

Part A. PERSONAL INFORMATION		CV date	10-2021
First and Family name	Kawtar Benghazi Akhlaki Sekkate		
Researcher numbers	Researcher ID	D-9967-2012	
	Orcid code	0000-0002-6677-7301	

A.1. Current position

Name of University/Institution	University of Granada		
Department	Computer Languages and Systems		
Address and Country	C/Periodista Daniel Saucedo Aranda, s/n, Spain		
Phone number	E-mail	benghazi@ugr.es	
Current position	Associate Professor (profesora titular)	From	24-11-2017
Espec. cód. UNESCO	120317 Informática, 120311 Softw. de Ordenadores		
Palabras clave	Software Engineering, mobile computing, e-salud		

A.2. Education

PhD, Licensed, Graduate	University	Year
PhD	University of Granada	2009
Computer Science Bachelor	University AbdelMalek Essaidi	2003

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

- Research six-year term (**sexenio**): **3** (last year 2018) (1 technology transfer)
- Supervised PhD thesis: **2** (defended) + 1 (in progress)
- **14** JCR (5 Q1, 5 Q2, 3 Q3, 1 Q4).
- Wos PublicationS: 41
- h-index: 11
- Citation: 616

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

I am currently an associate professor in the department of Computer Languages and Systems of the University of Granada, where I deliver courses on fundamentals of operating systems (bachelor level) and service architectures for business systems (master level).

My pre-doctoral training was developed in the context of a MAEC-AECID grant from the Ministry of Foreign Affairs. During the scholarship period I focused on the formal specification of real-time requirements in software systems. These works resulted in a doctoral thesis describing a methodology for the specification and formal verification of real-time systems using the CSP + T formalism.

Since then, I have continued and extended the scope of my work in the context of complex distributed and collaborative systems, seeking the satisfaction of quality properties such as extensibility, efficiency, adaptability and security. I have also started to give a more applied approach to my research, looking for specific domains to put it into practice, such as AAL, physical and sports sciences, and m-health solutions, such as cognitive telerehabilitation, fibromyalgia and sleep monitoring. In the last years, I 'm leading research on methods and architectural designs for systems in Ubiquitous Computing, wearable computing and IoT domains. In these fields, I have coordinated three projects with the University of Granada and I have supervised two Phds, and at present I'm also supervising another one. I'm also a tutor of phd student in an International co-tutelle between the University of Granada and the University of ULM (Germany). Currently, I'm participating in a Rise project from the EU H2020 research framework "Mental health monitoring through interactive conversations (MENHIR)".

I also maintain international collaborations with professors from other universities in the United States, Europe and Latin America, materialized in several publications and organization of scientific events. Among others, I have collaborated with Lawrence Chung (University of Texas at Dallas, USA), Sergio Ochoa (University of Chile), and Dr. Joseph Barjis (Delft University of Technology, Holland),

I have served as a member of the program committee of several international conferences (UCAMl, ER, EOMAS, SIMULTECH, etc.) and periodically review papers for indexed journals. In addition, I have participated in the organizing committee of 4 national and international conferences and edited a special issue in the Science of Computer Programming journal. I chaired the Intl. Workshop on System/Software Architectures in 2011 IWSSA.

As for entrepreneurship, I am cofounder of two start-ups companies that are active at present:

- 'Everyware Technologies Ltd.'. CIF/VAT Number: B18989723. Starting date: 2012
- 'Aero Information Systems Ltd.'. CIF/VAT Number: B19681295. Starting date: 2018

Part C. RELEVANT MERITS

- ANEP (4 evaluations): concession of a competitive contract Torres Quevedo (2009) and three six-year term (2012, 2018 plus technology transfer one).
- AGAE (2 evaluations): Accreditations for the position of Professor Assistant Doctor (2009), Contracted Doctor (2012)
- ANECA (1 evaluation): Associate professor (2013).

C.1. Publications (including books)

