Max Serra Lasierra

B.Sc. in Physics | Data Scientist | R&D Engineer

DETAILS

04.10.1996

Sydney, Australia

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LinkedIn Profile

SKILLS

Python
C
Git/Subversion
SQL (Postgres)
InfluxDB
LoRa networks
Bluetooth Low Energy
Embedded HW and SW
TI-RTOS
Odoo framework
Product Design
Team Coordination

LANGUAGES

Catalan - Native
Spanish - Native
English - Proficient (C2)
German - Intermediate

INTERESTS

Data Science / AI
Blockchain / DeFi
Electric mobility
Climbing / Bouldering
Surfing
Woodwork / Gardening

EDUCATION

M.Sc. in Data Science

University of Potsdam, Potsdam
October 2021 - current

MicroMaster in Statistics and Data Science

Massachusetts Institute of Technology, online
April 2019 - September 2020

- Courses: Probability, Statistics, Data Analysis in Social Science and Machine Learning with Python.

- Partially Completed: See course record.

B.Sc. in Physics

University of Barcelona, Barcelona
September 2014 - January 2019

- Pathway: Fundamental Physics

- Thesis: "Interaction of SAW with the nuclear spin"

WORKING EXPERIENCE

Research collaboration / Master project

SFB 1294, University of Potsdam, Potsdam
February 2023 - August 2023

- Analysing and extending existing regime dependent causal discovery algorithms for the non-linear case. Such algorithms are of great importance both in the geosciences and in personalised medicine, where seasons and treatments may change the underlying data generating process.

Working student Data Scientist

FactoryPal GmbH, Berlin
December 2021 - current

- Worked on the continuous development of the data pipelines to improve performance and scalability.

- Supported multiple research tasks on how to improve our model and its performance, specially under model drifting conditions.

Research and Development Engineer

FFT Produktionssysteme GmbH, Bremen
June 2019 - June 2021

- Designed a PCB (Printed Circuit Board) with sensors, display and wireless capability, which is now in the process of getting a CE certification.

- Conceptualized and developed an IoT sensor and gateway for safer sailplane winch launches. During 2020 we deployed the system in two flight clubs and collected data of over 200 launches.

- Coordinated the work of three master students during their internships. Also mentored one masters thesis on the use of RFID for logistics.

- Designed and led the SW architecture of a calibration machine for load cells and force transducers.

- Contributed to the concept and development of a data management and evaluation tool based on the Odoo framework.

Internship

FFT Produktionssysteme GmbH, Bremen
June 2018 - June 2019

- Developed a wireless sensor network for structural monitoring of transportation modules.

- Designed a PCB prototype with sensors, display and wireless capability.

- Wrote and tested C drivers and libraries for the PCB sensors and display.

Research assistant

Optical Trapping Lab, University of Barcelona, Barcelona
August 2016 - February 2017

- Collaborated in the generation of diffraction patterns with acousto-optic modulators to create optical tweezers used for cell manipulation.

SOCIAL WORK / VOLUNTEERING

Participant and Data Ambassador

Data Science for Social Good (DSSG) Berlin
November 2021, March 2023

- Partook in two "Datathons" (Hackathons with data) organised by DSSG Berlin. Worked with other volunteers to help NGOs make better use of their data with ML and AI.

Volunteer

El Xiprer - Caritas
2012 - 2018

- Helped with food collection and entertainment of the community members children on Saturday evenings.

Tutoring and homework support
2010 - 2016

- Supported pupils with homework and studying, mainly with Math, Physics and English. (Sometimes I got paid a small amount and other times I did it for free, depending on the family situation.)

REFERENCES

Dr. Jana de Wiljes

SFB 1294 PI - Research Associate - Head of research and robotics lab
University of Potsdam - Institut für Mathematik
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Edith Chorev Metger (PhD)

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