## JUAN BRIEVA RAMÍREZ

 $Mathematics \sim Engineering \ Physics$ 

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CFIS - UPC

Parcelona, Spain

EDUCATION —		_
2020 - 2025	CFIS is a unique excellence centre at the Po	
EXPERIENCE —		
09/2024 - 03/2025	Did a research project tutored by Professor Andrew Dancer regarding topics on symplectic geometry, focusing on the singular symplectic reduction of the cotangent bundle of Lie Groups.	
07/2024	Research Project - Summer School  Did a research project on Beltrami Fields tutored by Professor Daniel Peralta-Salas and attended JAE mathematical summer school regarding various topics such as Morse Theory, Hyperbolic Geometry and Elliptic PDEs at ICMAT, Spain leading maths research institute.	
09/2023 - 06/2024	Student mentor Mentor to 9 students of the CFIS programm progress during their first year.	CFIS - UPC ne, giving them support, teaching classes and following their
07/2023 - 08/2023	Did a research project on elliptic curves tutored by UAM professor Daniel Macías Castillo based on Silverman's book <i>The Arithmetic of Elliptic Curves</i> and attended ICMAT's JAE mathematical summer school regarding various topics such as Quantum Game Theory, Infinite Groups, and Banach Lattices.	
09/2022 - 12/2022	<b>Teaching Assistant</b> Teaching assistant in the mathematics first-year Single Variable Calculus course, grading coursework and teaching problem-solving classes.	
07/2022	Research Project - Summer School  Did a research project on flexible polyhedra and the Bellows Conjecture tutored by UB professor Martin Sombra and attended CRM's summer school.	
SCHOLARSHIPS, A	WARDS AND COMPETITIONS ———	
IMO	Honourable Mention 2019	International Mathematical Olympiad
OME	Gold Medal 2019 & Silver Medal 2020	Spanish Mathematical Olympiad
IMC	Bronze medal 2024 & 2023	International Mathematical Competition
SWERC CFIS	Ranked 38/120 2023  Assisted UPC's 10-hour weekly preparation for the contest and placed among top third of contestants.  Full tuition & Accommodation scholarship  UPC  Awarded a full tuition and scholarship for the duration of my bachelor's studies due to academic merits.	
OFE	Silver medal 2020	Spanish Physics Olympiad
Spring Math Contest	Honourable Mention 2021, Silver Medal 2	022 & Honourable Mention 2023 UPC
LANGUAGES —		CODING —
Spanish. Native Catalan. Intermediate	English. Advanced level e level. French. Intermediate level	C++. Advanced level LaTeX. Intermediate level MATLAB. Basic level
OTHER ACTIVITIES	S	
09/2024	Workshop: Fluid Dynamics, Geometry and Computer Science in interaction CRM	
07/2024	Workshop on Hamiltonian Geometry and Quantization Fields Institute	
2016 - 2020	Student representative in the school council	cil during high school
2016 - 2020 2017 - 2019	Student representative in the school council.  Free private classes to students with specific	
	_	al needs during high school