Blai Pié i Valls

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29th April, 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 Quadrívium 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/ ⁴

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 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: 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://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.
- \Diamond 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 ⁴

http://www.quadrivium.cat/ 4

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 ⁴
- ♦ More than 100 publications. For a complete list see: https://www.researchgate.net/profile/Blai Valls

Online Courses Languages

Ongoing Dec. 2015	Corporate Finance Essentials (<i>IESE</i>) Strategic Business Analytics (<i>ESSEC & Accenture</i>)	Catalan and Spanish 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
June 2012	Cryptography I (Stanford University)	B1
Dec. 2008	Writing techniques (<i>Univ. of Barcelona, IL3</i>)	French A2

Awards and Honors

Feb. 2014	Voted Best Presentation in JIPI 2014 conference (Barcelona, Spain)	♦ Press
Jan. 2010	Awarded the Extraordinary Bachelor Prize by the University of Barcelona	♦ Reflex photography
Jul. 2008	CERN Summer Student	♦ Writing (essay & poetry)
April 2004	CIRIT Prize to foster science among youth, Generalitat de Catalunya	♦ Water-polo
Oct. 2004	Honor Mention in the XV Spanish National Physics Olympiad (Vigo, Spain)	♦ Tango dancing

OTHER INTERESTS