

MARTÍ PEDEMONTTE BERNAT

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Personal Profile

I consider myself an ambitious and hardworking individual, very curious and always eager to learn. The scientist in me makes me want to find answers to unsolved questions, applying rigorous thinking and acquiring new abilities along the way. I firmly believe that in order to grow, both professionally and personally, one must embrace challenges. This is why I consistently seek out different problems that can enhance my problem-solving skills. One of these challenges was studying abroad at ETH Zürich and at MIT, both of which turned out to be incredible experiences, and by stepping out of my comfort zone I matured in all aspects. In my free time I enjoy attending concerts with my close ones, reading a good book, going to the gym, engaging in sports and travel and discover new places, cultures and people.

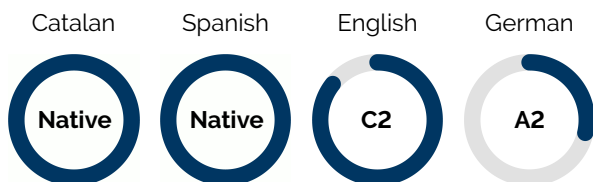
Experience

- 11/2023 - 12/2023** **Research Assistant** - Massachusetts Institute of Technology (MIT)
 - Analysis of rare decays of the Higgs Boson.
- 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 Particle Physics** - Massachusetts Institute of Technology (MIT)
 - In rare decays of the Higgs Boson.
- 09/2021 - 10/2023** **MSc ETH in Physics** - ETH Zürich **GPA: 5.6/6**
 - Focused in Theoretical Physics: QFT, Particle Physics, EFT's and GR.
- 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.

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 skills

- Proficient** Python, C++, Bash, Latex, Excel, Java, C
- Familiar** HTML+JS+CSS, SQL, Dart&Flutter, R

Additional information

- 2015-2019 Speaker in university orientation sessions in High School.
- 2012-2021 Private teacher for students both in High School and University (in Mathematics, Physics, Computer Science, Statistics, Chemistry, Engineering).
- 2018 Yacht captain license.
- 2016 Driving license.

