

CV Date	15/02/2024
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Part A. PERSONAL INFORMATION

First Name	Joaquin		
Family Name	García- Sansegundo		
Sex	Not Specified	Date of Birth	
ID number Social Security, Passport			
URL Web	http://bit.ly/JoaquinGarciaSansegundo		
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Open Researcher and Contributor ID (ORCID)	0000-0003-3914-9809		

Part B. CV SUMMARY

RESEARCH

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)
- 46 Contracts with Public Research Organizations and companies (16 as leader)
- 40 Journal articles and chapter books, in the Scientific Citation Index (SCI)
- 35 Journal articles from non-SCI
- 17 Book Chapters from non-SCI
- 15 Books
- 19 Geological Maps
- 25 Publications in conference proceedings (extended abstracts)
- 86 Communications from conferences and congresses
- 47 Unpublished reports

TEACHING

Professor in the Department of Geology of the University of Oviedo, teaching for the last 30 years in:

(1) Subjects of the Faculty of Geology:

Geological Mapping, Field Work, Structural Geology, Tectonics, Comparative Tectonics, Internal Geodynamics, Geophysical and Geochemical Exploration and Structural Analysis

(2) Subjects of the Higher Technical School of Mining Engineers (Oviedo), University School of Mining Technical Engineering (Mieres) and Guillermo Schulz School of Higher Engineering (Mieres):

General Geology, Applied Geology, Structural Geology and Geological Mapping

(3) Subjects of the Doctoral Program in Geology (with Quality Mention) and Exploration, Analysis and Modeling of Basins and Systems Program:

Structural Analysis in the Hinterland Orogens

(4) Subjects of the Master's Degree in Geological Resources and Geological Engineering:

Geodynamics of Basins and Orogens, Microtectonics and Multidisciplinary field trip

(5) Direction of 3 PhD. Thesis (another 2 in progress), 12 Master's Thesis and 3 Degree Thesis

Part C. RELEVANT ACCOMPLISHMENTS

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

AC: corresponding author. (n° x / n° y): position / total authors. If applicable, indicate the number of citations

- 1 **Scientific paper.** Pilar Clariana; (2/2) Joaquín García-Sanseguno. 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. SCOPUS (0), Google Scholar (0) <https://doi.org/10.55407/geogaceta100690>
- 2 **Scientific paper.** (1/10) J. García-Sanseguno; 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), ResearchGate (2)
- 3 **Scientific paper.** (1/6) J. García-Sanseguno; 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 (1), SCOPUS (1), Google Scholar (1), ResearchGate (1)
- 4 **Scientific paper.** (1/2) J. García-Sanseguno; B.G. 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 (1), Google Scholar (2), ResearchGate (2)
- 5 **Scientific paper.** N. Heredia; F. Martín-González; P. Farias; et al; A.G. Flórez-Rodríguez; (4/9) J. García-Sanseguno. 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 (4), Google Scholar (5), ResearchGate (8)
- 6 **Scientific paper.** S. Serra-Varela; N. Heredia; R. Giacosa; (4/5) J. García-Sanseguno; 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 (11), SCOPUS (10), Google Scholar (14), ResearchGate (17)
- 7 **Scientific paper.** J. Lloret; J. López-Gómez; N. Heredia; et al; M. Lago; (9/15) J. García-Sanseguno. 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 (9), SCOPUS (10), Google Scholar (16), ResearchGate (17)
- 8 **Scientific paper.** J. López-Gómez; F. Martín-González; N. Heredia; et al; G. Gand; (11/17) J. García-Sanseguno. 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 (35), Google Scholar (43), ResearchGate (48)
- 9 **Scientific paper.** D. Ballesteros; S. Giralt; (3/4) J. García-Sanseguno; 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 (26), SCOPUS (28), Google Scholar (37), ResearchGate (33)
- 10 **Scientific paper.** M.A. Lopez-Sanchez; (2/3) J. García-Sanseguno; 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 (14), SCOPUS (15), Google Scholar (21), ResearchGate (23)

