

CV Date

29/12/2024

Part A. PERSONAL INFORMATION

First Name	Joaquin		
Family Name	García- Sansegundo		
Sex	Not Specified	Date of Birth	
ID number Social Security, Passport			
URL Web	https://portalinvestigacion.uniovi.es/investigadores/217455/detalle		
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Open Researcher and Contributor ID (ORCID)	0000-0003-3914-9809		

A.1. Current position

Job Title	Catedrático de Universidad		
Starting date	2024		
Institution	Universidad de Oviedo		
Department / Centre	Geología / Facultad de Geología		
Country		Phone Number	
Keywords	Geology		

A.3. Education

Degree/Master/PhD	University / Country	Year
Geología Estructural	Universidad de Oviedo	1991

Part B. CV SUMMARY

PhD.in Geology (University of Oviedo), research focuses on Structural Geology and Tectonics. The research lines are related to the Geodynamic evolution of the Pyrenees, the Variscan Orogen and the Andes. In the Cantabrian Mountains, research focuses on the Alpine structure and the structural control of the karst. The work carried out has always been based on geological mapping and structural studies at all scales. This research has allowed me to delve into the geological problems of large areas of Southern Europe and South America and has provided experience in the following specialties of Applied Geology: (1) exploration of Au, Ag, Zn, Pb, Hg deposits, and in other substances, such as Mn, potashes, etc.; (2) analysis of karstic processes; (3) collaboration with hydrogeological studies; (4) viability of cement quarries; and (5) support for the construction of large public works.

RESULTS OF THE RESEARCH ACTIVITY

- **21** Funded Projects in Public Calls (3 as leader).
- **22** Contracts with Public Research Organizations and companies (16 as leader).
- **24** Projects in collaboration with companies.
- **43** Publications in the WEB of Science (WOS): 38 articles and 5 book chapters.
- **35** Publications not included in the WOS: 19 articles (11 in Scopus), 16 book chapters (4 in Scopus) including 6 subchapters and 8 plates.
- **17** Books (4 books and 13 proceedings of geological maps).
- **16** Geological maps.
- **80** Conference publications (42 abstracts, 21 extended abstracts and 17 journal articles).
- **86** Communications from conferences and congresses.
- **47** Unpublished reports

Part C. RELEVANT ACCOMPLISHMENTS

C.1. Most important publications in national or international peer-reviewed journals, books and conferences

AC: corresponding author. (nº x / nº y): position / total authors. If applicable, indicate the number of citations

