

Part A. PERSONAL INFORMATION

CV date

27/09/2018

First and Family name	Mónica Pinto Alarcón		
Social Security, Passport, ID number	27389265Z	Age	45
Researcher numbers	Researcher ID	G-1891-2015	
	Orcid code	orcid.org/0000-0002-5376-742X	

A.1. Current position

Name of University/Institution	Universidad de Málaga		
Department	Lenguajes y Ciencias de la Computación / ETSI Informática		
Address and Country	Campus de Teatinos, s/n, 29071, Málaga (ESPAÑA)		
Phone number	952132796	E-mail	pinto@lcc.uma.es
Current position	Profesora Titular de Universidad	From	27/01/2010
Espec. cód. UNESCO	3304, 330499		
Palabras clave	Atributos de Calidad, Líneas de Productos Software, Optimización en Líneas de Productos Software, Eficiencia Energética		

A.2. Education

PhD	University	Year
Doctora por la Universidad de Málaga	Universidad de Málaga	2004
Ingeniera Informática	Universidad de Málaga	1998

A.3. JCR articles, h Index, thesis supervised...

- 2 "sexenios de investigación" (dates: 2008, 2015).
- H-index: 17, Citations: 352 in the last 5 years (total 1129, Google Scholar)
- Q1 Journals: 9 articles in Q1, 6 articles in Q2 (18 JCR journals)
- 16 research projects, 4 of them European projects.
- Member of the leading group of the TASOVA network (<http://tasova.uma.es/>)
- Co-IP National Project HADAS, work-package coordinator in the rest of projects.
- 3 co-supervised thesis (1 presented, 1 registered, 1 ongoing). 1 supervised thesis (ongoing)
- Best PhD thesis award, 2007
- 2 best-paper awards (SPLC'17 Industry Track, ES2DES'17 Conference)

Part B. CV SUMMARY

Member of the GISUM/CAOSD group since January 1999. Since December 2001, GISUM has been consolidated by the Junta de Andalucía (TIC136, Software Engineering). Since 2004, I am part of the CAOSD group, leading by Lidia Fuentes Fernández. I participated in 16 research projects, 4 of the European. My main research lines are Aspect-Oriented Software Development, Dynamic Software Product Lines, Dynamic Applications Adaptation and the Development of Energy-Efficient Applications. I have 16 articles in JCR journals, 9 of them in the last 5 years, as well as in numerous international conferences on Software Engineering, such as SPLC, CBSE, WICSA/ECSA, AOSD, ICSR (indexed as Core A in <http://www.core.edu.au/>). My h-index is 17 and the number of citations is greater than 1000 (Google Scholar source), with more than 300 citations in the last 5 years. I emphasize that I am Co-IP of the HADAS project and have been work-package coordinator within the rest of National and European projects. I also highlight the collaborations with prestigious researchers (Awais Rashid - Lancaster University, Ana Moreira - Universidade Nova of Lisbon, Regine Meunier - Siemens AG, Siobhán Clarke - Trinity College Dublin, etc.) I have 12 articles in collaboration. I have been in the programme and organizer committees of international events, highlighting being Local Organizer Co-Chair of the international conference Modularity 2016 and Publicity Co-Chair in the international conferences AOSD 2011, AOSD 12. I am reviewer of JCR

journals (IEE Proceedings, IEEE Software, JUCS, Future Generation Computer Systems, Transactions on AOSD) and of prestigious conferences (OOPSLA, GPCE, AOSD, JISBD).

Part C. RELEVANT MERITS

C.1. Publications (including books) – 10 MAX

Authors: José M. Horcas, Mónica Pinto, Lidia Fuentes

Title: Context-Aware Energy-Efficient Applications for Cyber-Physical Systems

Journal: Ad Hoc Network ELSEVIER, 15-30, 2019. **Type:** Artículo **Source:** JCR: COMPUTER SCIENCE, INFORMATION SYSTEMS **I. Index:** 3.151, **Quartil:** Q1

Authors: Daniel-Jesús Muñoz, José A. Montenegro, Mónica Pinto, Lidia Fuentes

Title: Energy-Aware Environments for the Development of Green Applications for CPS

Journal: Future Generation Computer Systems, ELSEVIER, 2019. **Type:** Artículo **Source:** JCR: COMPUTER SCIENCE, THEORY & METHODS **I. Index:** 4.639, **Quartil:** Q1

Authors: Daniel-Jesús Muñoz, Mónica Pinto, Lidia Fuentes

Title: Finding correlations of features affecting energy consumption and performance of web servers using the HADAS eco-assistant **Journal:** Computing, 2018 **Type:** Artículo,

Source: JCR:COMPUTER SCIENCE, THEORY AND METHODS **I. Index:** 1.654, **Quartil:**Q2

Authors: José A. Montenegro, Mónica Pinto, Lidia Fuentes

Title: What do software developers need to know to build secure energy-efficient android applications? **Journal:** Journal of IEEE Access 6:1428-1450, 2018. **Type:** Artículo,

