CURRICULUM VITAE ABREVIADO (CVA)

Part A. PERSONAL INFORMATION *

First name	Adela		
Family name	del Río Ortega		
Gender (*)	Female	URL Web	https://prisma.us.es/investigador/3543
Open Researcher and Contributor ID (ORCID) (*)	0000-0003-3089-4431		

(*) Mandatory

A.1. Current position

Position	Prof. Titular de Universidad		
Initial date	27/05/2021		
Institution	Universidad de Sevilla		
Department/Center	Lenguajes y Sistemas Informáticos	ETS. Ing. Informática	
Country	Spain	Teleph. number	
Keywords	Business process management, Information System Engineering		

A.2. Previous positions (research activity interruptions, indicate total months)

Period	Position/Institution/Country/Interruption cause
2019-2021	Prof. Contratado Doctor/ Univ. Sevilla / España
05/2018-12/2018	Prof. Ayudante Doctor/ Univ. Sevilla / España/ **Maternity**, 7m
2016-2019	Prof. Ayudante Doctor/ Univ. Sevilla / España
2015-2016	Prof. Sustituto Interino/ Univ. Sevilla / España
12/2013-05/2014	Prof. Sustituto Interino Asim. asociado/ Univ. Sevilla / España/ **Maternity,** 5m
2013-2015	Prof. Sustituto Interino Asimilado a asociado/ Univ. Sevilla / España
03/2013-10/2013	Becaria Postdoctoral Excelencia/ Univ. Sevilla / España
03/2011-09/2011	Beca Personal Investigador en Formación/ Univ. Sevilla / España/ **Maternity**, 5m

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Doctor Ing. Informática	Universidad de Sevilla	2012
MSc. Ingeniería y Tecnología del Software	Universidad de Sevilla	2008
Ingeniero en Informática	Universidad de Sevilla	2007

Part B. CV SUMMARY *(max. 5000 characters, including spaces)*

Adela del Río has over 15 years of experience as a faculty member at the University of Seville (US). She obtained her Degree in Computer Engineering in 2007 at the US, including a study period at Humboldt University of Berlin, and her PhD with international mention in 2012. She is currently a Profesora Titular de Universidad, a member of the "Smart Computer Systems Research and Engineering" Excellence Unit, and a researcher in the Applied Software Engineering group. She held a four-year FPI predoctoral grant and a subsequent one-year postdoctoral contract.

With her PhD thesis, she established the Business Process Management (BPM) research line in her group. She is a member of the steering committee of the BPM international conference series and served as PC chair in 2022 and General Chair in 2025. Her research has mainly focused on the performance perspective of business processes. During her PhD, she worked on the definition and automatic analysis of Process Performance Indicators (PPIs), producing seminal contributions that positioned her as an international reference in process performance management. She is the lead author of the invited entry on Process Performance Measurement in the *Encyclopedia of Big Data Technologies* (Springer). Her

recent work explores natural language processing and large language models for performance management, coordination support, and the human perspective of process performance, including the identification of behavioral work patterns and their impact on productivity and well-being.

She has published in journals such as *Business & Information Systems Engineering (BISE)*, *Information Systems (IS)*, and *ACM Transactions on Internet Technology*, and in conferences such as CAiSE, CoopIS, BPM, and HICSS. According to Google Scholar, she has 1218 citations, an h-index of 18, and an i10-index of 27. Her seminal work on PPI definition published in CoopIS has 117 citations, and its extension in *Information Systems* has 199 citations. According to Scopus, 51.5% of her publications are international collaborations, 21.2% are in the top 10% most cited worldwide, and her five-year field-weighted citation impact is 1.66. She has two recognised six-year research periods (sexenios, 2010-2022).

Her research experience is complemented by six research stays (15 months total) with leading BPM researchers, including Prof. M. Weske (HPI Potsdam), Prof. H. Reijers (VU Amsterdam, Utrecht University), Prof. F. Santoro (UNIRIO), Prof. F. García (UCLM), and Profs. A. Marrella and M. Mecella (Sapienza University of Rome). She has collaborated with over 50 researchers through publications, project proposals, research stays, and event organization, including co-organizing a Dagstuhl Seminar in 2024. As a result of highly applied research, she developed two registered software tools, PPINOT for automatic PPI management and CRISTAL for resource allocation, both transferred to industry, generating an estimated 60k euros. Notable examples include a collaboration with Accenture supporting the Andalusian Health Service and the co-development of a PPI platform with the Dutch start-up Cupenya.