- 1 **Scientific paper.** A. Margalef; P. Clariana; J.M. Casas; (4/4) J. García-Sansegundo. 2024. Geology of the basement rocks of Andorra, central Pyrenees. *Journal of Maps*. 20-1. WOS (0), SCOPUS (0)
- 2 **Scientific paper.** Pilar Clariana; (2/2) Joaquín García-Sansegundo. 2024. Relationship between metamorphism and Variscan deformation in the Pallaresa Massif, central sector of the Pyrenean Axial Zone. La relación entre el metamorfismo y la deformación varisca en el domo de La Pallaresa, sector central de la Zona Axial pirenaica. *Geogaceta*. 75, pp.31-34. WOS (0), SCOPUS (1), Google Scholar (0), ResearchGate (1) <https://doi.org/10.55407/geogaceta100690>
- 3 **Scientific paper.** (1/10) J. García-Sansegundo; P. Farias; G. Gallastegui; et al; O. García-Moreno. 2023. Paleozoic Gondwanan structure along the Maule river valley between Toconey and Constitución (35.4°S, Chilean Pacific coast). *Journal of South American Earth Sciences*. 123. WOS (1), SCOPUS (1), Google Scholar (1), ResearchGate (2)
- 4 **Scientific paper.** (1/6) J. García-Sansegundo; P. Farias; Á. Rubio-Ordóñez; P. Clariana; C. Cingolani; N. Heredia. 2023. Polyorogenic structure of the San Rafael Block, Mendoza, Argentina: New data for the interpretation of the Chanic Orogen. *Journal of South American Earth Sciences*. 124. WOS (3), SCOPUS (2), Google Scholar (2), ResearchGate (2)
- 5 **Scientific paper.** (1/2) J. García-Sansegundo; B. González Santano. 2023. Structure of the Paleozoic in the transition between the Garonna Dome and the Aran Valley Synclinorium and its relationship with metamorphism (Pyrenean Axial Zone), La estructura del Paleozoico en la transición entre el Domo del Garona y el Sinclinorio del Valle de Arán y su relación con el metamorfismo (Zona Axial pirenaica). *Trabajos de Geología*. 37, pp.55-79. SCOPUS (2), Google Scholar (2), ResearchGate (2)
- 6 **Scientific paper.** N. Heredia; F. Martín-González; P. Farias; et al; A.G. Flórez-Rodríguez; (4/9) J. García-Sansegundo. 2022. Geology of the Cabuérniga Fault System: evolution of a large Alpine structure with Variscan inheritance. *Journal of Maps*. 18-2, pp.168-177. WOS (3), SCOPUS (5), Google Scholar (6), ResearchGate (8)
- 7 **Scientific paper.** S. Serra-Varela; N. Heredia; R. Giacosa; (4/5) J. García-Sansegundo; P. Farias. 2022. Review of the polyorogenic Palaeozoic basement of the Argentinean North Patagonian Andes: age, correlations, tectonostratigraphic interpretation and geodynamic evolution. *International Geology Review*. 64-1, pp.72-95. WOS (17), SCOPUS (16), Google Scholar (21), ResearchGate (22)
- 8 **Scientific paper.** J. Lloret; J. López-Gómez; N. Heredia; et al; M. Lago; (9/15) J. García-Sansegundo. 2021. Transition between Variscan and Alpine cycles in the Pyrenean-Cantabrian Mountains (N Spain): Geodynamic evolution of near-equator European Permian basins. *Global and Planetary Change*. 207. WOS (13), SCOPUS (16), Google Scholar (19), ResearchGate (19)
- 9 **Scientific paper.** J. López-Gómez; F. Martín-González; N. Heredia; et al; G. Gand; (11/17) J. García-Sansegundo. 2019. New lithostratigraphy for the Cantabrian Mountains: A common tectono-stratigraphic evolution for the onset of the Alpine cycle in the W Pyrenean realm, N Spain. *Earth-Science Reviews*. 188, pp.249-271. WOS (34), SCOPUS (39), Google Scholar (47), ResearchGate (50)
- 10 **Scientific paper.** D. Ballesteros; S. Giralt; (3/4) J. García-Sansegundo; M. Jiménez-Sánchez. 2019. Quaternary regional evolution based on karst cave geomorphology in Picos de Europa (Atlantic Margin of the Iberian Peninsula). *Geomorphology*. 336, pp.133-151. WOS (29), SCOPUS (30), Google Scholar (41), ResearchGate (35)

