

ÁLVARO ROMERO CASTILLO

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📍 Dublin, Ireland / Barberà del Vallès, Spain

EDUCATION

Agora Sant Cugat International School

Primary school, Secondary education and International Baccalaureate diploma.

2007–2022

Grade: 39/45

Subjects:

- Physics HL, Mathematics HL, Spanish A HL, English B HL, Chemistry SL, History SL.

Kumon

A mathematics programme encompassing from counting to infinitesimal calculus that I completed with 12 years of age.

2008–2017

International Schools Assembly Youth Leadership Encounter

A conference in which different international schools do a presentation about an emerging topic in education. In our case was how to implement Artificial Intelligence in education.

Castellón de la Plana

2019

Bojos per la física

A physics programme in which they select 25 high school students from all around Catalonia for them to visit investigation centers such as the ICFO, IFAE, ALBA synchrotron, and learn about the current state of research in physics.

2022
Fundació Catalunya La
Pedrera, Barcelona

Trinity College Dublin

Bachelor in Theoretical Physics. Part of the committee of the Theoretical Physics Association (TPSA) and the swimming club (DUSC). Awarded the Arthur Lyster prize by the School of Mathematics for the results obtained in first grade.

2022–present
Dublin, Ireland

WORK EXPERIENCE

Alpha Options

Analyst in the investment department specialised in applying algorithm and machine learning to high frequency trading. Deploying predictive models to extract insights from complex datasets, supporting data-driven decision-making.

May 2024–present
Barcelona, Spain

PROGRAMMING

Languages: Python, Mathematica, Latex, C, Julia, HTML, CSS

Libraries: Numpy, Matplotlib, Pandas, Sympy, Scipy, Scikit-learn, Tensorflow

Frameworks: Virtual Studio Code, MongoDB, Git, Docker, Vim, Linux, Windows

TPSA Ireland Qiskit Fallfest

Coding challenge where we were introduced to the Qiskit programming language developed by IBM and where asked to submit coding challenges using this framework.

2023
Trinity College Dublin,
Ireland

SKILLS

Languages

Spanish: Native | **Catalan:** Native | **English:** Advanced Certificate (C1) | **German:** Basic

NACE Academic Olympics

Event where all the schools from the group NACE compete against each other in academic challenges. I was part of the Agora Sant Cugat team for two years in a row.

2017
St George's School, Leioa, Spain
2018
Rome International School, Rome,
Italy

Model of the United Nations

Conferences where High School students emulate the assemblies of the United Nations and debate on current world issues and try to reach solutions. I attended the Iberian Model of the United Nations in Lisbon, The Hague International Model of the United Nations and the National High School Model of the United Nations in New York.

2019 & 2020
Lisbon, Portugal

2020 & 2021
The Hague, Netherlands

2022
Midtown Hilton,
New York City, USA