

Date of the CVA	02/07/2021
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Section A. PERSONAL DATA

Name and Surname	Lola Burgueño Caballero		
Researcher's identification number	Researcher ID	L-3817-2014	
	Scopus Author ID	55323008900	
	ORCID	0000-0002-7779-8810	

* Obligatorio

A.1. Current professional situation

Institution	Universitat Oberta de Catalunya		
Dpt. / Centre	Internet Interdisciplinary Institute & Faculty of Comp. Sci., Multim. & Telecom.		
Address			
	Email	lbuguenoc@uoc.edu	
Professional category	Doctor		
Keywords			

A.2. Academic education (Degrees, institutions, dates)

Bachelor/Master/PhD	University	Year
Software Engineering and Artificial Intelligence	Universidad de Málaga	2016
Master's degree in Software Engineering and Artificial Intelligence	Universidad de Málaga	2012
Bachelor's degree in Computer Science and Engineering	Universidad de Málaga	2011
Bachelor's degree in Technical Engineering in Computer Science (Ingeniería Técnica en Informática de Gestión)	Universidad de Málaga	2010

A.3. General quality indicators of scientific production

Citations according to Scopus: 342

h-index according to Scopus: 10

Citations according to Google Scholar: 598

h-index according to Google Scholar: 15

12 papers indexed in journals of the first and second quartiles (Q1 and Q2) of the JCR

8 conference papers published in top conferences (according to the GGS classification proposed by the SCIE: <http://gii-grin-scie-rating.scie.es/>)

Section B. SUMMARY OF THE CURRICULUM

Lola Burgueño is a postdoctoral researcher and lecturer at the Open University of Catalonia (UOC). She is a Juan de la Cierva Incorporación fellow.

She obtained her PhD with honors in Computer Science from the University of Málaga in 2016. Her thesis, supervised by Prof. Vallecillo (University of Málaga) and Prof. Wimmer

(Technological University of Vienna) focused on the field of Model-driven Engineering. Apart from her regular visits to Vienna, she has spent 7 months in the United States as part of two research stays: 4 months at the University of Alabama under the supervision of Prof. Jeff Gray

in 2014, and 3 months at Vanderbilt University with Prof. Gabor Karsai in 2016 as a postdoctoral researcher. In October 2018, she started a two-year postdoctoral contract at UOC (Barcelona) and CEA LIST (Paris) fully funded by CEA LIST in the context of the project Modelia (<http://modelia.eu/>). Since June 2020, she is a Juan de la Cierva Incorporación fellow working at UOC.

Some indicators of her research activity are:

- * 15 journal papers, 12 of them indexed in the first or second quartiles (Q1, Q2) of the JCR.
- * 8 conference papers published in top conferences according to the SCIE conference rating (<http://gii-grin-scie-rating.scie.es/>): 5 in MODELS, 1 in RE, 1 in ICSSOC and 1 in CAiSE
- * 44 papers in peer-reviewed conferences, 36 international and 8 national (Spanish)
- * 1 book chapter
- * Member of the Editorial Board of the SoSyM journal (JCR, Q2)
- * Member of the evaluation panel of the Spanish State Research Agency
- * Best paper award at MODELS'15 and MODELS'18 (the most important conference in the field of model-driven software engineering)
- * Accessit to the National Best PhD Thesis, awarded by the Spanish Society of Software Engineering (SISTEDES).
- * Bronze medal at the ACM Student Research Competition at MODELS'15
- * Recipient of two competitive pre-doctoral grants (FPI and FPU) during her PhD studies.
- * Recipient of the competitive Spanish post-doctoral fellowship JdC-I.
- * Active participation in 4 national R&D projects, 1 EU COST Action and 2 Research Networks
- * Organization of 16 international scientific events
- * Development of three tools as research prototypes that are currently used by third-parties: TractsTool, LinTra, and an extension of the USE tool.

She has participated in several national and international projects. She has been part of Program Committees and has served as co-chair and organizer in prestigious international conferences such as MODELS, SLE, STAF, ICMT, ECMFA, ICSE AE and ICSSOC. She regularly reviews papers for indexed journals such as TSE, JSS, Empirical Soft. Engineering, IEEE Access, SoSyM, Computer Standards & Interfaces and IET Software, JOT, Int. J. of Parallel Programming, Computer Sci. Education.

She has taught courses in official bachelor's and master's degrees at the University of Málaga, Marbella International University Centre (an English-speaking private university) and the Open University of Catalonia, as well as courses based on agreements with private companies such as Accenture. She has also co-supervised 9 final-year projects and is supervising a PhD student.

She has been granted the following habilitations by ANECA: PhD assistant lecturer (profesor ayudante doctor), PhD lecturer (profesor contratado doctor), PhD lecturer in private university (profesor de universidad privada).

Section C. MOST RELEVANT MERITS (ordered by typology)

C.1. Publications

- 1 Scientific paper.** Burgueño; Cabot; Li; Gérard. 2021. A Generic LSTM Neural Network Architecture to Infer Heterogeneous Model Transformations Journal of Software and Systems Modeling (SoSyM). Springer.
- 2 Scientific paper.** Sánchez-Cuadrado; Burgueño; Wimmer; Vallecillo. 2021. Efficient execution of ATL model transformations using static analysis and parallelism IEEE Transactions on Software Engineering.
- 3 Scientific paper.** Muñoz; Burgueño; Ortiz; Vallecillo. 2020. Extending OCL with Subjective Logic Journal of Object Technology. AITO (Association Internationale pour les Technologies Objets). 3, pp.1-15.

