

ÀLEX BATLLE CASELLAS

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📍 Arenys de Munt, Barcelona in Atellas23 🌐 Webpage 📧 Atellas23



EDUCATION

International Baccalaureate + Spanish Baccalaureate

Institut Moisès Broggi (institutbroggi.org)

📅 Sept 2016 – June 2018 📍 Barcelona

Graduated with honours (*matricula d'honor*).

Bachelor's Degree – Mathematics and Data Science

CFIS – UPC

📅 Sept 2019 – ongoing 📍 FME+FIB+ETSETB

Majoring in **Mathematics** and **Data Science and Engineering** in a double degree 5-year study plan within **CFIS** (cfs.upc.edu), a very selective excellence center within UPC, with an average mark of **7.39/10**. Specially interested in **Deep & Reinforcement Learning** and **Algorithmics**.

EXPERIENCE & PROJECTS

HP Internship

Software Engineering Intern on Robotics at HP

📅 Summer 2021 📍 Home – remote

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 & 2022

International Data Analysis Olympiad

📅 Mar 2021, Feb 2022 📍 Home – remote

Participated in the fourth and fifth editions of IDAO, achieving a good position within the 30 best teams (in public testing) in an image classification and regression task (2021) and in a GNN regression task (2022) using PyTorch.

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-bcn.tech.org).
- Algorithmics & Programming course @FIB (algoritme.fib.upc.edu).
- AI competitions and courses @FME (coliseum.ai)

Mathematics & Science tutor

Tutoring sessions for secondary and university students

📅 Jan 2018 – ongoing 📍 Barcelona

Both non remunerated and remunerated 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, some other has been done within the CAS projects of the IB Diploma Programme, and some other has been used as a means of saving money.

Other projects

Some of my programming, personal, and Uni projects.

📅 Fall 2018 – ongoing 📍 The Earth

iGo Fantasy_Football CppLEX kt Random Partition Kernels paper

PROGRAMMING SKILLS

Python
C/C++
R
SQL
Java
Matlab



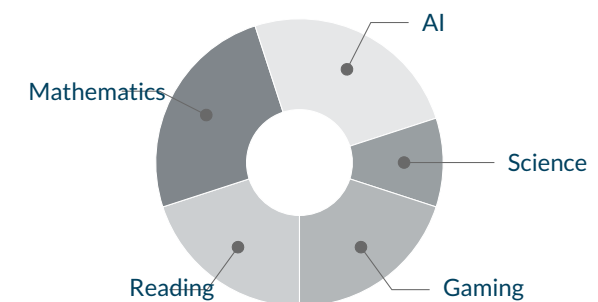
TECHNICAL SKILLS

Latex & Markdown Machine Learning
Reinforcement Learning Deep Learning
Time Series Multivariate Statistics
PyTorch Apache Spark (PySpark) Git
OpenMP (C/C++) TensorFlow
Linux environment

LANGUAGES

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

INTERESTS



VOLUNTEER WORK

Summer camp monitor

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

📅 Aug 2018 – ongoing 📍 Barcelona

- Collaboration within ACFAEC in science and math activities.