- 11 **Scientific paper.** P. Clariana; P. Valverde-Vaquero; A. Rubio-Ordóñez; A. Beranoaguirre; (5/5) J. García-Sanseguno. 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 (6), SCOPUS (12), Google Scholar (14), ResearchGate (13)
- 12 **Scientific paper.** N. Heredia; (2/12) J. García-Sanseguno; 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 (17), SCOPUS (18), Google Scholar (22), ResearchGate (23)
- 13 **Scientific paper.** D. Ballesteros; M. Jiménez-Sánchez; S. Giralt; I. DeFelipe; (5/5) J. García-Sanseguno. 2017. Glacial origin for cave rhythmite during MIS 5d-c in a glaciokarst landscape, Picos de Europa (Spain). *Geomorphology.* 286, pp.68-77. WOS (10), SCOPUS (13), Google Scholar (20), ResearchGate (16)
- 14 **Scientific paper.** N. Heredia; (2/26) J. García-Sanseguno; 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 (29), Google Scholar (38), ResearchGate (29)
- 15 **Scientific paper.** D. Ballesteros; M. Jiménez-Sánchez; S. Giralt; (4/5) J. García-Sanseguno; 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 (27), SCOPUS (32), Google Scholar (44), ResearchGate (36)
- 16 **Scientific paper.** L. Giambiagi; J. Mescua; N. Heredia; et al; A. Lossada; (5/11) J. García Sanseguno. 2014. Reactivation of Paleozoic structures during Cenozoic deformation in the Cordón del Plata and Southern Precordillera ranges (Mendoza, Argentina). *Journal of Iberian Geology.* 40-2, pp.309-320. WOS (29), SCOPUS (28), Google Scholar (50), ResearchGate (39)
- 17 **Scientific paper.** D. Ballesteros; M. Jiménez-Sánchez; (3/4) J. García-Sanseguno; M. Borreguero. 2014. SpeleoDisc: A 3-D quantitative approach to define the structural control of endokarst: An application to deep cave systems from the Picos de Europa, Spain. *Geomorphology.* 216, pp.141-156. WOS (11), SCOPUS (12), Google Scholar (16), ResearchGate (12)
- 18 **Scientific paper.** J.L. Alonso; J. Gallastegui; L.R. Rodríguez Fernández; (4/4) J. García-Sanseguno. 2014. Stratigraphy and structure of the Punta Negra Anticline. Implications on the structural evolution of the Argentine Precordillera. *Journal of Iberian Geology.* 40-2, pp.283-292. WOS (8), SCOPUS (7), Google Scholar (9), ResearchGate (11)
- 19 **Scientific paper.** (1/3) J. García-Sanseguno; A. Martin-Izard; J. Gavalda. 2014. Structural control and geological significance of the Zn-Pb ores formed in the Benasque Pass area (Central Pyrenees) during the post-late Ordovician extensional event of the Gondwana margin. *Ore Geology Reviews.* 56, pp.516-527. WOS (24), SCOPUS (26), Google Scholar (29), ResearchGate (32)
- 20 **Scientific paper.** (1/7) J. García-Sanseguno; P. Farias; N. Heredia; G. Gallastegui; R. Charrier; A. Rubio-Ordóñez; A. Cuesta. 2014. Structure of the Andean Palaeozoic basement in the Chilean coast at 31° 30' S: Geodynamic evolution of a subduction margin. *Journal of Iberian Geology.* 40-2, pp.293-308. WOS (23), SCOPUS (22), Google Scholar (30), ResearchGate (35)
- 21 **Scientific paper.** (1/4) J. García-Sanseguno; P. Farias; A. Rubio-Ordóñez; N. Heredia. 2014. The Palaeozoic basement of the Andean Frontal Cordillera at 34° S (Cordón del Carrizalito, Mendoza Province, Argentina): Geotectonic implications. *Journal of Iberian Geology.* 40-2, pp.321-330. WOS (12), SCOPUS (12), Google Scholar (16), ResearchGate (17)

- 22 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 Mapping of Our World and Others. Geological Society, Special Publication. 541. Google Scholar (2), ResearchGate (1)
- 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 (31), Google Scholar (40), ResearchGate (32)
- 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 (38), Google Scholar (44), ResearchGate (46)

C.2. Conferences and meetings

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 Project.** CGL2015-70970-P, Caracterización y modelización de los grandes sistemas de fallas alpinas del Macizo Varisco del NO peninsular: fallas de largo recorrido temporal y actividad reciente. Ministerio de Economía y Competitividad. Fidel Martín González. (Universidad Rey Juan Carlos). 01/01/2016-30/09/2019. 50.413 €.
- 5 Project.** CGL2014-54582- REDC, Red de Excelencia Consolider denominada “Red TOPOIBERIA-IberArray: Estudios integrados de Geodinámica y Estructura de la Placa Ibérica”. CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS. Javier Álvarez Pulgar. (Universidad de Oviedo). 01/01/2014-31/12/2016. 39.000 €.