

Antoni Latorre Cañabate

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Languages: Catalan (*native*), Spanish (*native*), English (*C1*), French (*B2*), German (*A2.2*)

Technologies: Python (NumPy, pandas), FORTRAN, C++, Julia, Excel VBA, SQL, scientific computing and visualization

Work Experience

Working student

Infineon Technologies AG

July 2022 – present

Neubiberg, Germany

- Automation of the data processing workflow in a lab environment.
- Python integration with tools such as Origin, PowerPoint and SQL databases.

Analyst

Bluecap Management Consulting

Dec. 2020 – June 2021

Barcelona, Spain

- European Banking Authority credit risk stress testing for a top 4 Spanish bank.
- Improved existing Excel VBA and SAS procedures to summarize and troubleshoot data from various sources.
- Coordination to prepare reports for client delivery.

Curricular internship

Institute of Cosmos Sciences – University of Barcelona (ICCUB)

Sep. 2019 – Jan. 2020

Barcelona, Spain

- Analyzed data of 100.000+ objects in several astronomical catalogs.
- Developed a Python algorithm to cross-match Gaia satellite observations and catalog references.

Summer Fellow

ICFO – The Institute of Photonic Sciences

June 2019 – Sep. 2019

Castelldefels, Spain

- Computational study of 2D materials using Python in the *Quantum Nano-Optoelectronics* group led by Dr. Frank Koppens.
- *Bachelor thesis*: Classical model of a crystal of interacting electrons.

Education

Master of Science | *Computational Science and Engineering (GPA: 1.8)*

Technical University of Munich

Started Oct. 2021

Munich, Germany

- Simulation of dynamical systems using neural network (PyTorch) approximations of numerical solvers for ODE's.
- Julia-implemented numerical study of the Schrödinger equation using the discontinuous Galerkin method.

Bachelor of Science | *Physics – Major in Fundamental Physics (8.3/10)*

Universitat de Barcelona

Sep. 2016 – Jun. 2020

Barcelona, Spain

- Monte Carlo simulation of the 2D Ising model with FORTRAN. Analysis of critical behavior and finite-size effects.

Other experience

NanoGUNE Winter School

Attended lectures on nanoscience and soft skills workshops.

February 2020

San Sebastián, Spain

Institut of Space Sciences

One-week internship awarded for the Extraordinary Baccalaureate award.

June – July 2017

Cerdanyola del Vallès, Spain

Community of Ariane Cities

One-week, space-related seminars in Lampoldshausen (Germany), Toulouse (France) and Terrassa (Spain).

2014 – 2015

Honors and Awards

ICFO Summer Fellowship

Fundació Catalunya – La Pedrera · Ignacio Cirac Program Chair at ICFO.

June – Sep. 2019

Extraordinary Baccalaureate Award

Awarded to 55 out of more than 32.000 students participating in the University Entrance Exams.

Oct. 2016

University Entrance Exams distinction

Recognition to students with grades above 9.0/10 on the university entrance exams.

July 2016