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NATIONALITY Portuguese

RESEARCH INTERESTS Software engineering, Concurrency, Coordination models, Wireless sensor networks, Product line engineering, Formal methods, Functional programming languages.

EDUCATION

- *PhD* **January 2006 – December 2009**
 - Name of organisation: Leiden University (**LIACS**), Leiden, The Netherlands
 - Core subjects: Coordination, concurrency, component-based systems, formal methods
- *University* **September 2000 – October 2005**
 - Name of organisation: University of Minho (**UM**), Braga, Portugal
 - Title of qualification awarded: Licenciatura (5-year degree) in 2005
 - Principal subjects: Mathematics and Computer Science
 - Level in national classification: 18/20 (best for that year & degree)
- *Secondary School* **September 1997 – June 2000**
 - Name of organisation: Escola Secundária Carlos Amarante, Braga, Portugal
 - Principal subjects: Mathematics, Physics and Chemistry
 - Level in national classification: 19/20

WORK EXPERIENCE

- *Post doctoral Researcher* **Mar 2013 – Jan 2014, Feb 2015 – present**
 - Organisation: **UM**, Braga, Portugal and KU Leuven University (**KUL**), Leuven, Belgium
 - Project leaders: Luís Barbosa (UM) and Dave Clarke (KUL)
 - Topic: Adaptable coordination
 - Main activity: Hybrid modelling of variability for synchronous coordination systems
- *Post doctoral Researcher* **February 2010 – January 2016**
 - Organisation: **KUL**, Leuven, Belgium
 - Lead by Dave Clarke (KUL) and Danny Hughes (KUL)
 - Topic: Highly Adaptable and Trustworthy Software using Formal Models
 - Main activity: Specification and analysis of both variability in a concurrent language and component models for embedded devices.
- *PhD Researcher (grant holder)* **January 2006 – December 2009**
 - Organisation: Centrum Wiskunde & Informatica (**CWI**), Amsterdam, The Netherlands
 - Diploma from: Leiden University (**LIACS**), Leiden, The Netherlands
 - Supervisors: Farhad Arbab (CWI and LIACS), Dave Clarke (KUL), and Erik de Vink (Eindhoven University of Technology – TUE)
 - Topic: Deployment of Distributed Component Based Systems
 - Research interests: Coordination, Distributed systems, Formal methods.
- *Software engineer* **November 2005 – December 2005**
 - Occupation or position held: Software engineer
 - Main activities and responsibilities: Programming, documenting and validating the implementation of certification standards.

- Name and address of employer: MULTICERT – Serviços de Certificação Electrónica SA, Porto
 - Type of business or sector: Company on software certification
- *Researcher (BIC grant holder)* **April 2005 – October 2005**
- Main activities and responsibilities: Study and development of automatic program transformations;
 - Name and address of employer: PURE Project, Dep. Informática, Universidade do Minho;
 - Type of business or sector: Scientific research in Computer Science.
- *Demonstrator* **February 2004 to September 2004**
- Main activities and responsibilities: Teaching, tutorial guidance and project marking in a Computer Science subject;
 - Name and address of employer: Dep. Informática, Universidade do Minho;
 - Type of business or sector: Higher Education.

PRIZES & AWARDS

- Personal scholarships by the Portuguese foundation FCT for PhD (SFRH/BD/22485, 2005) and postdoc (SFRH/BPD/91908, 2012);
- Higher education minister award for the best graduated student in Computer Science, Minister of Science, Technology and Higher Education, 2005;
- MultiCert scholar award, MultiCert, 2005;
- Scholar merit award, University of Minho, 2002, 2003, 2004, 2005;
- “Conselho académico” - Universidade do Minho award, University of Minho, 2001.

MAIN PUBLICATIONS

- [Typed Connector Families](#), José Proença, Dave Clarke, [FACS 2015](#), LNCS 9539.
- [Refraction: Low-Cost Management of Reflective Meta-Data in Pervasive Component-Based Applications](#), Wilfried Daniels, José Proença, Dave Clarke, Wouter Joosen, Danny Hughes, [CBSE 2015](#), ACM SIGSOFT.
- [Interactive interaction constraints](#), José Proença, Dave Clarke, [COORDINATION 2013](#), LNCS 7890.
- [The ABS tool suite: modelling, executing and analysing distributed adaptable object-oriented systems](#), Peter Y. H. Wong, Elvira Albert, Radu Muschevici, José Proença, Jan Schäfer, Rudolf Schlatte, [STTT 14](#), 2012.
- [Dreams: a framework for distributed synchronous coordination](#), José Proença, Dave Clarke, Erik de Vink, [ACM SAC 2012](#).
- [Modular modelling of software product lines with feature nets](#), Radu Muschevici, José Proença, Dave Clarke, [SEFM 2011](#), LNCS 7041.
- [Synchronous Coordination of Distributed Components](#), José Proença, (supervisors: Farhad Arbab, Dave Clarke, Erik de Vink), PhD thesis, Leiden University 2011.

TEACHING

- Assisted the following courses in [KU Leuven](#): Introduction to the object-oriented paradigm (OGO, 11/12), Software design in object-oriented languages (OGO/SWOP, 11/12, 12/13, 13/14), Comparative Programming Languages (CPL, 12/13), Operating Systems (BS, 12/13), Practical project with constrained devices (P&O, 13/14, 14/15).

- Gave the following invited lectures: 2 lectures for the Comparative Programming Languages course (KUL, Leuven, 12/13), an introductory lecture on Functional Programming (Petrozavodsk State University, Russia, Nov'12), the Reo coordination language (UM, Braga, Apr'13).
- Gave the master course *Arquitectura e Cálculo* (Software architecture and design calculi) in U.Minho (15/16).
- Supervised the following master thesis: *Delta Modelling Evaluation using ABS Language* (11/12); *Encoding Scala with Logic* (13/14); *A reactive, extensible & modular Dashboard Factory for WSN monitoring* (14/15).

REFEREEING

Part of the **program committee** of the events: FSEN'13,15,17; FOCLASA'12,13,14(PC-chair), 15(PC-chair); FACS'14; COORDINATION'12,16(PC-chair).

Acted as a **reviewer** for the following journals, conferences, and workshops: FM'16; SBLP'16; ESOP'12,16; COORDINATION'08,09,12,13,15; COMLAN (journal)'15; FAOC (journal)'15; ECOOP'15; FSEN'07,13,15; JLAMP (journal)'14,15; SoSyM (journal)'14; JSC (journal)'14; SCP (journal)'11,13,14; FORTE'13; FOCLASA'06,12,13,14; FACS'08,12,14; iFM'13; FORTE'13; ICFEM'12; Distributed Computing (journal)'11; ICSOFT'11; SAC'11; SCICO'09,10; TOOLS'09;

LANGUAGES

Portuguese: Mother tongue

English: Excellent

Spanish: Good

French: Basic (3 years of courses)

Dutch: Basic (2 years of courses)

Russian: Basic (3 years of courses)

German: Poor (2 semesters of courses)