Source: JCR: COMPUTER SCIENCE, INFORMATION SYSTEMS **I. Index:** 3.244, **Quartil:**Q1

Authors: José M. Horcas, Mónica Pinto, Lidia Fuentes

Title: Variability models for generating efficient configurations of functional quality attributes

Journal: Information&Software Technology. 95:147-164. ELSEVIER, 2018. **Type:** Artículo,

Source: JCR:COMPUTER SCIENCE, SOFT. ENGINEERING **I. Index:** 2.694, **Quartil:** Q1

Authors: José Miguel Horcas, Mónica Pinto, Lidia Fuentes

Title: An automatic process for weaving functional quality attributes using a software product line approach **Journal:** Journal of Systems and Software. 112:78-95. ELSEVIER, 2016.

Type: Artículo, **Source:** JCR: COMPUTER SCIENCE, SOFTWARE ENGINEERING

Impact Index: 1.424, **Quartil:** Q1

Authors: Gustavo García, Roberto López, Mónica Pinto, Lidia Fuentes, Alexander Egyed

Title: Applying multiobjective evolutionary algorithms to dynamic software product lines for reconfiguring mobile applications **Journal:** Journal of Systems and Software. 103:392-411. ELSEVIER, 2015. **Type:** Artículo, **Source:** JCR: COMPUTER SCIENCE, THEORY & METHODS **Impact Index:** 1.424, **Quartil:** Q1

Source: JCR: COMPUTER SCIENCE, THEORY & METHODS **I. Index:** 2.639, **Quartil:** Q1

Authors: Gustavo García, Mónica Pinto, Lidia Fuentes

Title: Self-adaptation of mobile systems driven by the common variability language

Journal: Future Generation Computer Systems.47:127-144. ELSEVIER, 2015. **Type:** Artículo

Source: JCR: COMPUTER SCIENCE, THEORY & METHODS **I. Index:** 2.639, **Quartil:** Q1

Authors: Mónica Pinto; N. Gámez; L. Fuentes; M. Amor; José M. Horcas, I. Ayala

Title: Dynamic reconfiguration of security policies in wireless sensor networks

Journal: Sensors. 15 (3): 5251-5280. MPDI, 2014. ISSN 1424-8220 **Type:** Artículo,

Source: JCR: – INSTRUMENTS & INSTRUMENTATION **I. Index:** 2.048, **Quartil:** Q1

Authors: Inmaculada Ayala; Mercedes Amor; Mónica Pinto; Lidia Fuentes; Nadia Gámez.

Title: iMuseumA: an agent-based context-aware intelligent museum system.

Journal: Sensors. 14 (11):21213 - 21246. MPDI, 2014. ISSN 1424-8220 **Type:** Artículo,

Source: JCR: INSTRUMENTS & INSTRUMENTATION **I. Index:** 2.048, **Quartil:** Q1

C.2. Research projects and grants

Name: TASOVA: Network on new Trends on Software Architecture and Variability
Project Scope: National **Participation:** participant
IP: Lidia Fuentes (10 research groups) **Program:** MINECO **Code:** TIN2017-90644-REDT
Initial Date: 01/07/2018 **Duration:** 730 days **Total financing:** 10.000,00

Name: HADAS: Herramienta de Análisis y Desarrollo de Aplicaciones sostenibles
Project Scope: National **Participation:** co-IP **IP:** Lidia Fuentes, Mónica Pinto (7 researchers)
Program: MICCINN **Code:** TIN2015-64841-R
Initial Date: 01/01/2016 **Duration:** 1095 days **Total financing:** 90.266,00

Name: INTER-TRUST: Interoperable Trust Assurance Infrastructure
Project Scope: European **Participation:** Researcher **IP:** Lidia Fuentes (7 researchers)
Program: VII PROGRAMA MARCO DE LA UNIÓN EUROPEA **Code:** FP7-317731 **Initial Date:** 01/11/2012 **Duration:** 544 days **Total financing:** 220.838,40

Name: European Network of Excellence on Aspect-Oriented Software Development
Project Scope: European **Participation:** Researcher **IP:** Lidia Fuentes (9 researcher)
Program: IV PROGRAMA MARCO DE LA UNIÓN EUROPEA
Code: IST2-004349 **Initial Date:** 01/09/2004 **Duration:** 1825 days **Total financing:** 220.095

Name: Aspect-Oriented, Model-Driven Product Line Engineering
Project Scope: European **Participation:** Researcher **IP:** Lidia Fuentes (10 researcher)
Program: IV PROGRAMA MARCO DE LA UNIÓN EUROPEA
Code: IST-33710 **Initial Date:** 01/10/2006 **Duration:** 1095 days **Total financing:** 196.760

