

### Profile

I am young and skilled researcher in her first postdoctoral position who is pursuing a career in science. My studies in Physics and Mathematics have provided me with an analytical mind, expertise in problem solving and the capability of learning new skills quickly. My research interests are mainly the wide application of effective field theory techniques: from the computation of phenomenological observables within the Standard model, such as calculating decays or spectra of bound states, to more exotic scenarios, such as the study of enhancement effects of dark matter candidates or neutrino mass generation.

### Education

- 2012–2016 **Ph.D in physics**, *U. Autònoma de Barcelona, Excellent Cum Laude.*  
Model building, development of non-relativistic effective field theories and multiloop computations
- 2011–2018 **B.Sc. mathematics**, *U. Autònoma de Barcelona.*  
Specialization in Mathematical Engineering
- 2010–2012 **M.Sc. physics**, *U. Autònoma de Barcelona.*  
High energy physics, Astrophysics and Cosmology
- 2005–2010 **B.Sc. physics**, *U. Autònoma de Madrid.*

### Experience

- 2017–2018 **Postdoctoral associate**, *Technische Universität, Munich, Germany.*
- Publication of 3 scientific papers in high impact international journals
  - Invited speaker in 2 international conferences and 3 programs of weekly seminars
  - Teaching assistant for the Theoretical Physics M.Sc.
  - Referee for high impact scientific journals: JHEP, EPJA, ROPP
- 03-07 2017 **Visiting Scientist**, *CERN, Geneva, Switzerland.*
- Publication of 2 scientific papers in high impact international journals
  - Invited speaker in 2 international conferences
  - Tutor at a Summer School for Ph.D. students
- 10-11 2016 **Visiting Scientist**, *Johannes Gutenberg Universität, Mainz, Germany.*
- 02-06 2016 **Research Assistant**, *Centre de Reserca Matemàtica, Barcelona, Spain.*
- 2012–2016 **Ph.D. Student**, *U. Autònoma de Barcelona, Spain.*  
Position funded by the PIF-UAB fellowship and IFAE. Date of thesis defense: 28/04/2016
- Publication of 7 scientific papers in high impact international journals
  - Invited as speaker in 6 international conferences and 4 seminar programs at various universities
  - Attendance at 3 international Ph.D. school programs
  - Creator and organizer of the biweekly journal club at IFAE
  - 3-month stays at two outstanding foreign research centers (DESY and Cornell University)
  - Organizer and collaborator in several outreach activities both for students and the general public.
- 2011–2015 **Teaching assistant**, *U. Autònoma de Barcelona.*  
Physics and Mathematics courses for different majors and levels

### Publications

[Link to INSPIRE record of publications](#)

### Languages

English (proficient), Spanish (native), French (upper-intermediate), German (intermediate)

### Computer skills

Programming: Java, C, Fortran, Mathematica