1. Benítez-Guijarro, A., Callejas, Z., Benghazi, K., & Noguera, M. (2019): "Architecting Dietary Intake Monitoring as a Service Combining NLP and IoT". Journal of Ambient Intelligence and Humanized Computing, **JCR: 4.594 (27/156, Q1, categoría: Computer Science, Information Systems)**, doi: 10.1007/s12652-019-01553-2
2. Benítez-Guijarro, A., Ruiz-Zafra, Á., Callejas, Z., Medina-Medina, N., Benghazi, K., & Noguera, M. (2019). "General Architecture for Development of Virtual Coaches for Healthy Habits Monitoring and Encouragement". Sensors, 19(1), 108, ISSN: 1424-8220, JCR: **3.275 (15/64, Q1, categoría: Instruments & Instrumentation)**, doi: 10.3390/s19010108
3. Ruiz-Zafra, Á., Orantes, E., Noguera, M., Benghazi, K., Heredia, J.M.: "A comparative study on the suitability of smartphones and IMU for mobile, unsupervised energy expenditure calculi". Sensors, nº15 vol. (8), 18270-18286 (2015), ISSN: 1424-8220, JCR (2015): **2.245 (9/57, Q1, categoría: Instruments & Instrumentation)**, doi:10.3390/s150818270
4. Rico-Ortega, A., Noguera, M., Garrido, J. L., Benghazi, K., Barjis, J.: "Extending Multi-tenant Architectures. A database model for a Multi-target support in SaaS applications". Enterprise Information Systems, Taylor & Francis (2014). ISSN: 1751-7575, **JCR 2016: 1.9 (1/135, Q2, Categoría: Computer Science, Information systems)** doi:10.1080/17517575.2014.947636
5. Ruiz-López, T., Rodríguez-Domínguez, C., Noguera, M., Rodríguez, M. J., Benghazi, K., & Garrido, J. L. (2013). Applying model-driven engineering to a method for systematic treatment of NFRs in Aml systems. Journal of Ambient Intelligence and Smart Environments, 5(3), 287-310 . **JCR 2013: 1.082 (67/135, Q2, categoría: Computer Science, Information systems)**
6. Chung, L., Garrido, J. L., Subramanian, N., Noguera, M., & Benghazi, K. (2010). Designing high quality system/software architectures. Science of Computer Programming,. 75(8), 669-671. **JCR2010: 1.3 (32/99, Q2: categoría: Computer Science, Software Engineering)**
7. Rodríguez, C., Benghazi, K., Noguera, M., Garrido, J.L., Rodríguez, M., Ruiz, T.: "A Communication Model to Integrate the RPC and the PubSub Paradigms in Ubiquitous Systems". Sensors, Volume 12, Issue 6, MDPI AG, pp. 7648-7668, year 2012, ISSN: 1424-

8220, JCR: 1.953 (9/57, Q1, categoría: Instruments & Instrumentation), doi: <http://dx.doi.org/10.3390/s120607648>

8. Villanueva, E., Rodríguez-Domínguez, C., Benghazi, K., Garrido, J.L. (2012)., Valenzuela, A.: "Applying Information Technology to Forensic Sciences". International Journal of Legal Medicine", 126 (Suppl 1): S1-S4, ISSN: 0937-9827 (Print) 1437-1596 (Online), Springer-Verlag. **JCR:2012: 2.68 (3/16, Q1, Categoría: Medicine Legal).**
9. Benghazi, K., Hurtado, M. V., Hornos, M. J., Rodríguez, M. L., Rodríguez-Domínguez, C., Pelegrina, A. B., & Rodríguez-Fórtiz, M. J. (2012). Enabling correct design and formal analysis of Ambient Assisted Living systems. The Journal of Systems & Software, 3(85), 498-510. JCR 2012: 1.135, (Q2, 41/105, categoría: Computer Science, Information systems)
10. Benghazi, K Tuñón, M. C., Terriza, J. H., & Morales, L. M. (2007). A methodological approach to the formal specification of real-time systems by transformation of UML-RT design models. Science of Computer Programming, 65(1), 41-56. **JCR 2007: 0.832 (40/84, Q2, categoría: Computer Science, Software Engineering)**

