ÀLEX BATLLE CASELLAS

🎓 Sept 2001 @ E-mail: alex.batlle01@gmail.com ☎ Phone: +34 620 93 76 28
📍 Arenys de Munt, Barcelona in Atellas23 🔗 Webpage 🔘 Atellas23

EDUCATION

Bachelor's Degree – Mathematics and Data Science

CFIS – UPC

📅 Sept 2018 – ongoing 📍 FME+FIB+ETSETB

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 **7.58/10**. Specially interested in **Deep & Reinforcement Learning** and **Artificial Intelligence**.

International Baccalaureate + Spanish Baccalaureate

Institut Moisès Broggi (institutbroggi.org)

📅 Sept 2016 – June 2018 📍 Barcelona

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

EXPERIENCE & PROJECTS

TU Delft

Research Intern

📅 February 2023 - ongoing 📍 Delft, NL

Research visit to write my Bachelor's degree Final Thesis on autonomous robot exploration via GNNs and RL.

Qualcomm

Engineering Intern

📅 June 2022 - February 2023 📍 Home – remote

Work on several tasks regarding AI and telecommunication networks.

HP

Software Engineering Intern on Robotics

📅 Summer 2021 📍 Home – remote

Parsing ROS `.launch` files using C++ and Qt to represent them graphically similar to `rosgraph`.

IDAO 2021 & 2022

International Data Analysis Olympiad

📅 Mar 2021, Feb 2022 📍 Home – remote

4th and 5th editions of IDAO. Within the 30 best teams (in public test data) 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), *Math Summer Camp* (mathactivities-bcntech.org).

Mathematics & Science tutor

Tutoring sessions for secondary and university students

📅 Jan 2018 — Jan 2022 📍 Barcelona

One-on-one sessions with several students (university, pre-university and high school levels), achieving good results in the areas of mathematics and science.

Other projects

Some of my programming, personal, and Uni projects.

📅 Fall 2018 – ongoing 📍 The Earth

iGo | Fantasy_Football | CppLEX | kt | Random Partition Kernels paper
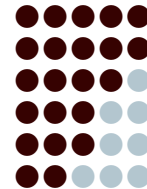
PROGRAMMING SKILLS
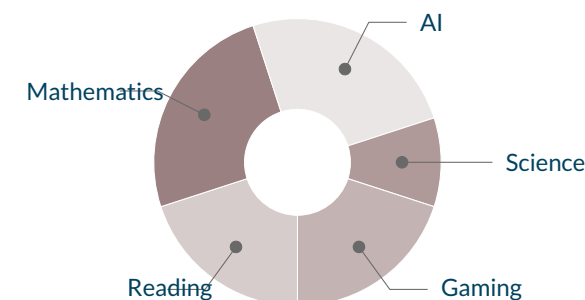
Python
C/C++
Java
R
SQL
Matlab

TECHNICAL SKILLS

Latex & Markdown | Machine Learning
Reinforcement Learning | Deep Learning
ROS | Multivariate Statistics | PyTorch
Git | Linux environment

LANGUAGES

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

INTERESTS

AI · Science · Gaming · Reading · Mathematics

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 – Jun 2021 📍 Barcelona

– Collaboration within ACFAEC in science and math activities.