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## EDUCATION

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### UNIVERSITY OF BARCELONA

2021-Now / Barcelona

B.S IN MATHEMATICS | MINOR IN COMPUTER SCIENCE | 126 ECTS

- Relevant Coursework: Language and mathematical reasoning, Integral Calculus in Several Variables, Probabilities, Numeric Methods, Discrete Mathematics, and Linear Algebra

### UNIVERSITY OF BARCELONA

2019-Now / Barcelona

B.S IN COMPUTER SCIENCE | MINOR IN MATHEMATICS | 198 ECTS

- Relevant Coursework: Software Design, Data Structures, Operating Systems, Artificial Intelligence, Introduction to Data Science, Computer Vision, and Data Bases

### UNIVERSITY OF MURCIA

2016-2019 / Murcia

B.S IN COMPUTER SCIENCE & MATHEMATICS

## ACHIVEMENTS AND HONORS

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### PUBLICATION IN IEI 2021 CONGRESS

November 2021 / Italy

- Ludmila M., Eloi P. and Estíbaliz M. "Developing a Student Dashboard Prototype: What we can do with what we get from Moodle?", Innovation and educational research for teacher training (2021): 99-105

### PROGRAMMING OLYMPIAD FOR UNIVERSITY STUDENTS

2017 / Murcia

POSITION 20TH

### 17TH LLUIS SANTALÓ RESEARCH SUMMER SCHOOL

Summer 2016 / Cantabria

RECEIVED A SCHOLARSHIP TO ATTEND THE COURSE

- Geometric Algebra and Geometric Calculus, with Applications to Mathematics, Physics and Engineering

### FINISHED BACCALAUREATE WITH HONORS

2014-2016 / Murcia

IN SCIENCE RESEARCH

## EXPERIENCE

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### UNDERGRADUATE RESEARCH INTERN

October 2021-Now / Tokyo

UNIVERSITY OF TOKYO | DEVELOPED REMOTE DUE TO COVID

- Using a semi-supervised machine learning algorithm to detect Earth deformation after seismic movements
- Translating the algorithm from MATLAB to Python
- Cleaning and preparing the input data using Numpy and plot it making use of Pyplot from Matplotlib
- As a member of Dr. Aoki's laboratory

### COMPUTER SCIENCE & MATHEMATICS DEPARTMENT ASSISTANT

July 2021-Now / Barcelona

UNIVERSITY OF BARCELONA

- Developing the Learning Analytics dashboard of a teaching innovation project
- Collaborating with the departments of Computer Science & Mathematics, Education, Psychology
- Making the initial design with Figma and implementing it through statistics charts with Plotly in Python
- Cleaning and managing data in Jupyter Notebook through Pandas and Numpy's libraries

### CRM SOLUTION DEV INTERN

October 2021-December 2021 / Barcelona

AVANADE | DEVELOPED REMOTE DUE TO COVID

- Applying several Microsoft technologies such as .NET, Azure DevOps or PowerApps (Canvas and Model-Driven)
- Developing a Canvas App to design visit cards that allows the user to create his/her own cards
- Implementing Model-Driven Apps and plugins for managing products of different clients

## SKILLS

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**PROGRAMMING LANGUAGES** Java | Python | MySQL | Bash | HTML | CSS **Beginner:** JavaScript | TypeScript | R  
**SOFTWARE DEVELOPMENT** Object-oriented programming | GIT | Design Patterns | Agile Methodologies | Unit Test  
**FRONTEND FRAMEWORKS** **Intermediate:** Bootstrap | Dash Plotly **Beginner:** Angular CLI | Vue.js  
**DATA SCIENCE LIBRARIES** **Familiar:** Numpy | Pandas **Intermediate:** Matplotlib **Beginner:** Scikit-learn  
**LANGUAGES** **Native:** Spanish **Familiar:** English (B2) **Intermediate:** French **Beginner:** Japanese (N4)

## INTERESTS

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### GDSC CORE MEMBER OF UNIVERSITY OF BARCELONA

*September 2021-Now / Barcelona*

- Coordinating and creating competitive programming team that represents the University of Barcelona
- Helping to organize workshops and talks about attractive computer science topics

### JAPONIA JAPANESE SCHOOL

*2019-Now / Barcelona*

- Took the preparation course for the official JLPT4 exam (N4)
- Did the 4 courses to reach N4 level ( included grammar, vocabulary, speaking, kanji writing...)
- Passed the 4 courses for initial level N5 ( included hiragana, katakana, grammar, vocabulary...)

### VOLUNTEER IN THE RED CROSS YOUTH

*2015-2019 / Murcia*

- Volunteer work for hospitalized children at the *Hospital de La Arrixaca* (2015-2019) in El Palmar, Murcia.
- Campaign organized in Christmas 2015/2016 to give gifts to the most disadvantaged children
- Prevention of violent behavior course
- Social inclusion course