Adela has participated in more than 10 national and international projects, has been Principal Investigator (PI) of a national project, and is PI of a regional one. Particularly relevant are the European projects S-CUBE (FP7), which seeded her work on PPIs, and RISE-BPM (H2020), where she was local coordinator. She is the US contact person in the ERCIS international network, and a member of the Joint R&I Group on Applied Artificial Intelligence for Business Information Systems (AI4BIS), funded by the Ulysseus Seed Funding Programme.

She has supervised one PhD thesis and served as a mentor in the "Mentoring Program for Female PhD Students" at the University of Paderborn. She has been a programme committee member in more than 25 research events, including BPM and CAiSE, was Workshop Chair of BPM 2020, and PC Chair of BPM 2022. She received the Best Reviewer Award at CAiSE 2021 and is a regular reviewer for top-tier journals such as BISE, Computing, Information Systems, ACM ToIT, EIS, and KNOSYS. She has also served as Guest Editor of the BISE Special Issue "Exploring the (Mis)Match Between Real-World Processes and Event Data" (2025). She evaluates proposals for research agencies in Uruguay and Argentina, as well as for grant and academic evaluation processes in European institutions including TUM and the University of Vienna. She has served on PhD committees at universities such as TU Eindhoven, Utrecht, Potsdam and Tartu for students supervised by leading BPM scholars (e.g., van der Aalst, Reijers, Weske, Dumas). She also engages in scientific dissemination through invited talks on artificial intelligence for the Senior University Programme ("Aula de la Experiencia") at the University of Seville.

Part C. RELEVANT MERITS *(sorted by typology)*

C.1. Publications

1. Adela del-Río-Ortega, Iris Beerepoot, Han van der Aa, Joerg Evermann: Mapping Uncharted Territory. Bus. Inf. Syst. Eng. 67(3): 305-309 (2025).
2. M. Röglinger, R. Plattfaut, V. Borghoff, […], Peter Trkman: Exogenous Shocks and Business Process Management: A Scholars' Perspective on Challenges and Opportunities. Bus. Inf. Syst. Eng. Bus. Inf. Inf. Eng. 64(5): 669-687 (2022). [Authors sorted alphabetically after the core team. Position 9/13]. Collaboration of more than 10 institutions.

3. D. Beverungen, J. C. A. M. Buijs, J. Becker, […], Verena Wolf: Seven Paradoxes of Business Process Management in a Hyper-Connected World. Bus. Inf. Syst. Eng. 63(2): 145-156 (2021) [Authors sorted alphabetically. Position 17/24]. Collaboration of more than 10 institutions.
4. A. E. Márquez Chamorro, K. Revoredo, M. Resinas, A. del-Río-Ortega, F. M. Santoro, A. Ruiz-Cortés: Context-Aware Process Performance Indicator Prediction. IEEE Access 8: 222050-222063 (2020)
5. A. del-Río-Ortega, M. Resinas, A. Durán, B. Bernárdez, A. Ruiz-Cortés, M. Toro: Visual ppinot: A Graphical Notation for Process Performance Indicators. Bus. Inf. Syst. Eng. 61(2): 137-161 (2019).
6. B. Estrada-Torres, P.H. Piccoli Richetti, A. del-Río-Ortega, F. Araujo Baião, M. Resinas, F.M. Santoro, A. Ruiz-Cortés: Measuring Performance in Knowledge-intensive Processes. ACM Trans. Internet Techn. 19(1): 15:1-15:26 (2019)
7. H. van der Aa, H. Leopold, A. del-Río-Ortega, M. Resinas, H.A. Reijers: Transforming unstructured natural language descriptions into measurable process performance indicators using Hidden Markov Models. Inf. Syst. 71: 27-39 (2017)
8. A. del-Río-Ortega, M. Resinas, A. Durán, and A. Ruiz-Cortés. "Using templates and linguistic patterns to define process performance indicators". Enterprise Inf. Syst. 2016. 10(2): 159-192.
9. C. Cabanillas, M. Resinas, A. del-Río-Ortega, A. Ruiz Cortés: Specification and automated design-time analysis of the business process human resource perspective. Inf. Syst. 52: 55-82 (2015)
10. A. del-Río-Ortega, M. Resinas, C. Cabanillas, A. Ruiz Cortés: On the definition and design-time analysis of process performance indicators. Inf. Syst. 38(4): 470-490 (2013)

