ÀLEX BATLLE CASELLAS

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EDUCATION

International Baccalaureate + Spanish Baccalaureate

Institut Moisès Broggi (institutbroggi.org)

m Sept 2016 - June 2018

- Graduated with honours.

Bachelor's Degree - Mathematics and Data Science

CFIS - UPC

Sept 2019 - ongoing

● FMF+FIB+FTSFTB

Majoring in Mathematics and Data Science and Engineering in a double degree 5-year study plan within CFIS (cfis.upc.edu), a very selective excellence center within UPC, with an average mark of 7.28/10. Specially interested in Deep & Reinforcement Learning, Algorithmics, Optimization, Algebraic Structures and Real & Functional Analysis.

EXPERIENCE & PROJECTS

HP Internship

Software Engineering Intern on Robotics at HP

Built a graphical program from scratch using C++ and Qt to parse and represent ROS launch files graphically before execution. Hosted on GitHub (private repo). IDAO 2021

International Data Analysis Olympiad

Participated in the fourth edition of IDAO, achieving a good position within the 30 best teams (in public testing) in an image classification and regression task using PyTorch.

GitHub projects

Programming projects hosted on my GitHub page.

Fall 2018 - ongoing

The Earth

NeuralNetwork | iGo

Fantasy_Football | CppLEX |

Math & Algorithmics Activities

Mathematics activities as a high school student.

2014 - 2018

♀ FME. Barcelona

- Estalmat (estalmat.cat): Weekly advanced & extra-curricular mathematics sessions, talks & workshops for high school students.
- Math Summer Camp (mathactivities-bcntech.org).
- Algorithmics & Programming course @FIB (algoprog.jutge.org).
- Al competitions and courses @FME (coliseum.ai)

Mathematics & Science tutor

Tutoring sessions for secondary and university students

Barcelona

Both paid and unpaid classes to several students, achieving good academic results. Some of this work has been done through Professors DAFME, a student-lead organization within the Student Association of the FME.

PROGRAMMING SKILLS

C/C++ **Python** R Java SQL Matlab

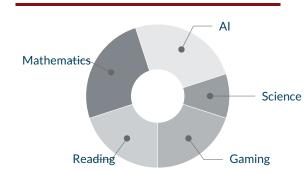
TECHNICAL SKILLS

Latex & Markdown Machine Learning Reinforcement Learning Deep Learning **Multivariate Statistics** Time Series PvTorch Apache Spark (PySpark) OpenMP (C/C++) | Linux environment

LANGUAGES

- Catalan. Native speaker.
- English. Fluent speaking and writing. TOEFL exam.
- Spanish. Native speaker.

INTERESTS



VOLUNTEER WORK

Summer camp surveyor

CE Catecolònies Sant Martí

June 2019 - ongoing ♥ Arenys de Munt, Barcelona

- Summer camp from Aug 1-10 every year.

ACFAEC

Associació Catalana de Famílies i Amics d'Estalmat i les Ciències

- Collaboration within ACFAEC in science and math activities.