

WORK EXPERIENCE


- Aug. 2017 – present Banc Sabadell**
Analyst Financial regulation compliance. Analysis and development of financial policies and procedures.
- June 2016 – Nov. 2016 Better Consultants**
IT Consultant HOST analyst and developer at Banc Sabadell.
PMO Design and Deployment Programme Management (Banc Sabadell).
- Nov. 2015 – June 2016 Editorial Vicens Vives**
Technical Editor Update of high school physics textbooks to L.O.M.C.E. education law.
- Oct. 2011 – Sept. 2015 University of Barcelona**
Predoctoral researcher History of the Quantum Theory. Science outreach conferences and interviews (TV3, RAC1).
Teaching assistant Introductory and advanced courses in Physics, Maths, Engineering and History of Science.
- Oct. 2009 – Oct. 2011 European Organization for Nuclear Research (CERN)**
Predoctoral researcher LHCb project: Simulation of experimental particle physics. Big data and statistical analysis.
CLIC project: 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, high school, university. Coordination of a 8–12 teacher team. 150–200 students per academical year.
>> <http://academia.pie.cat> 

EDUCATION BACKGROUND


- Dec. 2016 – present Chartered Financial Analyst, CFA Institute**
Level II Candidate in the CFA Program. Passed the June 2017 Level I exam.
- 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)

VOLUNTEERING

Oct. 2013 – present **Associació Quadrivium per la Divulgació (non-profit)**

Founder and Secretary Science outreach activities. Mentoring of communication skills among young scientists.
>> <http://www.quadrivium.cat/> 







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. 50+ invited speakers. Audience reach of ~1500 students.
>> <http://www.ub.edu/fisica/encontres> 

SOFTWARE SKILLS

- ◇ OS: Advanced user of **Linux** and **Windows**. Good knowledge of **Mac**.
- ◇ Office Suite: Advanced skills in **MS Word**, **MS Excel**, **MS Powerpoint** (and opensource equivalents).
- ◇ **Python**: Excellent knowledge of language and framework. Used for statistics and simulation of physics and hardware.
- ◇ **Java**: Good knowledge of language and framework. Used for simulation of physics and hardware, and Android apps.
- ◇ Statistical softwares & languages: **SAS**, **SQL**, **R**, **SPSS**.
- ◇ Other: **Fortran**, **C++**, **ROOT**, **Matlab**, **IBM Mainframe**.
- ◇ Web design: Advanced knowledge of **HTML5** and **CSS3**; fair knowledge of **JavaScript**.
- ◇ Layout design: Medium-advanced user of **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 
- ◇ For a complete list of contributed publications see: https://www.researchgate.net/profile/Blai_Valls 

ONLINE COURSES

Ongoing Financial Engineering and Risk Management I (**Columbia University**)
Dec. 2017 Bitcoin and Cryptocurrency Technologies (**Princeton University**)
Aug. 2016 Financial Markets (**Yale University**)
April 2016 Corporate Finance Essentials (**IESE**)
Dec. 2015 Strategic Business Analytics (**ESSEC & Accenture**)
April 2014 Programming Applications for Android (**Univ. of Maryland**)
Nov. 2013 Writing in the Sciences (**Stanford University**)
April 2013 Introduction to Computer Networks (**Univ. of Washington**)
June 2012 Cryptography I (**Stanford University**)

LANGUAGES

- ◇ **Catalan** – Native
- ◇ **Spanish** – Native
- ◇ **English** – C2/C1 (TOEFL 112/120)
- ◇ **German** – B1
- ◇ **French** – A2
- ◇ **Norwegian** – A1

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)

OTHER INTERESTS

- ◇ Press
- ◇ Writing
- ◇ Open Water Diver
- ◇ Water-polo
- ◇ Argentinian tango