# Blai Pié i Valls

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27th August, 2017

Work Experience

Aug. 2017 - present Banc Sabadell

Analyst Financial regulation compliance. Analysis and review of financial policies and procedures.

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

Founder and Secretary Science outreach activities. Mentoring of communication skills among young scientists.

http://www.quadrivium.cat/ ⁴

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.

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 ⁴

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, high school,

university. Coordination of a 8–12 teacher team.150–200 students per academical year.

http://academia.pie.cat ⁴

**EDUCATION BACKGROUND** 

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)

#### Programming Skills

#### **Python**

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

#### Java

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

### Web design

- ♦ Advanced knowledge of HTML5 and CSS3.
- ♦ Knowledge of JavaScript.
- ♦ See examples in:

http://www.ub.edu/fisica/encontres ⁴

http://www.quadrivium.cat/ ⁴ੈ

## Operating systems

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

#### Office suite

- ♦ Advanced skills in MS Word and MS Excel (and opensource equivalents).
- ♦ Good knowledge of MS Access.

# Other languages and platforms:

» SPSS

» SQL

» R

» GRID computing

» Fortran

» JIRA

» ROOT

» Clarity

» Matlab

» IBM Mainframe

» C++

## 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) ⁴
- ♦ 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	LANGUAGES

Ongoing	Bitcoin and Cryptocurrency Technologies ( <i>PrincetonUniversity</i> )	Catalan and Spanish
Ongoing	Financial Engineering and Risk Management I (Columbia University)	Native
Aug. 2016	Financial Markets (Yale University)	English
April 2016	Corporate Finance Essentials ( <i>IESE</i> )	TOEFL 112/120
Dec. 2015	Strategic Business Analytics (ESSEC & Accenture)	German
April 2014	Programming Applications for Android ( <i>Univ. of Maryland</i> )	B1
Nov. 2013	Writing in the Sciences (Stanford University)	French
April 2013	Introduction to Computer Networks ( <i>Univ. of Washington</i> )	A2
June 2012	Cryptography I (Stanford University)	Norwegian
Dec. 2008	Writing techniques ( <i>Univ. of Barcelona, IL3</i> )	A1

# Awards and Honors Other Interests

Feb. 2014	Voted Best Presentation in JIPI 2014 conference (Barcelona, Spain)	♦ Press
Jan. 2010	Awarded the Extraordinary Bachelor Prize by the University of Barcelona	♦ Writing
Jul. 2008	CERN Summer Student	♦ Open Water Diver
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)	♦ Argentinian tango