  - Label batches.
  - Stock reception and control.

## Personal projects

- 2021 – ongoing **Backlog Dash**  
Made in **Python & Streamlit**. Uses **scraped** game data to recommend similar videogames (via **K-nearest algorithm**), sorting the results by score. Available in the following [link](#).
- 2020-ongoing **Self-maintained Covid Dashboard**  
Made in **Python & Streamlit**. **Self-maintained dashboard** that plots the global spread of Covid-19, also letting the user to check the **epidemic situation** per country and their **historic data**. Available on my portfolio in the following [link](#).
- 2019 – 2020 **Mask detector**  
**Deep Learning** model using **Haar** cascade classifiers and **VGG-19** to integrate a model which discerns if people in static images or a video feed are complying with the **safety distance** and wearing a mask, in **real time**. Available on my [portfolio](#).
- 2019 **Vorticity simulation on viscous fluid**  
2D Navier Stokes simulation using the **Finite Element Method** via FreeFEM++. Article PDF can be found on [here](#).
- 2018 **SimuMatter**  
Simulation of Neutrons interacting with **organic matter** in Fortran, saving the particle trayectories obtained and then cleaning & plotting the results on a **python notebook**. (Pending: LaTeX formulas). Partly available on my portfolio in the following [link](#).