




1st May, 2016

WORK EXPERIENCE

- Nov. 2015 – present** **Editorial Vicens Vives**
Technical Editor Update of high school physics textbooks to L.O.M.C.E. education law.
- Oct. 2013 – present** **Associació Quadrivium per la Divulgació (non-profit)**
Founder and Secretary Fostering of scientific knowledge in general audiences.
Mentoring of communication skills among young scientists.
<http://www.quadrivium.cat/> 
- Oct. 2011 – Sept. 2015** **University of Barcelona**
Predoctoral researcher Project on History of the Quantum Theory (early 20th century).
Science outreach conferences and interviews (TV3 and RAC1).
Teaching assistant Introductory and advanced courses in Physics, Mathematics, Engineering and History of Science.
- June 2009 – Sept. 2015** **Encontres amb el Tercer Cicle**
Coordinator and logistics Management of periodic event with the aim to establish a scientific network between predoctoral researchers and undergraduate students.
Leading a 5–10 people team. More than 50 invited speakers. Audience reach of more than 1500 students.
<http://www.ub.edu/fisica/encontres> 
- Sept. 2014 – Dec. 2014** **University of Bordeaux**
Visiting researcher Collaboration in project on philosophy of science: *The concept of time in physical theories*.
- Oct. 2009 – Oct. 2011** **European Organization for Nuclear Research (CERN)**
Predoctoral researcher Project LHCb: Simulation of experimental particle physics. Big data and statistical analysis.
Project CLIC: Assessment of detector design and simulation. Hardware simulation.
- May 2005 – July 2010** **Centre Acadèmic Pié**
Founder and manager Private tuition center for students with learning difficulties.
Levels: elementary school, high school, university.
Coordination of a team of 8–12 teachers. 150–200 students per academical year.
<http://academia.pie.cat> 

EDUCATION BACKGROUND

- Oct. 2009 – Sept. 2015** **University of Barcelona, Dept. of Fundamental Physics**
Ph.D. in History of Quantum Physics. GPA: Excellent
- Sept. 2011 – June 2012** **Autonomous University of Barcelona**
B.Sc. in Applied Statistics. Completed one course with excellent marks. Resigned.
- Oct. 2009 – July 2010** **University of Barcelona**
M.Sc. in Astrophysics, Particle Physics and Cosmology. Specialization in Particle Physics and Gravitation. GPA: 9.1/10 (with Honors)
- Sept. 2004 – June 2009** **University of Barcelona**
B.Sc. in Physics. GPA: 3.21/4 (with Honors)

PROGRAMMING SKILLS

Python

- ◇ Good knowledge of language, framework and libraries.
- ◇ Wide use for simulation of physics and hardware.
- ◇ Data management and statistics at LHCb project at CERN.

Other languages and platforms:

- | | |
|-----------|------------------|
| » SPSS | » Matlab |
| » R | » C++ |
| » Fortran | » SQL |
| » ROOT | » GRID computing |

Operating systems

- ◇ Excellent knowledge of *Linux* and *Windows*.
- ◇ Good knowledge of *Mac*.

Java

- ◇ Good knowledge of language and framework.
- ◇ Use for simulation at CLIC project at CERN.
- ◇ Android applications.

Web design

- ◇ Advanced knowledge of web design languages:
 - » HTML5
 - » JavaScript
 - » CSS3
 - » Ruby (beginner)
- ◇ Static and responsive web pages.
- ◇ See examples in:
 - <http://www.ub.edu/fisica/encontres>
 - <http://www.quadrivium.cat/>

Layout design

- ◇ Adobe InDesign

RELEVANT PUBLICATIONS

- ◇ B. Pié & E. Pérez, The historical role of the Adiabatic Principle in Bohr's quantum theory. (2016)
- ◇ E. Pérez & B. Pié, Bohr and Ehrenfest: transformations and correspondences in the early 20's. (2016)
- ◇ B. Pié, L'experiment d'Stern i Gerlach en el seu context històric (PhD thesis). (2015)
- ◇ B. Pié & E. Pérez, L'àtom d'Schrödinger. (2014)
- ◇ CERN Yellow Report CERN-2012-03
- ◇ More than 100 publications. For a complete list see: https://www.researchgate.net/profile/Blai_Valls

ONLINE COURSES

- Ongoing* Corporate Finance Essentials (**IESE**)
- Dec. 2015* Strategic Business Analytics (**ESSEC & Accenture**)
- April 2014* Programming Applications for Android (**Univ. of Maryland**)
- April 2013* Introduction to Computer Networks (**Univ. of Washington**)
- Nov. 2013* Writing in the Sciences (**Stanford University**)
- June 2012* Cryptography I (**Stanford University**)
- Dec. 2008* Writing techniques (**Univ. of Barcelona, IL3**)

AWARDS AND HONORS

- Feb. 2014* Voted *Best Presentation* in JIPI 2014 conference (Barcelona, Spain)
- Jan. 2010* Awarded the *Extraordinary Bachelor Prize* by the University of Barcelona
- Jul. 2008* CERN Summer Student
- April 2004* *CIRIT Prize to foster science among youth*, Generalitat de Catalunya
- Oct. 2004* Honor Mention in the *XV Spanish National Physics Olympiad (Vigo, Spain)*

LANGUAGES

- Catalan and Spanish**
Native
- English**
TOEFL 112/120
- German**
B1
- French**
A2

OTHER INTERESTS

- ◇ Press
- ◇ Reflex photography
- ◇ Writing (essay & poetry)
- ◇ Water-polo
- ◇ Tango dancing