


# MARTÍ PEDEMONTÉ BERNAT

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## Personal Profile

I consider myself an ambitious and hardworking individual, very curious and always eager to learn. It is the scientist in me that makes me want to find answers to unsolved questions, applying rigorous thinking and learning new abilities in the journey. I am also a firm believer that in order to grow, both professionally and personally, you need to be challenged, and this is why I consistently look for different problems that can enhance my problem-solving skills. One of these challenges was studying abroad at ETH Zürich, which turned out to be an incredible experience, and by stepping out of my comfort zone I matured in all aspects. In my free time I like to go to concerts with my close ones, read a good book, go to the gym, do sports and travel and discover new places, cultures and people.

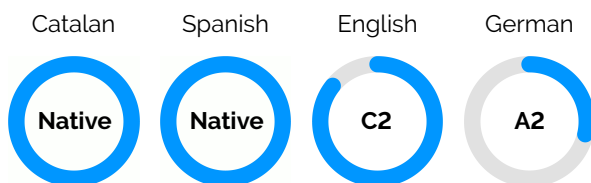
## Experience

- 03/2021 - 01/2022 Undergraduate Research Assistant** - UB Universitat de Barcelona
- Development of a ML software to assist in prescribing treatments for the fertility company Fertypharm.
- 12/2019 - 07/2021 Undergraduate Research Assistant** - UB Universitat de Barcelona
- Assembly of an apparatus to produce and detect polarization-entangled photons.
- 09/2019 - 07/2020 Undergraduate Research Assistant** - UB Universitat de Barcelona
- Study of ITO nanowires grown on a silicon substrate, co-publishing a paper.

## Education

- 05/2023 - 10/2023 Master Thesis in Physics** - Massachusetts Institute of Technology (MIT)
- In Experimental Particle Physics (exotic decays of the Higgs Boson).
- 09/2021 - 10/2023 MSc ETH in Physics** - ETH Zürich **GPA: 5.6/6**
- Focused in Theoretical Physics: GR, QFT and Particle Physics.
- 09/2016 - 07/2021 BSc in Computer Science and Software Engineering** - UB Universitat de Barcelona **GPA: 9.3/10**
- Excellent with honours in 12 courses.
  - Awarded an extraordinary award.
  - Awarded the Joaquim Font Award for the best academic record.
- 09/2014 - 07/2020 BSc in Mathematics** - UB Universitat de Barcelona **GPA: 8.4/10**
- Excellent with honours in 3 courses.
- 09/2014 - 01/2020 BSc in Physics** - UB Universitat de Barcelona **GPA: 8.5/10**
- Excellent with honours in 7 courses.
- 09/2012 - 05/2014 Secondary Education** - IE Costa i Llobera (Barcelona) **GPA: 9.3/10**
- Excellent with honours.
  - Developed a research project named "*Probabilities in gambling*". Grade: 10/10.

## Languages



- 2021-2022 Studied German in the UZH/ETH Zürich Sprachenzentrum.
- 2020 Cambridge's CPE. Grade: 218 (B).
- 2019 TOEFL iBT Test. Grade: 108.
- 2002-2020 Studied English in a Language Center in Barcelona.

## Other Awards

- 2021 La Caixa fellowship to carry out postgraduate studies at ETH Zürich.
- 2011-2014 Kangaroo tests by the Catalan Mathematics Society: 2012: top 1.9%, 2013: top 0.6%, 2014: top 0.7%.

## Technology

**Expert**  
**Advanced**  
**Upper intermediate**  
**Intermediate**  
**Basic**

Python, Latex  
Excel, Java  
HTML+JS+CSS, C++, C  
Dart&Flutter  
R, Bash, C#

## Additional information

- 2015-2019 Speaker in university orientation sessions in High School.
- 2012-2021 Private teacher for students both in High School and University.
- 2018 Yacht captain license.
- 2016 Driving license.