Name: MAVI. Modelos, Aspectos, y Variabilidad aplicados a la Auto- Adaptación en la Internet de las cosas **Project Scope:** National **Participation:** Researcher
IP: Lidia Fuentes (6 researchers)
Program: Plan Nacional. Proyectos de Investigación, Subprograma de Proyectos de Investigación Fundamental no Orientada. conv. 2012 **Code:** TIN2012-34840
Initial Date: 01/01/2013 **Duration:** 1094 days **Total financing:** 84.480

Name: Automatización del Proceso de Desarrollo de Aplicaciones Orientadas a Aspectos usando un Enfoque Dirigido por Modelos
Project Scope: National **Participation:** Researcher **IP:** Lidia Fuentes
Program: OTROS PROGRAMAS DEL PLAN NACIONAL I+D **Code:** TIN2008-01942
Initial Date: 01/01/2009 **Duration:** 1094 days **Total financing:** 150.040

Name: MAGIC: Líneas de producto software y sistemas Multiagente para la Auto-Gestión de sistemas de la Internet-de-las-Cosas
Project Scope: Autonomic **Participation:** Researcher **IP:** Lidia Fuentes (7 researchers)
Program: Proyectos de Excelencia (Junta de Andalucía) **Code:** TIC-1814
Initial Date: 29/01/2014 **Duration:** 1461 days **Total financing:** 163.686,5

Name: FamWare: Una Familia de Plataformas Dinámicas Orientadas a Aspectos para Inteligencia Ambiental **Project Scope:** Autonomic **Participation:** Researcher
Responsible Researcher(s): Lidia Fuentes (8 researchers)
Program: Proyectos de Excelencia (Juan de Andalucía) **Code:** P09-TIC-5231
Initial Date: 02/02/2010 **Duration:** 1793 days **Total financing:** 240.329

C.4. Patents

Authors: M. Pinto, L. Fuentes, J.M. Troya
Title: AO-ADL Tool Suite: Descripción de Arquitecturas Software Orientadas a Aspectos
Type: Computer application **ID:** 04/2012/5604 **Request number:** MA-160-09

License Date: 20/02/2009

Owner Entity: Registro General de la Propiedad Intelectual (Junta de Andalucía)

Authors: J.M. Horcas, M. Pinto, L. Fuentes

Title: vEXgine: A model transformation tool for CVL; **Type:** Computer application

ID: 04/2018/667; **Request number:** RTA-00658-2017 **License Date:** 13/03/2018

Owner Entity: Registro General de la Propiedad Intelectual (Junta de Andalucía)

C.5. Supervision of Doctoral Thesis

- WeaFQAs: A Software Product Line Approach for Customizing and Weaving Efficient Functional Quality Attributes, José Miguel Horca, co-supervised by Lidia Fuentes and Mónica Pinto, Date of thesis dissertation: Julio 2018
- Optimizing Mobile Applications by Exploiting Variability Models at Runtime, Gustavo García Pascual, co-supervised by Lidia Fuentes and Mónica Pinto, Date of thesis registration: September 2018, Date of thesis dissertation: before end 2018
- Co-supervising PhD student Daniel Jesús Muñoz Guerra (2nd year)
- Supervising PhD student Iván Darío Arroyo Chaves (1st year)

C.6. Research visits to public and private institutions

- **Entity:** SIEMENS, A.G., **Date:** 2007 **Duration:** 15 days **Type:** Pre-doctoral visit.
- **Entity:** COMPUTING DEPARTMENT, LANCASTER UNIVERSITY
Date: 2006 **Duration:** 15 days **Type:** Post-doctoral visit.
- **Entity:** UNIVERSITY OF LINCOLN, NEBRASKA, USA
Date: 2000-2001 **Duration:** 601days **Type:** Pre-doctoral stay (FPUI grant).

C.7. Awards

- **Award:** “Best PhD thesis Award by the University of Málaga”: CAM/DAOP: Modelo y Plataforma Basado en Componentes y Aspectos, 2007.
- **Award:** “Hitachi Young Best Paper Award” at the Data, Demonstrations and Tools track of the 21st International Systems and Software Product Line Conference (SPLC’17)
- **Award:** “Best Student Paper Award” at the International Conference on Energy and Sustainability in small Developing Economies (ES2DE’17)

C.8. National and Internatinal Events Organization

- JISBD 2018. Chair of track Arquitecturas Software y Variabilidad
- Modularity 2016. CORE A, Co-chair of the local organizing committee.
- AOSD 2011 and 2012, CORE A, Publicity co-chair
- ECOOP 2002 (Málaga, CORE A), Member of the local organizing committee
- JISBD 2004 (Málaga), Member of the local organizing committee
- JITEL 2007 (Málaga), Member of the local organizing committee
- Workshop MASS 2016, Málaga, 2016, Organizing co-chair
- Early Aspects Workshop (2008 and 2009, ICSE workshop, CORE a*), Organizing co-chair
- Taller DSOA (2005 and 2006, JISBD workshop), Organizing co-chair