- 11 Scientific paper.** M.A. Lopez-Sánchez; (2/3) J. García-Sansegundo; F.J. Martínez. 2019. The significance of early Permian and early Carboniferous U-Pb zircon ages in the Bossòst and Lys-Caillaouas granitoids (Pyrenean Axial Zone). *Geological Journal*. 54-4, pp.2048-2063. WOS (15), SCOPUS (19), Google Scholar (24), ResearchGate (27)
- 12 Scientific paper.** P. Clariana; P. Valverde-Vaquero; A. Rubio-Ordóñez; A. Beranoaguirre; (5/5) J. García-Sansegundo. 2018. Pre-Variscan tectonic events and Late Ordovician magmatism in the Central Pyrenees: U-Pb age and Hf in zircon isotopic signature from subvolcanic sills in the Pallaresa massif. *Journal of Iberian Geology*. 44-4, pp.589-601. WOS (8), SCOPUS (16), Google Scholar (18), ResearchGate (15)
- 13 Scientific paper.** N. Heredia; (2/12) J. García-Sansegundo; G. Gallastegui; et al; V.A. Ramos. 2018. Review of the geodynamic evolution of the SW margin of Gondwana preserved in the Central Andes of Argentina and Chile (28°-38° S latitude). *Journal of South American Earth Sciences*. 87, pp.87-94. WOS (23), SCOPUS (23), Google Scholar (27), ResearchGate (29)
- 14 Scientific paper.** D. Ballesteros; M. Jiménez-Sánchez; S. Giralt; I. DeFelipe; (5/5) J. García-Sansegundo. 2017. Glacial origin for cave rhythmite during MIS 5d-c in a glaciokarst landscape, Picos de Europa (Spain). *Geomorphology*. 286, pp.68-77. WOS (11), SCOPUS (13), Google Scholar (21), ResearchGate (16)
- 15 Scientific paper.** D. Ballesteros; M. Jiménez-Sánchez; (3/5) J. García-Sansegundo; S. Giralt; M. Meléndez-Asensio. 2017. Proposal of a new speleogenetical model for Picos de Europa (Cantabrian Mountains, Spain). Propuesta de un nuevo modelo espeleogenético para los Picos de Europa (Cordillera Cantábrica, España). *Geogaceta*. 62, pp.55-58. SCOPUS (0), Google Scholar (1)
- 16 Scientific paper.** C. López-Fernández; (2/6) J. García-Sansegundo; L. Pando; M.J. Domínguez-Cuesta; G. Fernández-Viejo; T. Díaz-Ortiz. 2016. Geological-geotechnical configuration and stability of the eastern slope of the Itoiz dam (Navarra, Spain), Configuración geológico-geotécnica y estabilidad de la ladera oriental de la presa de Itoiz (Navarra, España). *Trabajos de Geología*. 36, pp.297-310. SCOPUS (0), Google Scholar (1)
- 17 Scientific paper.** N. Heredia; (2/26) J. García-Sansegundo; G. Gallastegui; et al; V.A. Ramos. 2016. Late Neoproterozoic-Paleozoic geodynamic evolution of the Argentine-Chilean Andes and the Antarctic Peninsula, Evolución Geodinámica de los Andes argentino-chilenos y la Península Antártica durante el Neoproterozoico tardío y el Paleozoico. *Trabajos de Geología*. 36, pp.237-278. SCOPUS (35), Google Scholar (46), ResearchGate (36)
- 18 Scientific paper.** D. Ballesteros; M. Jiménez-Sánchez; S. Giralt; (4/5) J. García-Sansegundo; M. Meléndez-Asensio. 2015. A multi-method approach for speleogenetic research on alpine karst caves. Torca La Texa shaft, Picos de Europa (Spain). *Geomorphology*. 247, pp.35-54. WOS (31), SCOPUS (36), Google Scholar (48), ResearchGate (40)
- 19 Scientific paper.** Daniel Ballesteros; Montserrat Jiménez-Sánchez; María José Domínguez-Cuesta; Joaquín García-Sansegundo; Mónica Meléndez-Asensio. 2015. El patrimonio subterráneo del Parque Nacional de Los Picos de Europa (Norte de España). *Boletín de la Academia Malagueña de Ciencias*. 17, pp.93-99.
- 20 Scientific paper.** D. Ballesteros; A. Malard; P.-Y. Jeannin; M. Jiménez-Sánchez; (5/7) J. García-Sansegundo; M. Meléndez-Asensio; G. Sendra. 2015. KARSYS hydrogeological 3D modeling of alpine karst aquifers developed in geologically complex areas: Picos de Europa National Park (Spain). *Environmental Earth Sciences*. 74-12, pp.7699-7714. WOS (20), SCOPUS (20), Google Scholar (31), ResearchGate (26)
- 21 Book chapter.** B. Gonzalo-Guerra; N. Heredia; P. Farias; (4/5) J. García-Sansegundo; F. Martín-González. 2024. Superimposed brittle structures in polyorogenic contexts: Variscan and Alpine faults in the Duje Valley (Picos de Europa, Cantabrian Mountains, NW Spain). *Geological Society Special Publication*. 541-1, pp.237-271. WOS (0), SCOPUS (2), Google Scholar (4), ResearchGate (2)