C.2. Research projects and grants

1. Project: proyecto nacional I+D+i con código PID2020-118112RB-C21, titulado Gestión de diálogo multitarea para agentes conversacionales guiado por objetivos mediante orquestación de microservicios. Budget:48.000 €. IPs: **Kawtar Benghazi** y Zoraida Callejas.
2. Project: Mental health monitoring through interactive conversations (MENHIR). Entidad financiadora: Comisión Europea, programa H2020. IP: Zoraida Callejas. Participants: Universidad de Granada, Action Mental Health, University of Ulster, Universidad del País Vasco, Intelligent Voice Limited, University of Ulm, Università degli Studi della Campania Luigi Vanvitelli, Globit – Globale Informationstechnik GMBH. bufget: 749.800 €. Duración: 01/02/2019 al 31/01/2023 (4 años).
3. Project: Bon-App-petit: Creación de ecosistemas basados en tecnologías móviles y lúdicas para el fomento de hábitos alimentarios y actividad física saludables entre el alumnado andaluz de educación
4. primaria (P18-RT-4550). Proyectos de Excelencia (Junta de Andalucía) Presupuesto: 116.042,00. PI's: Zoraida Callejas and María Dolores Ruiz-López
5. Project: P10-TIC-6600, Plataforma Virtual de Evaluación e Intervención Cognitiva en Mayores. Proyectos de Excelencia de la Consejería de Innovación, Ciencia y Empresa de la Junta de Andalucía. Coordinator: María José Rodríguez Fórtiz. Budget: 195.347 euros. Dates: 01/12/2010-30/11/2014
6. Project: CEI-BioTic I+D+i Granada 20F12/36, Infraestructura Tecnológica para Monitorización Remota e Integral de Pacientes. IP: Manuel Noguera García, José Luis Garrido Bullejos e Inmaculada García Montes. Budget: 20.000 euros. Fechas: 10/04/2012-31/12/2012
7. Project: TIN2012-38600, Técnicas y Métodos Avanzados para la Adaptación de Software Sensible al Contexto (TEMADAPT). Ministerio de Educación y Ciencia. Coordinator: José Luis Garrido Bullejos. Proyecto nacional evaluado por la ANEP. Budget: 125.598 euros. Dates: 01/01/2013-31/12/2014
8. COST Action AAPELE (Algorithms, Architectures and Platforms for Enhanced Living Environments) - Action IC1303 of the Cost Programme (European Cooperation in Science and Technology). European Science Foundation. Budget: 400.000 euros. Duration, from: 13/11/2013 to: 12/11/2017.
9. Project: PYR-2014-5, Mobile solutions architectures for wellness telemonitoring through the cloud. Campus de Excelencia Internacional CEI BioTIC GENIL (CEB09-0010) del Programa CEI del MICINN, categoría "GENIL START-UP PROJECTS FOR YOUNG RESEARCHERS". Coordinator: **Kawtar Benghazi**. Budget: 3.000 euros. Dates: 20/03/2014-31/01/2015
10. CEI-BioTIC I+D+i Granada V4-2015, Plataforma Móvil para el Autorregistro electrónico de Síntomas Clínicos Presentes en la Fibromialgia. **Coordinator: Kawtar Benghazi** y Germán Prados. Budget: 2.000 euros. Fechas: 28/05/2015-31/12/2015

11. Proyecto: CEI-BioTIC I+D+i Granada V14-2015, Informatización de Máquina Patentada para la Medición de Propiedades Viscoelásticas del Tríceps Sural. Investigadores Principales: Manuel Noguera García y Federico París García. Presupuesto: 2.000 euros. Fechas: 28/05/2015-31/12/2015

C.3. Contracts, technological or transfer merits

1. Contract: Consultoría y diseño de arquitecturas de servicios avanzados para sistemas de información de gestión de aerolíneas comerciales , Art. 83 LOU Global Aeronautics Solutions S.L. 01/12/19 -31/05/20. 1. Budget: 9196 eur. **Principal Investigator: Kawtar Benghazi.**
2. Contract: Educación emocional y estimulación pre y postnatal: Eficacia de una App para el control de los efectos del stress parental sobre el desarrollo del bebé, Coordinador: Bellido-González, Mercedes, Budget: 7000 euros. 06/05/2016-31/12/2016
3. Contract: C-3473-00, Desarrollo de Software para la Estimulación Cognitiva. Consortium Fernando de los Ríos, Junta de Andalucía. Coordinador: María José Rodríguez Fórtiz. Budget: 90.000 euros. Dates: 01/07/2010-30/04/2011
4. MULVIC: Sistema de ayuda a la identificación en accidentes con múltiples víctimas. Junta de Andalucía, FEDER funds. Responsibles: Valenzuela-Garach, Aurora; Garrido-Bullejos, José Luis (University of Granada). 2010-2011. 24000 EUR.
5. Desarrollo de software para la estimulación cognitiva. Junta de Andalucía. Rodríguez-Fórtiz, María José (University of Granada). 2010-2011. 90000 EUR.
6. Sc@ut: Sistema de comunicación aumentativo y adaptativo. Junta de Andalucía. Rodríguez-Fórtiz, María José (University of Granada). 2006-2007. 54800 EUR.
7. SIMFO: Sistema de Información Multimedia Forense. Telvent Interactiva S.A. y University of Granada. 2010-2011. Coordinador: Aurora Valenzuela Garach.
8. OFIDOMO: Desarrollo de un Sistema Dinámico Colaborativo para el Control Inteligente de Oficinas. Program of helps to the Transfer of Research of the University of Granada. Coordinador: Juan Antonio Holgado Terriza. Dates: 14/03/2008 - 13/03/2009
9. Founder of the start-up company 'Everyware Technologies Ltd.'

C.4. Patents

- Carlos Rodríguez-Domínguez, José Luis Garrido, Manuel Noguera, Kawtar Benghazi, María José Rodríguez-Fórtiz. Coordination Method and Software System Based on Multiparadigm Architectures. Publication date: 2012/12/14. Patent office: WO. Patent number: 2012168524

C.5. Awards and merits

- Best senior degree project, year 2011-12: "Smart Transport Guide" (best entrepreneur expectative)
- Best paper award at IV Enterprise Organization, Modeling and Simulation (EOMAS 2010)
- Best Student Paper en el congreso Computer-supported Cooperative Work in Design (CSCWD 2015)
- "Scientific Quality award" in the conference 11th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 2013)