- 4 **Scientific paper.** Gunter Mussbacher; Benoit Combemale; Jörg Kienzle; et al; Martin Weysow. 2020. Opportunities for Intelligent Modeling Assistance *Journal of Software & System Modeling*. Springer. 19-5, pp.1045-1053.
- 5 **Scientific paper.** Burgueño; Cabot; Gérard. 2019. The Future of Model Transformation Languages: An Open Community Discussion *Journal of Object Technology*. AITO (Association Internationale pour les Technologies Objets).
- 6 **Scientific paper.** Burgueno; Cicozzi; Famelis; et al; MW. 2019. Contents for a Model-Based Software Engineering Body of Knowledge *Software & System Modeling*. Springer.
- 7 **Scientific paper.** MB; Burgueno; NM; Vallecillo. 2019. Incorporating measurement uncertainty into OCL/UML primitive datatypes *Software & System Modeling*. Springer.
- 8 **Scientific paper.** Moreno; Bertoa; Burgueño; Vallecillo. 2019. Managing Measurement and Occurrence Uncertainty in Complex Event Processing Systems *IEEE Access*. 7, pp.88026-88048.
- 9 **Scientific paper.** Burgueño; Mayerhofer; Wimmer; Vallecillo. 2019. Specifying quantities in software models *Information and Software Technology*. *Information and Software Technology*. 113, pp.82-97.
- 10 **Scientific paper.** Ameller; Franch; Gomez; et al; Berardinelli. 2019. Dealing with Non-Functional Requirements in Model-Driven Development: A Survey *IEEE Transactions on Software Engineering*.
- 11 **Scientific paper.** Hilken; Gogolla; Burgueno; Vallecillo. 2018. Testing Models and Model Transformations using Classifying Terms *Software & System Modeling*. 17-3, pp.885-912.
- 12 **Scientific paper.** Burgueño; Boubeta; Vallecillo. 2018. Formalizing Complex Event Processing Systems in Maude *IEEE Access*. 6, pp.23222-23241.
- 13 **Scientific paper.** Burgueño; Vallecillo; Gogolla. 2018. Teaching UML and OCL Models and their Validation to Software Engineering Students: An Experience Report *Computer Science Education*.
- 14 **Scientific paper.** Burgueño; Wimmer; Vallecillo. 2016. A Linda-based Platform for the Parallel Execution of Out-place Model Transformations *Information and Software Technology*. *Information and Software Technology*. 79, pp.17-35.
- 15 **Scientific paper.** Burgueño; Troya; Wimmer; Vallecillo. 2014. Static Fault Localization in Model Transformations *IEEE Transactions on Software Engineering*.
- 16 **Book chapter.** Vallecillo; Gogolla; Burgueno; Wimmer; Hamman. 2012. Formal Specification and Testing of Model Transformations *Formal Methods for Model-Driven Engineering*. 7320, pp.399-437.

C.2. Participation in R&D and Innovation projects

- 1 Open data para todos: Una infraestructura basada en APIs para la explotación de fuentes de datos online MINISTERIO DE ECONOMÍA, INDUSTRIA Y COMPETITIVIDAD (TIN2016-75944-R). Jordi Cabot Sagrera. (Universitat Oberta de Catalunya). 01/04/2017-30/06/2021. 117.906 €. Team member.
- 2 Red Temática en Ingeniería del Software Dirigida por Modelos MINISTERIO DE EDUCACION Y CIENCIA. Robert Clarisó Viladrosa. 01/07/2017-30/06/2019. 15.000 €.
- 3 COST Action IC1404: Multi-Paradigm Modelling for Cyber-Physical Systems (MPM4CPS) EU COST Action number IC1404. (Participants in: <https://www.cost.eu/actions/IC1404/#tabs|Name:parties>). 25/11/2014-24/11/2018. 76.000.000 €.
- 4 POLYCIMS: Un marco dirigido por modelos para el diseño e integración de Sistemas de Gestión de Infraestructuras Críticas MICINN (TIN2014-52034-R). Antonio Vallecillo Moreno. (Universidad de Málaga). 26/05/2015-26/05/2018. 179.300 €. Team member.
- 5 WIMACS: Sistemas Inalámbricos de Gestión de Información Crítica MICINN (TIN2011-23795). Manuel Díaz Rodríguez. (Universidad de Málaga). 01/01/2012-31/12/2014. 129.228 €.
- 6 Red Científico-Tecnológica en Ciencias de los Servicios CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA; Ministerio de Economía y Competitividad (TIN2011-15497-E). Rubén Fuentes Fernández. 01/09/2012-24/06/2014. 18.000 €.

- 7 MDD-MERTS : Diseño y Monitorización Dirigido por Modelos de Sistemas Empotrados y de Tiempo Real CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA; MICINN (TIN2008-03107). Antonio Vallecillo Moreno. (Universidad de Málaga). 01/01/2009-30/06/2012. 268.620 €.

C.3. Participation in R&D and Innovation contracts

- 1 Model-IA. The beginnings of cognified MDE Platform CEA LIST (Ref. S32228). 01/10/2018-01/07/2020. 100.000 €.
- 2 POLYCIMS. Un Marco dirigido por modelos para el diseño e integración de sistemas de gestión de infraestructuras críticas Ministerio de Ciencia e Innovación. Antonio Vallecillo. From 01/01/2017.
- 3 Sistemas inalámbricos de gestión de información crítica Ministerio de Ciencia e Innovación. Manuel Díaz. From 02/01/2013.
- 4 MDD-MERT: Diseño y Monitorización Dirigido por Modelos de Sistemas Ministerio de Ciencia e Innovación. Antonio Vallecillo. From 16/11/2011.