# Europass
# Curriculum Vitae

## Personal information

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| Surname(s) / First name(s) | **Oliveira Jesus, Paulo César** |
| Address(es) | Rua Faustino Ferrador, Nº 5, Hab. 306<br>4710-244 Braga<br>Portugal |
| Mobile | +351 914616496 |
| E-mail | paulo.c.o.jesus@gmail.com<br>pcoj@di.uminho.pt<br>paulo.jesus@oracle.com |
| Nationality | Portuguese |
| Date of birth | 16.06.1977 |
| Gender | Male |

Personal web page: http://gsd.di.uminho.pt/members/pcj

## Work experience

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| Dates | From September 2012 – Onwards |
| Occupation or position held | Software Developer |
| Main activities and responsibilities | Developer of the MySQL Utilities team.<br>Main technologies: Python, MySQL. |
| Name and address of employer | Oracle<br>Lagoas Park, Edificio 8, 2740-244 Porto Salvo, Portugal<br>Website: http://www.oracle.com |
| Type of business or sector | Software Development |
| Dates | From October 2007 to March 2012 |
| Occupation or position held | Researcher (PhD student) |
| Main activities and responsibilities | Perform research in the area of distributed systems, more specifically about distributed aggregation algorithms (considering fault-tolerance and dynamic networks);<br>Holder of a FCT grant (Portuguese foundation for science and technology), website: http://www.fct.pt. |
| Name and address of employer | Departamento de Informática – Universidade do Minho,<br>Campus de Gualtar, 4704-553 Braga, Portugal<br>Website: http://gsd.di.uminho.pt/ |
| Type of business or sector | Research / Computer Science |
| Dates | From September 2006 to August 2007 |
| Occupation or position held | Teacher |
| Main activities and responsibilities | Informatics teaching |
| Name and address of employer | ES/3 Alberto Sampaio, Rua Álvaro Carneiro, 4715-086 Braga, Portugal |
| Type of business or sector | Education/Teaching |
| Dates | From December 2001 to August 2006 |

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| Occupation or position held | Consultant (Software Developer) |
| Main activities and responsibilities | Software development, support and integration.<br>Identify and analyse technical and functional requirements.<br>Run training courses for clients and employees.<br>Help in the elaboration of pricing proposals.<br>Produce documentation following the quality methodologies and practices.<br>Main technologies: Java, Database (Oracle), SQL, PL/SQL, JSP, HTML, JavaScript, Visual Basic, C, ProC. |
| Name and address of employer | WeDo Technologies, Centro Empresarial de Braga, Pavilhão C4, Lugar da Misericórdia - Ferreiros, 4705-319 Braga, Portugal<br>Website: http://www.wedotechnologies.com |
| Type of business or sector | Information systems consulting and software development |
| Dates | From March 2001 to November 2001 |
| Occupation or position held | Trainee (Web/Software Developer) |
| Main activities and responsibilities | Development of web applications:<br>    -   Web support center (WebChat, Instant Messaging and CoBrowsing);<br>Main technologies: Java, Servlets, HTML, JavaScript, Database (Objectivity). |
| Name and address of employer | Infopulse Portugal, Praça Poveiros 56,2º - sala 7, 4000-393 Porto, Portugal |
| Type of business or sector | Web Development |

## Education

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| Dates | From October 2007 to March 2012 |
| Title of qualification awarded | PhD in Computer Science (Approved by unanimity) |
| Principal subjects/occupational skills covered | Theme: "Robust Distributed Data Aggregation"<br>Area: Distributed Systems. |
| Name and type of organisation providing education and training | MAP-i – Doctoral Program in Computer Science<br>University of Minho / University of Aveiro / University of Porto<br>Website: http://map.edu.pt/i |
| Dates | From October 2004 to September 2007 |
| Title of qualification awarded | MSc in Mobile Systems (with the final grade: Very Good) |
| Principal subjects/occupational skills covered | Dissertation: "Aggregation and counting in P2P networks".<br><br>The curricular year corresponds to the post graduation in Mobile Systems (concluded with the final grade of 17).<br>Studied areas:<br>    -   Mobile Systems;<br>    -   Ubiquitous Computing (and Human–Computer Interaction);<br>    -   Mobile Communications;<br>    -   Distributed Systems;<br>    -   Embedded Systems. |
| Name and type of organisation providing education and training | University of Minho, Campus de Gualtar, 4704-553 Braga, Portugal<br>Website: http://www.uminho.pt/ |
| Dates | From September 1996 to December 2001 |
| Title of qualification awarded | Degree (BEng of 5 years) in Engineering of Systems and Informatics (with the final grade of 15) |
| Principal subjects/occupational skills covered | Programming languages: MSP; Modula 2; C; Prolog; Java;<br>Network management and systems administration;<br>Multimedia: OpenGL / C; VRML;<br>Intelligent systems: Development of mammography analyser (Neural networks, Visual Basic);<br>Databases: SQL; Informix; ODBC; ESQL/C; (GTK, Visual Basic 6.0, Visual InterDev);<br>Information Systems Development: UML; Rational Rose;<br>Cryptography: JCA / IAIK; Java;<br>Structured document processing: XML / DTD; XSL; Omnimark; Perl; HTML; LaTeX;<br>Study of real-time application development for the Windows CE platform; |

