

Part A. PERSONAL INFORMATION

CV date	11/2018
---------	---------

First and Family name	Alejandro Fernández-Montes González		
Social Security, Passport, ID number	48808408Q	Age	37
Researcher numbers	Researcher ID	E-6988-2010	
	Orcid code	0000-0002-2998-4950	

A.1. Current position

Name of University/Institution	Universidad de Sevilla		
Department	Lenguajes y Sistemas Informáticos. E.T.S. Ingeniería Informática		
Address and Country	Avda. Reina Mercedes s/n. Sevilla. Spain		
Phone number	954559769	E-mail	afdez@us.es
Current position	Profesor Titular de Universidad	From	09/11/2018
Espec. cód. UNESCO	120317, 120318, 120311		
Palabras clave	Computación distribuida, Sistemas de Información distribuidos, Ahorro energético		

A.2. Education

PhD	University	Year
Dr. Ingeniero en Informática	Universidad de Sevilla	2013

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

Sexenios	1 (2007 to 2012)	JCR Journals	14
Tesis dirigidas	2 (ongoing)	Q1 JCR Journals	8
Citas WoS/Google (W/GS)	59/153	IP Contratos I+D	5
Citas/año 2013-18 (W/GS)	10,8/23,8	Patentes	2
H-Index (W/GS)	4/9	Software registrado	1

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Professional career of 13 years, 3 of them in the private sector. I am currently *Profesor Contratado Doctor*, (accredited to *Titular de Universidad* since 2015). During the month of October I will compete for a position of *Titular de Universidad*. I develop my research activities in the research team DAUS-Lab.

My first research line was focused on ambient assisted living, and from my PhD. I ranged to energy efficiency and performance of big infrastructures from Grid Computing to Cloud Computing.

I was awarded with the **Premio Extraordinario de Doctorado** of the Universidad de Sevilla.

I have made research stages at INRIA - École Normale Supérieure de Lyon (France), Universidad Politécnica de Barcelona, Universidad Carlos III de Madrid, and postdoctoral stage of three months in the prestigious Shanghai Jiao Tong University (China).

Nowadays I'm focused in two main areas: a) to go on in this research areas through the advising of PhD. Students and b) to explore national and international researchers and forums to find funds for my research lines and the development of the research team.

As a lecturer in subjects related to Informatics in Health Care, I have applied some learned techniques to this field, publishing the results in Public Health journal (indexed in JCR)

I have participated in research projects of the Spanish Ministry in the programs DPI, TIN, TSI and FIT, in regional projects of excellence and actively collaborated in European projects. Moreover I am an active member of the European COST Action IC1406 High-Performance Modelling and Simulation for Big Data Applications (cHiPSet), directly related to the objectives of my research.

Finally, I am always involved in the management at various university levels: i) member of the Government Council of the University of Sevilla, ii) member of the *Claustro* of the University of Sevilla, iii) member of other commissions at university level (doctoral, academic organization, economic management), iv) coordinator of Master program in Digital Health Care among other positions.

Part C. RELEVANT MERITS

C.1. Publications (limited to 10)

1. I. Kilanioti, **Alejandro Fernández-Montes**, D. Fernández-Cerero, C. Mettouris, V. Nejkovic, R. Bashroush, G. A. Papadopoulos
"A survey on cost-effective context-aware distribution of social data streams over energy-efficient data centres"
JCR-Q1 Simulation Modelling Practice & Theory DOI: 10.1016/j.simpat.2018.11.004
2. D. Fernández Cerero, A. Jakóbbik, **Alejandro Fernández-Montes**, J. Kolodziej
"GAME-SCORE: Game-based energy-aware cloud scheduler and simulator for computational clouds"
JCR-Q1 Simulation Modelling Practice & Theory DOI: 10.1016/j.simpat.2018.09.001
3. D. Fernández Cerero, **Alejandro Fernández-Montes**, F. Velasco
"Productive Efficiency of Energy-Aware Data Centers"
JCR-Q2 Energies. DOI: 10.3390/en11082053
4. D. Fernández Cerero, **Alejandro Fernández-Montes**, J.A. Ortega
"Energy Policies for Data-Center Monolithic Schedulers"
JCR-Q1 Expert Systems with Applications. DOI: 10.1016/j.eswa.2018.06.007
5. D. Fernández Cerero, A. Jakóbbik, D. Grzonka, J. Kolodziej, **Alejandro Fernández-Montes**
"Security supportive energy-aware scheduling and energy policies for cloud environments"
JCR-Q2 Journal of Parallel & Distributed Computing. DOI: 10.1016/j.jpdc.2018.04.015
6. D. Fernández Cerero, **Alejandro Fernández-Montes**, A. Jakóbbik, J. Kolodziej, M. Toro
"SCORE: Simulator for cloud optimization of resources and energy consumption"
JCR-Q1 Simulation Modelling Practice & Theory DOI: 10.1016/j.simpat.2018.01.004
7. **Alejandro Fernández-Montes**, D. Fernández, L. González, J.A. Álvarez, J.A. Ortega.
"Energy wasting at Internet Data centers due to Fear".
JCR-Q2. 2015. Pattern Recognition Letters. DOI: 10.1016/j.patrec.2015.06.018.
8. **Alejandro Fernández-Montes**, L. González, J.A. Ortega, L. Lefèvre.
"Smart scheduling for saving energy in grid computing".
JCR-Q1. 2012. Expert Systems with Applications. DOI: 10.1016/j.eswa.2012.02.115.
9. **Alejandro Fernández-Montes**, F. Velasco, J.A. Ortega.
"Evaluating decision-making performance in a grid-computing environment using DEA".
JCR-Q1. 2012. Expert Systems with Applications. DOI: 10.1016/j.eswa.2012.04.028.
10. **Alejandro Fernández-Montes**, L. González, J.A. Ortega, F. Velasco
"A Study on Saving Energy in Artificial Lighting by Making Smart Use of Wireless Sensor Networks and Actuators"
JCR-Q1. 2009. IEEE Network. DOI 10.1109/MNET.2009.5350348

