

CURRICULUM VITAE (CVA) – maximum 4 pages

CV date	08-05-2023
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Part A. PERSONAL INFORMATION

First name	José Ramón		
Family name	Jiménez Romero		
Gender (*)	Masculine	Birth date	Not For Public Release
ID number	Not For Public Release		
e-mail	jrjimenez@uco.es		URL Web
Open Research and Contributor ID (ORCID) ^(*) : 0000-0001-8414-4615			

^(*) Mandatory

A.1. Current position

Position	Full Professor (Catedrático de Universidad)		
Initial date	19/05/2022		
Institution	Universidad de Córdoba		
Department/Centre	Ingeniería Rural, Construcciones Civiles y Proyectos de Ingeniería. Escuela Politécnica Superior de Belmez (Córdoba)		
Country	Spain	Teleph. number	+34 667524702
Key words	Sustainable construction, circular economy, carbon capture and utilization, CO ₂ uptake, life cycle analysis, concrete, mortar, recycled materials, alkali-activated materials		

A.2. Previous positions (research activity interruptions, art. 45.2.c))

Period	Position/Institution/Country/Interruption cause
2016-2022	Profesor Titular de Universidad / Universidad de Córdoba / Spain
2012-2016	Profesor Contratado Doctor / Universidad de Córdoba / Spain
2004-2012	Profesor Colaborador / Universidad de Córdoba / Spain

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD Ingeniero Agrónomo	Universidad de Córdoba	2003
Ingeniero Agrónomo	Universidad de Córdoba	1997

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

José Ramón Jiménez is currently Full Professor (Catedrático de Universidad) of Construction Engineering Area at the University of Córdoba (Spain). He was the Principal Investigator of the Research Group TEP-227 "Construction Engineering" with 10 PhD researchers and 6 PhD students (2018-2021). He is Dean of EPS de Belmez (Universidad de Córdoba) since 2022. He also was Director for Academic Planning at the University of Córdoba (2014-2022). He worked as Consulting Engineer (1997-2004), during this period he was author of 58 Engineering Projects and Director of 37 engineering works. He started at the University as a Lecturer in 2004. Demonstrated leadership capacity as Principal Investigator (PI) of the following competitive research projects: PRECAST_AA_CO₂ (2022-2024) funded by Ministerio de Ciencia e Innovación: 192.050 €; PRECAST_CO₂ (2020-2024) funded by Ministerio de Ciencia e Innovación: 145.200 €; PREFABRICO-I (2021-2022) funded by Programa Operativo FEDER Andalucía 2014-2022: 45.500 €; PREFABRICO-II (2021-2022) funded by Consejería de Transformación Económica, Industria, Conocimiento y Universidades de la Junta de Andalucía (2021-2022): 57.000 €; ROXSTOP (2017-2019) funded by Ministerio de Ciencia, Innovación y Universidades (CDTI): 96.800 €; CICLOVÍAS (2013-15) funded by Consejería de Fomento de la Junta de Andalucía: 315,813 €; HAWAI (2016-2019) funded by the XXI – Research Plan – Universidad

de Córdoba: 54.000 €. Principal Investigator of eight research contracts funded by private and public companies: ENRESA, PLODER-UICESA, PAMASA, TRAGSA, AIDICE, ORIVA (2009-2022): 203,293 €. He has participated as a researcher in a total of four competitive research projects (National and regional) and 16 research contracts with companies, the funding obtained with these projects exceeds 1.6 million euros in the period 2009-2022.

Among the main scientific / technical advances carried out highlights the generation of knowledge in the field of sustainable construction, circular economy and carbon capture and utilization. He has published 72 JCR-papers, 45 of which are published in Q1 Journals and 25 of them published in the first decile. Corresponding author of 40 JCR papers. h-index: 27 (Scopus). Normalized impact factor (2017-2020): 1.17 calculated with data from global citation averages of Scopus categories and citations. He has participated over 50 national and international conferences (RILEM, TRB, CIGR-Ageng). He co-authored 3 books and 3 international chapter of books edited by Bellisco and Woodhead Publishing-Elsevier. He also co-authored 2 technical recommendations guides and 1 catalogue of work units made with recycled materials. Reviewer in 21 peer-review international journals (141 articles verified by Publons). Main research topics: I) CO₂ capture and utilization in cement-base and alkali-activated materials (decarbonization), II) Valorisation of industrial waste in cement-based and alkali-activated materials (Circular Economy) and III) Immobilization of hazardous waste in cement-based matrices.