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| Name and type of organisation providing education and training | University of Minho, Campus de Gualtar, 4704-553 Braga, Portugal<br>Website: http://www.uminho.pt/ |

## Training

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| Dates | 2 – 18 February 2011 |
| Title of qualification awarded | Pedagogical Training of Trainers |
| Principal subjects/occupational skills covered | Certificate of Pedagogical Aptitude (CAP) Nº: EDF566136/2011. |
| Name and type of organisation providing education and training | PowerForm - Formação Profissional, Lda., Praceta Sebastião Alba, loja 23, Lamaçães, 4715 Braga<br>Website: http://www.powerformpt.com |
| Dates | From March 2008 to February 2010 |
| Title of qualification awarded | General English |
| Principal subjects/occupational skills covered | Improved English language skills and competences (oral fluency and writing), having successfully completed the last 8 levels of the English general course. |
| Name and type of organisation providing education and training | Wall Street Institute, Pç. Conde Agrolongo, 162 - 1º, 4700-312 Braga, Portugal<br>Website: http://www.wsi.pt |
| Dates | 13 – 17 July 2009 |
| Title of qualification awarded | Course of Statistical Methods in Scientific Research |
| Principal subjects/occupational skills covered | Study and application of statistical methods in scientific research. |
| Name and type of organisation providing education and training | Departamento de Matemática para Ciência e Tecnologia, Universidade do Minho,<br>Campus de Azurém, 4800-058 Guimarães, Portugal |
| Dates | 31 March 2003 – 4 April 2003 |
| Title of qualification awarded | WeDo University – "How Do WeDo" |
| Principal subjects/occupational skills covered | Methodologies and quality management at WeDo Consulting, according to the standards ISO 9001:2000 and ISO 9000:2000.<br>Elaboration of pricing proposals. |
| Name and type of organisation providing education and training | Nova Fórum – Instituto de formação de executivos<br>Universidade Nova Economia, Lisboa, Portugal |
| Dates | 4 November 2002 – 8 November 2002 |
| Title of qualification awarded | WeDo University – Base program |
| Principal subjects/occupational skills covered | Attitude/Behaviour; Public speaking; Financial topics;<br>Selling Skills: commercial/sales attitude, client service, inside communication, negotiation. |
| Name and type of organisation providing education and training | Nova Fórum – Instituto de formação de executivos<br>Universidade Nova Economia, Lisboa, Portugal |
| Dates | 23 September 2002 – 7 October 2002 |
| Title of qualification awarded | Oracle PL/SQL |
| Principal subjects/occupational skills covered | Use of PL/SQL for developers and DBAs.<br>Create, execute, and maintain procedures, functions, packages, and database triggers.<br>Manage PL/SQL subprograms and triggers.<br>Manipulate large objects (LOBs). |
| Name and type of organisation providing education and training | Oracle Portugal – Sistemas de Informação<br>Lagoas Park Ed 8 Porto Salvo, 2740-244 Porto Salvo, Portugal |
| Dates | 11 July 2002 – 12 July 2002 |
| Title of qualification awarded | Business Objects v.5 – Advanced Designer |
| Principal subjects/occupational skills covered | Use advanced features of the "BusinessObjects Designer" tool to manipulate universes. Take advantage of advanced features to optimize and manage complex universes. |
| Name and type of organisation providing education and training | Eurociber Portugal, Tecnologias de Informação, S.A.<br>Rua Laura Alves, 12 – 3º, 1050-138 Lisboa, Portugal |

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| Dates | 9 July 2002 - 10 July 2002 |
| Title of qualification awarded | Business Objects v.5 – Basic Designer |
| Principal subjects/occupational skills covered | Define and create universes with the "BusinessObjects Designer" tool, efficiently distribute and manipulate the used objects. |
| Name and type of organisation providing education and training | Eurociber Portugal, Tecnologias de Informação, S.A. Rua Laura Alves, 12 – 3º, 1050-138 Lisboa, Portugal |