C.2. Research projects and grants

Projects where I was **researcher in charge**:

- Masive.
Project typology: Plan propio Universidad de Sevilla. Ayuda proyectos precompetitivos.
Code: 2018/00000520. One year Project.
Budget: 5000€.
- Efficient eLAsTic SoFTware Infrastructure for City.
Project typology: Plan propio Universidad de Sevilla. Ayuda proyectos precompetitivos.
Code: 2017/1017. One year Project.
Budget: 5000€.
- Grant “José Castillejo de movilidad para Jóvenes Investigadores”. Ministerio de Educación y Ciencia, for a research stage of three months in Shaghai Jiao Tong University (China)

Participation in other projects:

Healthy and Efficient Routes in Massive Open-Data Based Smart Cities-Citizen

In charge: J.A. Ortega / J.A. Álvarez

Project typology: Plan Estatal 2013-2016 Retos, conv. 2013

Code: TIN2013-46801-C4-1-R From-to: 2014-2017

Budget 142.800€.

La Formación a Través de Dispositivos Móviles. Diseño y Evaluación de Contenidos y Actividades Formativas a Través de M-Learning

In charge: C. Marcelo

Project typology: Proyectos de Excelencia de la Junta de Andalucía, conv. 2011

Code: P11-TIC-7124

Start date: 26-03-2013 End date: 25-03-2016

Budget 137.015,03€

Simon, Saving Energy by Intelligent Monitoring

In charge: J.A. Ortega

Project typology: Proyectos de Excelencia de la Junta de Andalucía, conv. 2011

Code: P11-TIC-8052. From-to: 2013-2017

Budget 125.045€

OSAMI-Commons Open Source Infraestructure Ambient Intelligence Commons.

In charge: J.A. Ortega.

Project typology: Proyectos Europeo ITEA2

Code: P024-08/E05. From-to: 2008-2011

Budget: 1.043.857,30 € (proyecto completo) 107.100,00 € (sub-proyecto nacional).

C.3. Contracts

Optimización energética del centro de datos de DELEM.

In charge: **AFM** Code: P043-17/E17

Entity: DELEM OCIO S.L. Tipo de contrato: 68/83.

Start date: 24-10-2017 End date 24-10-2018.

Budget: 2.100€

Involvement: **Researcher in charge**

COSMIC: Desarrollo de la Plataforma Eficiente Cloud de Sokar Mechanics (68/83).

In charge: **AFM**

Entity: Sokar Mechanics, S.L. Tipo de contrato: 68/83.

Start date: 24-12-2017 End date 24-12-2018.

Budget: 4.800€

Involvement: **Researcher in charge**

Metodología, Análisis y Evaluación del Rendimiento y la Eficiencia de Estaciones de Trabajo.

In charge: **AFM** Code: P024-14/E09

Entity: Teknoservice, S.L. Tipo de contrato: 68/83.

Start date: 01-05-2014 End date 30-04-2018.

Budget: 30.000€ Involvement: **Researcher in charge**

Metodología, Análisis y Evaluación del Rendimiento y la Eficiencia Software

In charge: **AFM** Code: P025-14/E09

Entity: Teknoservice, S.L. Tipo de contrato: 68/83.

Start date: 01-05-2014 End date 30-04-2018.

Budget: 20.000€ Involvement: **Researcher in charge**

C.4. Patents

Sci (Simple Cluster Interface): Architecture For Managing User Tasks In A Cluster Via The Web. J. A. Ortega, **AFM**, L. González, F. Velasco, J. Torres, M. J. Escalona, J. A. Alvarez, M. A. Álvarez, D. Fuentes, C. Angulo. Pub. No.: WO/2012/052581 International Application No.: PCT/ES2011/000310 Fecha de publicación: 26.04.2012 International Filing Date: 21.10.2011

Energy-efficient Monitoring and Localisation Device, System and Method. L. M. Soria, J.A. Álvarez, **AFM**, J. A. Ortega, L. González. Pub. No.: WO2012/010727. International Application No.: PCT/ES2011/000237 Fecha de publicación: 26.01.2012 . International Filing Date: 22.07.2011

C.5. Institutional responsibilities

Member of the **Government Council** of the University of Sevilla

Member of the **Claustro** of the University of Sevilla,

Member of other commissions at university level (doctoral, academic organization, economic management)

Coordinator of Official Master degree in Digital Health Care.

C.6. Network membership

Active member of the **European network ICT COST Action** IC1406 High-Performance Modelling and Simulation for Big Data Applications (cHiPSet).

C.7. Research stages

Five stages for a total of 13 months abroad including **Shanghai Jiao Tong University (China)**, **ENS Lyon (France)**, U. Politécnica de Catalunya y U. Carlos III de Madrid, and short stages at U. Politechnika Gdańska and Cracow University of Technology (Poland)