He now teaches mainly at the Civil Engineering Degree and four different Master's Degree. He participates in the PhD Program - Agricultural, Food, Forestry and Sustainable Rural Development (research line: construction engineering and technological innovations in the rural world). He has supervised 7 PhD-thesis and more than 250 Degree and Master students. Currently he is supervising 3 PhD-thesis, two of them funded as FPU-PhD students. He has been coordinator of the Civil Engineering Degree (2010-13), Assistant Director of Academic Organization – School of Engineering Sciences of Belmez (2013-14). General Director of Academic Planning at the University of Córdoba (2014-2022). Member of the Technical Committee of the RILEM "Structural behaviour and innovation of recycled aggregate concrete". External Referee of the European Research Council Executive Agency (ERCEA). He currently has research lines with Dr. J. de Brito (Portugal) and Dr. V. Corinaldesi (Italy) and Dr. Álvarez-Galindo (Spain). Short stays in six European Universities (Italy, Portugal, France and Poland). Chairman (Organizing Committee) of the International Conference on Green Construction (ICGC-2019), Córdoba (Spain) – April 2019. Chairman (Organizing Committee) of the Second International Conference on Green Construction (ICGC-2022), Córdoba (Spain) – May 2022.

Part C. RELEVANT MERITS

C.1. Publications (2012-2022). First Decile and/or First Quartile (J.R. Jiménez is corresponding author)

1. Cantador-Fernández, D., Morales, D. S., [Jiménez, J. R.](#), & Fernández-Rodríguez, J. M. (2022). CO₂ adsorption by organohydrotalcites at low temperatures and high pressure. *Chemical Engineering Journal*, 134324. (**Open access**)
2. Pawluczuk, E., Kalinowska-Wichrowska, K., [Jiménez, J. R.](#), Fernández-Rodríguez, J. M., & Suescum-Morales, D. (2021). Geopolymer concrete with treated recycled aggregates: Macro and microstructural behavior. *Journal of Building Engineering*, 44, 103317. (**Open access**)
3. Suescum-Morales, D., Ríos, J. D., Martínez-De La Concha, A., Cifuentes, H., [Jiménez, J. R.](#), & Fernández, J. M. (2021). Effect of moderate temperatures on compressive strength of ultra-high-performance concrete: A microstructural analysis. *Cement and Concrete Research*, 140, 106303.
4. Suescum-Morales, D., Cantador-Fernández, D., [Jiménez, J. R.](#), & Fernández, J. M. (2021). Potential CO₂ capture in one-coat limestone mortar modified with Mg₃Al-CO₃ calcined hydrotalcites using ultrafast testing technique. *Chemical Engineering Journal*, 415, 129077.
5. Suescum-Morales, D., Cantador-Fernández, D., Fernández, J. M., & [Jiménez, J. R.](#) (2021). The combined effect of CO₂ and calcined hydrotalcite on one-coat limestone mortar properties. *Construction and Building Materials*, 280, 122532.

6. Suescum-Morales, D., Kalinowska-Wichrowska, K., Fernández, J. M., & [Jiménez, J. R.](#) (2021). Accelerated carbonation of fresh cement-based products containing recycled masonry aggregates for CO₂ sequestration. *Journal of CO₂ Utilization*, 46, 101461.
7. Suescum-Morales, D., Cantador-Fernández, D., [Jiménez, J. R.](#), & Fernández, J. M. (2021). Mitigation of CO₂ emissions by hydrotalcites of Mg₃Al-CO₃ at 0° C and high pressure. *Applied Clay Science*, 202, 105950.
8. Suescum-Morales, D., Romero-Esquinas, A., Fernández-Ledesma, E., Fernández, J.M., [Jiménez, J.R.](#) (2019). Feasible use of colliery spoils as subbase layer for low-traffic roads. *Construction and Building Materials*, 229, 116910.
9. Lozano-Lunar, A., da Silva, P. R., de Brito, J., Álvarez, J. I., Fernández, J. M., [Jiménez, J. R.](#) (2019). Performance and durability properties of self-compacting mortars with electric arc furnace dust as filler. *Journal of Cleaner Production*, 219, 818-832.
10. Ledesma, E. F., [Jiménez, J. R.](#), Ayuso, J., Fernández, J. M., de Brito, J. (2017). Experimental study of the mechanical stabilization of electric arc furnace dust using fluid cement mortars. *Journal of Hazardous Materials*, 326, 26-35.