## Publications/Presentations

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|---|---|
| Reference | Miguel Borges, Paulo Jesus, Carlos Baquero, Paulo Sérgio Almeida. "Spectra: Robust Estimation of Distribution Functions in Networks", 12th IFIP International Conference on Distributed Applications and Interoperable Systems (DAIS), Springer LNCS, volume 7272, pages 96-103, June 2012. http://www.springerlink.com/content/u7686m4114238054/ |
| Reference | Carlos Baquero, Paulo Sérgio Almeida, Raquel Menezes, Paulo Jesus. "Extrema Propagation: Fast Distributed Estimation of Sums and Network Sizes", IEEE Transactions on Parallel and Distributed Systems, volume 23, issue 4, pages 668-675, April 2012. http://dx.doi.org/10.1109/TPDS.2011.209 |
| Reference | Paulo Sérgio Almeida, Carlos Baquero, Martín Farach-Colton, Paulo Jesus, Miguel A Mosteiro. "Fault-Tolerant Aggregation: Flow Update Meets Mass Distribution", 15th International Conference On Principles Of Distributed Systems (OPODIS), Springer LNCS, volume 7109, pages 513-527, December 2011. http://www.springerlink.com/content/26459514043578rj/ |
| Reference | Miguel Borges, Carlos Baquero, Paulo Jesus, Paulo Sérgio Almeida. "Estimativa Contínua e Tolerante a Faltas de Funções Distribuição Cumulativa em Redes de Larga Escala", Simpósio de Informática (INForum), Coimbra, Portugal, September 2011. |
| Reference | Paulo Jesus, Carlos Baquero, Paulo Sérgio Almeida. "Fault-Tolerant Aggregation for Dynamic Networks", 29th IEEE International Symposium on Reliable Distributed Systems (SRDS), New Delhi, India, November 2010. [Speaker at the conference] http://doi.ieeecomputersociety.org/10.1109/SRDS.2010.13 |
| Reference | Paulo Jesus, Carlos Baquero, Paulo Sérgio Almeida. "Dependability in Aggregation by Averaging", Simpósio de Informática (INForum), Lisbon, Portugal, September 2009. http://inforum.org.pt/INForum2009/docs/full/paper_16.pdf |
| Reference | Paulo Jesus, Carlos Baquero, Paulo Sérgio Almeida. "Fault-Tolerant Aggregation by Flow Updating", 9th IFIP International Conference on Distributed Applications and Interoperable Systems (DAIS), Springer LNCS, volume 5523, pages 73-86, June 2009. http://www.springerlink.com/content/87287405534h21q7/ |
| Reference | Invited speaker at the Seminar in Systems and Information Technology (Seminário em Sistemas e Tecnologias de Informação), held at *Escola Superior de Tecnologias e Gestão* of *Instituto Politécnico de Viana do Castelo* (Portugal), presenting the keynote "Robustez dos Algoritmos de Agregação em Redes Dinâmicas" (Robustness of Aggregation Algorithms in Dynamic Networks), in March 2009. |

## Personal skills and competences

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| Mother tongue(s) | **Portuguese and French** |

Other language(s)

| Self-assessment | Understanding | | | | Speaking | | | | Writing | |
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| *European level (*)* | Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| **English** | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user |

*(*) Common European Framework of Reference for Languages*

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| Social skills and competences | Teamwork;<br>Good communication and networking skills;<br>These skills were developed through several professional activities and strengthened by the received training. |
| Organisational skills and competences | Leadership and coordination of small work teams;<br>Conflicts management;<br>Organization, validation and planning of work tasks;<br>These skills were developed throughout the various academic and professional teamwork activities. |
| Technical skills and competences | Perform scientific research (and publish relevant contributions);<br>Requirements analysis, design, implementation and test of software solutions with high complexity;<br>Ability to solve problems in a methodical and innovative way – Ingenious;<br>These competences were acquired from my academic education and professional experience.<br>Follow processes and quality methodologies, according to the requirements of the ISO 9001:2000 and ISO 9000:2000 standards;<br>Run training courses and public speaking;<br>These skills were acquired through training courses and put into practice over my professional and academic activities. |
| Computer skills and competences | Advanced skills in several office suites for different operative systems (Windows, Mac and Linux);<br>Superior skills and competences resulting from the advanced academic education and professional training. |
| Other skills and competences | Practice Tran-Su-Vo-Viet (martial art). |
| Driving licence | Categories A1, B, and B1. |
| **Additional information** | Best Communication Award 2009 by the School of Engineering of the University of Minho;<br>Academic award attributed by the University of Minho, in the year 1997/98; |

Date: July 27, 2013

*Paulo César de Oliveira Jesus*