- 22 Book chapter.** García-Moreno, O.; Álvarez-Lao, D.; Arbizu, M.; et al; Turrero, P.2020. The Little Big History of the Nalón River, Asturias, Spain. Routledge Companion to Big History. Routledge. pp.300-319. ISBN 9780429299322. WOS (1), Google Scholar (5), ResearchGate (4)
- 23 Book chapter.** Azor, Antonio; Dias da Silva, Icaro; Gómez Barreiro, J.; et al; Margalef, Aina. 2019. Deformation and Structure. The Geology of Iberia: A Geodynamic Approach. Springer, Cham. 2 The Variscan Cycle-Chapt 10. Variscan, pp.307-348. ISBN 978-3-030-10518-1. WOS (37), Google Scholar (45), ResearchGate (47)
- 24 Book chapter.** Heredia, Nemesio; García-Sansegundo, Joaquín; Gallastegui, Gloria; et al; Ramos, Victor A.2018. The Pre-Andean Phases of Construction of the Southern Andes Basement in Neoproterozoic–Paleozoic Times. The Evolution of the Chilean-Argentinean Andes. Springer. pp.111-131. ISBN 978-3-319-67774-3. WOS (41), Google Scholar (49), ResearchGate (50)
- 25 Book chapter.** M. Meléndez; M. Jiménez-Sánchez; I. Vadillo; et al; (9/9) J. García-Sansegundo. 2015. Environmental study of cave waters: A case study in Las Herrerías Cave (Llanes, Spain). Hydrogeological and Environmental Investigations in Karst Systems. J.W. La Moreaux (ed.). 1, pp.513-521. SCOPUS (0), Google Scholar (3)
- 26 Book chapter.** D. Ballesteros; M. Jiménez-Sánchez; M.J. Domínguez-Cuesta; (4/5) J. García-Sansegundo; M. Meléndez-Asensio. 2015. Geoheritage and geodiversity evaluation of endokarst landscapes: The Picos de Europa National Park, north Spain. Hydrogeological and Environmental Investigations in Karst Systems. J.W. La Moreaux (ed.). 1, pp.619-627. SCOPUS (6), Google Scholar (15), ResearchGate (11)

C.2. Conferences and meetings

- 1 Palape, C.; Heredia, N.; García-Sansegundo, J.; Farias, P.; Cuesta, A.; Hervé, F.; Muñoz-Montecinos, J.; Giulliani, A.. Procesos orogénicos durante el paleozoico del margen suroccidental de Gondwana en los Andes Norpatagónicos, transecta Valdivia-Liquiñe (40°S). XVI Congreso Geológico Chileno. Sociedad Geológica de Chile. 2023. Chile. 'Participatory - poster.'
- 2 Heredia, N.; Barrenechea, J.F.; de la Horra, R.; et al; Piñuela, L.. The Permian and Triassic of the central Cantabrian Mountains (Eastern Asturias-Western Cantabria, N Spain). Association of Permian and Triassic Geologists (AGPT), Cantabrian Mountains Field Trip. UNIOVI, CSIC, IGEO, AGPT, Univ. Complutense, Univ. Vigo, Univ. Rey Juan Carlos, IGME. 2022. Spain. Organizational - Scientific and organizing committee. Conference.

C.3. Research projects and contracts

- 1 **Project.** MCI-21-PID2020-114273GB-C22, Imagen de alta resolución de la estructura cortical de los Pirineos Centrales y el papel de la herencia Varisca en su evolución geodinámica" (IMAGYN). Ministerio de Ciencia e Innovación. Concepción Ayala Concepción. (Instituto Geológico y Minero de España). 01/09/2021-30/06/2025. 161.085 €.
- 2 **Project.** MCI-21-PID2020-118228RB-C21, Observatorio multiescala de procesos litosféricos y superficiales en un sistema poli-orogénico y sus impactos sociales: el laboratorio natural Cantábrico" (CANALAB). Ministerio de Ciencia e Innovación. David Pedreira Rodríguez. (Universidad de Oviedo). 01/09/2021-30/06/2025. 231.704 €.
- 3 **Project.** Geología del Paleozoico Inferior, las rocas más antiguas del Geoparque de Sobrarbe. Geoparque mundial UNESCO de Sobrarbe-Pirineos. Pilar Clariana García. (Centro Nacional Instituto Geológico y Minero de España del CSIC (CN IGME-CSIC)). 14/11/2023-13/11/2024. 3.420,95 €.
- 4 **Contract.** La geología del sector de los Huertos del Diablú (Parque Natural de Las Ubiñas-La Mesa, Asturias Parque Natural de Las Ubiñas-La Mesa a través de la Federación de Espeleología del Principado de Asturias. García-Sansegundo, J.15/07/2023-15/09/2023. 1.000 €.