C.2. Congress (Not included due to lack of space)

C.3. Research projects

Referencia: TED2021-132095B-I00. Título: “PRECAST_AA_CO₂ – Descarbonisation of precast concrete with new alkaline activation and CO₂ curing technologies. Convocatoria: Proyectos Transición Ecológica y Transición Digital. Convocatoria 2021. Ministerio de Ciencia e Innovación. Gobierno de España. **PI:** [J.R. Jiménez](#) and J.M. Fernández. Start-end year: 2022-2024. Total budget: 192.050 €

Referencia: UCO-1381172. Título: “PREFABRI_CO₂-I – Nuevas alternativas de captura y valorización de CO₂ industrial en prefabricados de hormigón” Convocatoria: Ayudas a Proyectos I+D+I en el marco del Programa Operativo FEDER ANDALUCÍA 2014-2020. Convocatoria 2020. Consejería de Economía, conocimiento, Empresas y Universidad. Junta de Andalucía. **PI:** [J.R. Jiménez](#) and J.M. Fernández. Start-end year: 2022. Total budget: 45.500 €.

Referencia: P20_00409. Título: “PREFABRI_CO₂-II – Nuevas alternativas de captura y valorización de CO₂ industrial en prefabricados de hormigón” Convocatoria de subvenciones a Proyectos de I+D+i – Universidades y entidades públicas. Convocatoria 2020. Consejería de Conocimiento, Investigación y Universidad. Junta de Andalucía. **PI:** [J.R. Jiménez](#). Start-end year: 2021-2022. Total budget: 57.000 €.

Referencia: PID2019-111029RB-I00. Título: “PRECAST_CO₂ – New alternatives of capture and utilization of CO₂ in the manufacture of concrete precast pieces” Convocatoria: Proyectos I+D+I orientada a los Retos de la Sociedad, convocatoria 2019. Ministerio de Ciencia e Innovación. Gobierno de España. **PI:** [J.R. Jiménez](#) and J.M. Fernández. Start-end year: 2020-2024. Total budget: 145.200 €

Reference: UCO-1262554. Title: Materiales para filtros de depuración de aguas delimpieza de EAPF y encapsulación en matrices base cemento. Funded by: Proyectos I+D+i – Programa Operativo FEDER Andalucía 2014-2020. Consejería de Economía, Conocimiento, Empresas y Universidad. Junta de Andalucía. **PI:** J.M. Fernández and [J.R. Jiménez](#). Start-end year: 2019-2020. Total budget: 7.500 €.

Reference: IDI-20170062. Title: ROXSTOP-Barreras dinámicas de protección contra el desprendimiento de rocas. Funded by: Desnivel Agraraltura SL & Ministerio de Economía, Industria y Competitividad (CDTI). Gobierno de España. **PI:** [J.R. Jiménez](#). Start-end year: 2017-2019. Total budget: 96.800 €.

Reference: XXI P.P. Modalidad 4.2 (2016). Title: Hormigones y morteros autocompactantes modificados para estabilización/solidificación de residuos peligrosos tipo metales pesados y herbicidas (HAWAI). Funded by: Universidad de Córdoba. **PI:** [J.R. Jiménez](#) and J.M. Fernández. Start-end year: 2016-2019. Total budget: 54.000 €.

Reference: G-GI3002-IDIE. Title: Análisis de la percepción - demanda social de los usuarios de las vías ciclistas andaluzas y estudio pre-normativo para reducir los accidentes por deslizamiento/derrape con pavimento mojado y mal tiempo.(CICLOVÍAS). Funded by: Consejería de Fomento y Vivienda. Junta de Andalucía. Fondos FEDER. **PI:** [J. R. Jiménez](#). Start-end year: 2013-2015. Total budget: 315.813 €.