C.2. Congress, indicating the modality of their participation (they are all oral presentations)

1. Simone Agostinelli, Adela del-Río-Ortega, Rocío Goñi-Medina, Andrea Marrella, Manuel Resinas, Jacopo Rossi: Automating Performance Insights: Suggesting and Computing Process Performance Indicators from Event Logs. CAiSE 2025: 221-237
2. Iris Beerepoot, Manuel Resinas, Adela del-Río-Ortega, Hajo A. Reijers, Pernille Bjørn: Understanding Distributed Cooperative Work through Data Traces. ECSCW 2025
3. A. Modlinski, D. Kedziora, […], H.A. Reijers, A. del-Río-Ortega: Techno-empowerment of Process Automation: Understanding Employee Acceptance of Autonomous AI in Business Processes. BPM 2024: 511-527
4. M. Resinas, A. del-Río-Ortega, H. van der Aa: From Text to Performance Measurement: Automatically Computing Process Performance Using Textual Descriptions and Event Logs. BPM 2023: 266-283. https://doi.org/10.1007/978-3-031-41620-0_16.
5. J. Peña, A. Bravo, A. del-Río-Ortega, M. Resinas, A. Ruiz-Cortés: Design Patterns for Board-Based Collaborative Work Management Tools. CAiSE 2021: 177-192
6. A. del-Río-Ortega, J. Peña, M. Resinas, A. Ruiz-Cortés: Productivity Challenges in Digital Transformation and its Implications for Workstream Collaboration Tools. HICSS 2021: 1-10
7. Ü. Aksu, A. del-Río-Ortega, M. Resinas, H. A. Reijers: An Approach for the Automated Generation of Engaging Dashboards. OTM Conferences 2019: 363-384
8. B. Estrada-Torres, A. del-Río-Ortega, M. Resinas, A. Ruiz-Cortés: On the Relationships Between Decision Management and Performance Measurement. CAiSE 2018: 311-326
9. A. del-Río-Ortega, F. García, M. Resinas, E. Weber, F. Ruiz, A. Ruiz-Cortés. "Enriching Decision Making with Data-Based Thresholds of Process-Related KPIs". CAiSE 2017. 193-209.
10. H. van der Aa, A.del-Río-Ortega, M. Resinas, H. Leopold, A. Ruiz-Cortés, J. Mendling, H. A. Reijers: Narrowing the Business-IT Gap in Process Performance Measurement. CAiSE 2016: 543-557
11. A. del-Río-Ortega, A.M. Gutiérrez, A. Durán, M. Resinas, A. Ruiz-Cortés: Modelling Service Level Agreements for Business Process Outsourcing Services. CAiSE 2015: 485-500
12. A. del-Río-Ortega, M. Resinas, A. Durán, A. Ruiz-Cortés: Defining Process Performance Indicators by Using Templates and Patterns. BPM 2012: 223-228
13. A. del-Río-Ortega, M. Resinas, A. Ruiz-Cortés: Defining Process Performance Indicators: An Ontological Approach. OTM Conferences (1) 2010: 555-572

C.3. Research projects

1. ESTELA: ESpacio de trabajo inTELigente: Orquestando la productividAd, el rendimiento y la conformidad en procesos de negocio. Convocatoria 2024 de *Investigación Aplicada y Desarrollo*

Experimental (Línea 2 EIDIA). Propuesta resolución provisional: aceptada. 3 años, 109.000€. PI: Adela de Río Ortega and Cristina Cabanillas.

