

Abel Doñate Muñoz

Fourth year (Polytechnic University of Catalonia)
Mathematics & Engineering Physics
UPC, Barcelona

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Education

2020-TODAY

Degree on mathematics

Polytechnic University of Barcelona (UPC)
Catalonia, Spain

2020-TODAY

Degree on engineering physics

Polytechnic University of Barcelona (UPC)
Catalonia, Spain

Skills

Programming languages

C++/C#	Intermediate
Python	Intermediate
LaTeX	Advanced
MatLab	Basic

Graphic Design

Inkscape	Intermediate
GIMP	Intermediate
3D-Design	Basic

Languages

Spanish	Native
English	Cambridge First (B2 in EU)

Aptitudes

- Great ability to focus on a project
- Autodidact
- Deep interest in knowledge

Hobbies

- Music (professional studies in conservatory of trumpet and piano)
- Sports (tennis and running)
- Reading philosophy, history and music

Experience

2022, JULY Research stay in CRM

Research on Coxeter Matroids during a stay in CRM (Centre de Recerca Matemàtica) during Barcelona Introduction to Mathematical Research (lecture here)

2022-2023 Fellow intern of the subject of computer science

Work as fellow intern in the subject of computer science in the degree of mathematics

2023 Readings on Connective Constant in regular lattices

Reading of papers and development of techniques guided by a professor of Polytechnic University of Catalonia on the connective constant of regular lattices.

2023, SUMMER Research stay in ICMAT

Research on Bounded cohomology of groups and quasi-morphisms during a stay in ICMAT (Instituto de Ciencias Matemáticas) with a JAE-INTRO scholarship. (lecture here)

Awards and recognitions

2020 Gold medal in Spain's Physics Olympiad

National competition held annually in Spain for students of 17-18 years old.

2020 Silver medal in Ibero-American Physics Olympiad

International competition held annually for Spanish speakers students (Spain and Latin America) of 17-18 years old.

2020 Participation in Spain's Mathematics Olympiad

National competition held annually in Spain for students of 17-18 years old.

Scholarships

2020-TODAY Full Degree Scholarship (Mathematics)

Full scholarship granted by the Interdisciplinary Higher Education Centre at the Polytechnic University of Catalonia for the whole degree.

2020-TODAY Full Degree Scholarship (Engineering Physics)

Full scholarship granted by the Interdisciplinary Higher Education Centre at the Polytechnic University of Catalonia for the whole degree.

2020-TODAY Residence Scholarship

Full residence scholarship granted by the Interdisciplinary Higher Education Centre at the Polytechnic University of Catalonia while studying the degrees.