

EDUCATION

I am enrolled in the dual degree programme in Mathematics and Physics, which admits 20 students annually and allows them to pursue both bachelor's degrees concurrently.

<div>(Expected) June 2025 Sept. 2020</div>	<div>University of Barcelona</div> <div>Bachelor of Science in Mathematics</div> <div>GPA: 9.0/10</div> <div><ul style="list-style-type: none">Bachelor's thesis (in progress): Yang-Mills Equations and Gauge Theories.Supervisor: Prof. Ignasi Mundet.</div>
<div>(Expected) June 2025 Sept. 2020</div>	<div>University of Barcelona</div> <div>Bachelor of Science in Physics</div> <div>GPA: 8.51/10</div> <div><ul style="list-style-type: none">Bachelor's thesis (in progress): How Classical Shadows Improve Quantum Learning.Supervisors: Prof. Bruno Julià, Dr. Artur Garcia.</div>
<div>June 2020 Sept. 2018</div>	<div>Mireia Centre of Studies</div> <div>Technological Baccalaureate</div> <div>GPA: 10/10</div> <div><ul style="list-style-type: none">1st-ranked student of the class.</div>

EXPERIENCE

<div>Present Sept. 2024</div>	<div>Barcelona Supercomputing Centre – BSC</div> <div>Visiting Student</div> <div><ul style="list-style-type: none">Pursuing my Physics Bachelor's thesis on quantum computing, focusing on classical shadows.Working in the Quantic group.Supervisors: Prof. Bruno Julià, Dr. Artur Garcia.</div>
<div>Present July 2024</div>	<div>Institute for Research in Biomedicine – IRB</div> <div>Research Intern</div> <div><ul style="list-style-type: none">Examined DNA flexibility under damage using a coarse-grained model.Optimised the model to account for DNA sequential damage.Devised and implemented new methods to calculate DNA geometric properties.Supervisor: Prof. Modesto Orozco.</div>
<div>Aug. 2023 June 2023</div>	<div>Centre for Mathematical Research – CRM</div> <div>Research Intern</div> <div><ul style="list-style-type: none">Studied transcendental dynamics within the complex exponential family.Interpreted the results of Robert Devaney and Michal Krych for a specific parameter value, providing a full description of the dynamics in this set.Supervisors: Prof. Núria Fagella, Prof. Xavier Jarque.</div>

HONOURS AND AWARDS

<div>June 2025 Nov. 2024</div>	<div>Collaboration Scholarship</div> <div>2,000 €</div> <div><ul style="list-style-type: none">Issued by the Spanish Ministry of Education, this scholarship is aimed at university students to conduct research in university departments.</div>
<div>June 2025 Oct. 2024</div>	<div>CRM Internship Programme (declined)</div> <div>500 €</div> <div><ul style="list-style-type: none">Awarded to bachelor students who want to do their Bachelor's thesis advised by a researcher affiliated with the CRM.</div>

Sept. 2024 July 2024	Maths4Life Awardee 1,200 € <ul style="list-style-type: none"> Awarded one of the five grants from IRB Barcelona's Maths4Life Programme to conduct research at the intersection of mathematics and biomedicine.
<i>Present</i> Sept. 2021	Excellent Performance 1,500 € <ul style="list-style-type: none"> Recipient of the University of Barcelona's honour for exceptional academic performance throughout my university studies.
Sept. 2021 Sept. 2020	Honours in Baccalaureate 1,700 € <ul style="list-style-type: none"> Awarded to students with an excellent academic record during their baccalaureate. Full coverage of tuition fees for the first year of university.
Oct. 2019 Jan. 2019	Mad for Science Programme <ul style="list-style-type: none"> Catalunya La Pedrera Foundation developed the Mad for Science Programme to open the doors of the leading research institutes to exceptional High School students. I participated in the Physics course.

INVITED TALKS

Sept. 2024	Extraordinary BioMed Seminar – Maths4Life 2024 <ul style="list-style-type: none"> In this seminar organised by IRB, I presented my research work undertaken as a summer intern.
Aug. 2023	Barcelona Introduction to Mathematical Research – BIMR 2024 <ul style="list-style-type: none"> Presented the results of my summer internship at CRM to an expert audience.

LANGUAGES

Spanish Native Speaker
Catalan Native Speaker
English Advanced Level C1

CODING SKILLS

Languages: Python, C, Mathematica, LaTeX, Bash, SageMath.
Libraries: Pandas, SciPy, NumPy, Scikit-learn, Seaborn.
Other: Experience with Unix/Linux and computational modelling.

ADDITIONAL COURSES

- Python for Data Science and Machine Learning** – Udemy [↗](#)
- Machine Learning with Python** – Coursera [↗](#)
- 100 Days of Code: The Complete Python Pro Bootcamp** – Udemy [↗](#)

ADDITIONAL INFORMATION

- I am part of **Science Fellows**, an initiative of the Catalunya la Pedrera Foundation to develop STEM outreach activities such as museum exhibitions and talks in high schools.
- Private tutor** for students in high school and university (Mathematics, Physics, Chemistry, Computer Science, Statistics, Engineering).