2. ORCHID: Digital Transformation of the Public Administration Driven by Intelligent Contracts. Proyectos de Transición Ecológica Y Transición Digital 2021. 01/12/2022-30/11/2024. 219.075€. PI: Manuel Resinas and Adela de Río Ortega. Part of project LOTUS.
3. MEMENTO. Herramientas software para la colaboración y toma de decisiones en procesos basados en el conocimiento (US-1381595). *Proyectos de I+D+i en el marco del Programa Operativo FEDER Andalucía 2014-2020.* 01/1/21-31/12/22. 90.000€. IP: Manuel Resinas and Amador Durán. Participation as researcher.
4. EKIPMENT+. Mejora del rendimiento de procesos basados en conocimiento: Un enfoque empírico multidisciplinar basado en personas, equipos, software y datos (P18-FR-2895). *Proyectos frontera. Conserjería de Conocimiento, Invstigación y Universidad (Junta de Andalucía).* 01/01/20-31/12/22. 120.625€. IP: Manuel Resinas and Amador Durán. Participation as researcher.
5. OPHELIA. Optimisation of Human-based Knowledge-Intensive Services with Service-based Applications (RTI2018-101204-B-C22). *Proyectos I+D+i orientado a Retos de la sociedad.* 01/01/19-31/12/21. 147.136€. IP: Manuel Resinas and David Benavides. Part of project HAMLET. Participation as researcher.
6. RISE_BPM. Propelling Business Process Management by Research and Innovation Staff Exchange. *H2020 Marie Sklodowska-Curie Research and Innovation Staff Exchange*. 01/05/2014 – 01/05/2018. 855.000€ (94.500€ for Universidad de Sevilla). PI: Manuel Resinas and Antonio Ruiz. Participation as local coordinator.

C.4. Contracts, technological or transfer merits

1. MARCOS: soporte en la investigación, desarrollo y soporte de arquitecturas MARCO orientadas a Servicios para el Servicio Andaluz de Salud. Funding organisation: ISOTROL. PIs: Sergio Segura y Pablo Fernández. 15/11/2015 - 15/05/2016 (6 months). 9,500€.
2. PROSAS: Investigación y Desarrollo en el área de procesos de los Servicios Horizontales de Tecnologías de la Información y las Comunicaciones del Servicio Andaluz de Salud. Accenture. 23/02/2015 – 23/03/2016. 43.560€. PI: Manuel Resinas y Antonio Ruiz
3. BPCMS. Desarrollo e implantación de un sistema de gestión de la conformidad de procesos de negocio. ENEL ENERGY EUROPE. 15/02/2012- 30/09/2013. 60.000 €. PI: Antonio Ruiz Cortés
4. Solución SaaS integral para el diagnóstico automático en lenguaje natural de problemas IT y resolución semi-automática de los mismos, en base a políticas de seguridad de cortafuegos. OPN – INNPACTO (Ministerio de Economía y Competitividad). 17/07/2012 – 31/12/2015. PI: Antonio Ruiz Cortés
5. URBANHEALTH. ICINETIC. 30/03/2011 – 15/11/2011. 8.260€. PI: Manuel Resinas

Registered tools.

Intellectual property on 2 software tools: PPINOT, for the management of PPIs and CRISTAL, for the management of human resources on business processes. They have been the core of Adela's participation in the different R&D contracts. Specifically, the cost of licensing and adaptation of these tools by 4 companies in R&D contracts amounts to more than 60,000€. PPINOT has been used to compute PPIs in service level agreements by the Andalusian Health Service. Also, it has been used with the same aim at the Consejería de Hacienda y Administraciones Públicas of la Junta de Andalucía. It is being used for teaching at the University of Tilburg (Holanda) and UNIST (Corea del Sur). CRISTAL has been the core of the solution delivered to the department of IT compliance at ENEL ENERGY EUROPE (before ENDESA) in the Project BPCMS. It has also been used in a technology transfer project performed by the WU Wien with Siemmens.

C.5 Profiles

Google Scholar: https://scholar.google.es/citations?user=Al0vo7sAAAAJ&hl=es
DBLP: http://dblp.uni-trier.de/pers/hd/d/del=R=iacute=o=Ortega:Adela