Blai Pié i Valls

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Work Experience

Aug. 2017 – present	**Banc Sabadell**
Technical Analyst	Financial regulation complince. 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/ ✆
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 ✆
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 ✆

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)

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` ⊕
  `http://www.quadrivium.cat/` ⊕

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*
» *R*
» *Fortran*
» *ROOT*
» *Matlab*
» *C++*
» *SQL*
» *GRID computing*
» *JIRA*
» *Clarity*
» *IBM Mainframe*

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	Bitcoin and Cryptocurrency Technologies (**PrincetonUniversity**)
Ongoing	Financial Engineering and Risk Management I (**Columbia 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**)
Dec. 2008	Writing techniques (**Univ. of Barcelona, IL3**)

Languages

Catalan and Spanish
Native

English
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