



# JOAN ALCAIDE NÚÑEZ

## STEM Courses and programs

2023 - 2025

**Fundació Catalunya la Pedrera**

**Youth and Science program**

The Youth and Science program is a 3-year fellowship for students between 10-12th grade with a drive to research, with the aim to develop scientific vocations. The program gives the opportunity to experience research firsthand, both locally and internationally. The main goals are to gain research abilities, share knowledge with other students with the same interests and direct contact with researchers and their research projects.

2023: Two week research program in astrophysics (10 students with 4 researchers)

2023: Writing of a research paper (Recomputing the Hubble constant)

2024: Research internship on the Photometry of Type Ia Supernovae at the Institute of Space Sciences (Autonomous University of Barcelona) under the supervision of Dr. Galbany.

2025: Research internship in a international research center

2022 winter

**CosmoCaixa Science Museum**

**Explainers**

The Explainers program is a three month training for 10-12th grade students. It consists of a series of lectures on scientific communication, in different areas from physics to chemistry and biology, in order to learn as much as possible about each area. Afterwards, eight weekends of practice to communicate and share scientific knowledge with the museum's visitors through explanations, games and other activities. The main goals are sharing knowledge, learning both academically and personally, getting excited about science and acquiring experience, communication skills and creativity.

2021-2023

**Leagues of Code (LoC)**

**Coding courses**

Online courses on C++ and Python. The courses consisted of lectures and practice exercises every week. Furthermore, I have learned to code HTML and CSS for website development.

2022 summer

**Autonomous University of Barcelona**

**Summer courses**

Summer courses for high school students with the aim of getting closer to the university environment.

Mathematics, statistics and data science (1 week): different topics from encryption to graph theory.

Genomics (1 week): genetics, work at the laboratory, sequence and analysis of DNA.

2022 summer

**Polytechnic University of Catalonia**

**Summer courses**

Summer courses for high school students with the aim of getting closer to the university environment.

C++ coding course (1 week): coding and practice, visit to Barcelona Supercomputing Center and MareNostrum supercomputer

German School of Barcelona

Participation in different programs, extracurricular activities, competitions... such as Mathe+, Jugend Musiziert, Jugend Forscht (posters and written work), Känguru der Mathematik, Pangea Wettbewerb, Informatik Biber, etc.

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## EDUCATION

**German School of Barcelona**

**High school**

2017 - now

Current year: 11th grade

Graduation year: 2025

**Escola Canigó**

**School**

2010 - 2017

## LANGUAGES

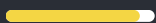
English - B2



Spanish - native



German - B2



Catalan - native



## INTERESTS

science, physics, maths, space,  
photography, playing piano,  
travelling, reading...

## SKILLS

curiosity, teamwork, research  
driven, coding, perseverance...