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# Blai Pié i Valls

#### 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 Quadrívium per la Divulgació (NGO)

Founder and Secretary Fostering of scientific knowledge in general audiences.

Mentoring of communication skills among young scientists.

http://www.quadrivium.cat/ ⁴ੈ

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, Enginnering 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 speakers invited. Audience reach of more than

1500 students.

http://www.ub.edu/fisica/encontres ⁴

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: Assesment of detector design and simulation. Hardware simulation.

May 2009 – 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://www.actiweb.es/centreacademicpie 🌱

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.

#### 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 ⁴

http://www.quadrivium.cat/ ⁴

#### Java

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

#### Other languages and platforms:

» SPSS » Matlab

» R

» C++

» Fortran

» SQL

» ROOT

» GRID computing

#### 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) ⁴
- ♦ 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) ⁴
- ♦ CERN Yellow Report CERN-2012-03 ◆
- ♦ For a complete list of publications see: https://www.researchgate.net/profile/Blai\_Valls

Online Courses		Languages
Ongoing	Corporate Finance Essentials ( <i>IESE</i> )	Catalan and Spanish
Dec. 2015	Strategic Business Analytics (ESSEC & Accenture)	Native
April 2014	Programming Applications for Android ( <i>Univ. of Maryland</i> )	English
April 2013	Introduction to Computer Networks ( <i>Univ. of Washington</i> )	TOEFL 112/120
Nov. 2013	Writing in the Sciences (Stanford University)	German

B1 June 2012 Cryptography I (Stanford University)

Dec. 2008 Writing techniques (Univ. of Barcelona, IL3)

**French** 

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#### 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
Summer 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 Olypmiad (Vigo, Spain)