Reference: G-GI3003-IDIB Title: Optimización potencial de techos verdes para la rehabilitación energética de edificios: interacción entre sustratos reciclados, propiedades hídricas y eficiencia energética. Funded by: Consejería de Fomento y Vivienda. Junta de Andalucía. Fondos FEDER. PI: Tom Vanwalleghem (UCO). Start-end year: 2014-2015. Total budget: 103.309 €. **Role: J.R. Jiménez is member of the research team.**

Reference: G-GI3000/IDI0. Title: Aplicaciones de los áridos reciclados de residuos de construcción y demolición (RCD) para la construcción sostenible de infraestructuras viarias en Andalucía central. Funded by: Consejería de Fomento y Vivienda. Junta de Andalucía. Fondos FEDER. Principal Investigator: J. Ayuso Muñoz. Start-end year: 2012-2014. Total budget: 301.962 €. **Role: J.R. Jiménez is member of the research team. Project Secretary (similar to PI-2).**

C.4. Contracts, technological or transfer merits

Reference-OTRI: Convenio de compra pública innovadora (CPI). Title: Innovación y Tecnificación del Olivar “Innolivar”. Funded by: Fondos FEDER. Ministerio de Economía, Industria y Competitividad. Interprofesional del Aceite de Oliva y de la Aceituna de Mesa. PI: J. Gil Ribes (UCO). Start-end year: 2018-2022. Total budget: 13.098.734 €. **Role: J.R. Jiménez is member of the research team - Línea 5 - Actuaciones de lucha contra la erosión.**

Ref-OTRI 12019049. Title: Estudio de nuevos materiales para la construcción sostenible con el medio ambiente. Funded by: ADICE S.L. **PI: J.R. Jiménez y J.M. Fernández.** Start-end year: 2019-2020. Total budget: 36.300 €.

Ref-OTRI 12012014. Title: Morteros de acondicionamiento de residuos RBBA con AR. Funded by: ENRESA. **PI: J.R. Jiménez.** Start-end year: 2012-2013. Total budget: 41.530 €.

Ref-OTRI 12012023. Title: Desarrollo de hormigones autocompactantes para su utilización en las instalaciones de El Cabril. Funded by: ENRESA. PI: J.M. Fernández. Start-end year: 2012-2013. Total budget: 54.763 €. **Role: J.R. Jiménez is member of the research team.**

Ref-OTRI 12009131. Title: Reciclaje de los RCD generados en las zonas expropiadas del aeropuerto de Córdoba en las obras de infraestructura derivadas de la ampliación de pista. Funded by: PLODER-UICESA. **PI: J.R. Jiménez.** Start-end year: 2009-2010. Total budget: 25.590 €.

Ref-OTRI 12008141. Title: Aplicación de áridos reciclados en la conformación de explanadas y capas estructurales de firmes de carreteras. Funded by: SACYR. PI: F. Agrela. Start-end year: 2008-2011. Total budget: 123.818 €. **Role: J.R. Jiménez is member of the research team.**

C.5. Thesis supervised

PhD José Requena Pérez. Title: New formulation for the calculation of the seat of shoes on sands based on the finite element method. Date: 32/01/2013. Mark: Sobresaliente Cum Laude. **Supervisors: J.R. Jiménez and J. Ayuso.** **PhD Enrique Fernández Ledesma.** Title: Use of industrial waste in masonry mortar manufacturing. Date: 08/06/2016. Mark: Sobresaliente Cum Laude. Mención Europea. **Supervisors: J.R. Jiménez and J. Ayuso.** **PhD Ana Isabel Torres Gómez.** Title: Valorization of fly ash production plants energy and waste construction and demolition in industrial mortars. Date: 15/03/2018. Mark: Sobresaliente Cum Laude. **Supervisors: J.R. Jiménez and J.M. Fernández.** **PhD Álvaro Romero Esquinas.** Title: Study of self-compacting concrete made with industrial waste as filler. Research Scholar MECD-Spain 2014. Date: 04/12/2018. Mark: Sobresaliente Cum Laude. **Supervisors: J.M. Fernández and J.R. Jiménez.** **PhD Javier Távira Díaz.** Title: Técnicas no destructivas de auscultación aplicadas a la rehabilitación de firmes en Andalucía. **Supervisors: J.R. Jiménez and E.F. Ledesma.** Date: 30/07/2020. Mark: Sobresaliente Cum Laude. **PhD Angélica Lozano Lunar.** Title: Optimización de la tecnología de inmovilización de residuos tóxicos y peligrosos en morteros fluidos y autocompactantes. Research Scholar MECD-Spain 2015. **Supervisors: J.R. Jiménez and J.M. Fernández.** Date: 18/12/2020. Mark: Sobresaliente Cum Laude. **PhD David Suescum Morales.** Title: CO2 capturing construction materials for climate change mitigation. Research Scholar MECD-Spain 2018. **Supervisors: J.R. Jiménez and J.M. Fernández.** Date: 25/07/2022. Mark: Sobresaliente Cum Laude.