



Galo Romero García

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ABOUT ME

My academic and professional training has enabled me to develop advanced technical skills and a rigorous analytical approach, which has been invaluable in my professional life. I have actively participated in various R&D projects, collaborating closely with high-level research teams. I have also had the privilege of teaching a university course in statistical programming for three years and serving as coordinator for several other university-level subjects. These experiences have deepened my knowledge and honed my ability to communicate complex ideas clearly and effectively.

WORK EXPERIENCE

 **MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES** – SEVILLA, SPAIN

Business or Sector Professional, scientific and technical activities | **Address** Calle Doña María de Padilla, 41004, Sevilla, Spain |

Website <https://www.ciencia.gob.es/>

DATA SCIENTIST – 01/12/2021 – 04/2025

- PostgreSQL relational database development
- Creation and implementation of web mapping applications with Leaflet
- RDF and INSPIRE metadata generation and management
- Design and maintenance of online databases using Bootstrap Table, HTML5 and CSS3
- Perform statistical and spatial analysis using the R programming language
- Data management and analysis with Pandas and Numpy in Python
- Spatial data management with GeoPandas in Python
- Data visualisation with Matplotlib and Seaborn in Python
- Teaching Computer Applications and Statistics at the Universidad de Sevilla

 **EUROPEAN COMMISSION** – SEVILLA, SPAIN

Business or Sector Professional, scientific and technical activities | **Address** Calle Doña María de Padilla, 41004, Sevilla, Spain |

Website https://commission.europa.eu/index_en

RESEARCH TECHNICIAN – 15/11/2020 – 29/11/2021

Systematisation of the data collected in the project HAR2017-83474-P (Networks and Rare Rocks in the Iberian Peninsula and the Mediterranean (VI-II millennium BC)) and their integration with those already obtained in HAR2012-34620 (New Technologies Applied to the Study of Mobility and Exchange: Green Beads and Ceramics Decorated with White Fillings from VI to II Millennium BC in the Iberian Peninsula from a Multidisciplinary Perspective) into a Spatial Data Infrastructure (SDI) and Geoportal according to the INSPIRE guidelines of the European Union. n.e. The aim of the project is to transform the spatial data of the Iberian Peninsula (from a multidisciplinary perspective) into a Spatial Data Infrastructure (SDI) and a Geoportal according to the European Union's INSPIRE interoperability guidelines, which unify the criteria for the processing, storage and open distribution of spatial information.

The development of the SDI includes the following activities:

- Design of the geoportal according to the established architecture design.
- Database processing and modelling (data cleansing and organisation).
- Design and integration of the database model. Once the data have been processed and standardised, the data model that will support and feed the geoportal will be developed.
- Design and implementation of a relational database model to allow us to consume complex and massive data.
- Integration of alphanumeric and geographic data in PostgreSQL / PostGIS databases and processing of spatial information using Geographic Information Systems.
- Design and development of the geoportal and the various internal tools that will allow the data to be consumed and visualised.
- Testing, real test of the overall functioning.

-Data organisation, analysis, processing and normalisation tasks.
-Implementation of routines and automation of network analysis using the SoNIA library of the free software R and Shiny applications for network analysis development and processing.

 **EVENOR-TECH** – SEVILLA, SPAIN

Business or Sector Professional, scientific and technical activities | **Department** GIS |

Address AVENIDA SAN FRANCISCO JAVIER, 41018, Sevilla, Spain | **Website** <https://evenor-tech.com/>

GIS AND DATABASE TECHNICIAN – 14/03/2020 – 04/06/2020

Performed statistical analysis using SPSS and R
Preparation and writing of scientific and technical reports
Spatial analysis and mapping using ArcGIS and QGIS
Database management and maintenance, ensuring data accuracy and accessibility
Support project development by researching and analysing bibliographic references

 **GEOGRAPHICA - CARTO** – SEVILLA, SPAIN

Business or Sector Professional, scientific and technical activities | **Department** GIS and web development |

Address Calle Ebro , 41012, Sevilla, Spain | **Website** <https://carto.com/>

GIS AND DATABASE TECHNICIAN – 14/03/2019 – 19/06/2019

Edited, corrected, and updated files in various formats using GIS software
Spatial database management and analysis using SQL for geospatial data extraction and processing.

 **MINISTERIO DE EDUCACIÓN Y FORMACIÓN PROFESIONAL** – SEVILLA, SPAIN

Business or Sector Professional, scientific and technical activities | **Address** Calle Doña María de Padilla, 41004, Sevilla, Spain |

Website <https://www.educacionfpydeportes.gob.es/ministerio.html>

GIS AND DATABASE TECHNICIAN – 12/10/2019 – 12/06/2020

Digitisation of protected natural areas in Andalusia (Spain) using GIS software

● **EDUCATION AND TRAINING**

06/2022 – 06/2022 Spain

POSTGRADUATE COURSE IN GEOGRAPHIC INFORMATION TECHNOLOGY, ORGANISED BY CSIC (CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS) Centro Tecnológico de Supercomputación de Galicia (CESGA)

Website <https://www.cesga.es/en/home-2/> | **Field of study** Software and applications development and analysis

03/2022 – 03/2025 Sevilla, Spain

PHD CANDIDATE IN HISTORY Escuela Internacional de Doctorado Universidad de Sevilla (EIDUS)

Management of archaeological data relating to recent European prehistory, with the aim of creating a Spatial Data Infrastructure that will make available to the user community the data derived from various research projects.

- <https://pepadb.us.es>

Address Paseo de las delicias, 41013 , Sevilla, Spain |

Website <https://doctorado.us.es/estudios/programas-de-doctorado/historia> |

Field of study Information and Communication Technologies

06/2021 – 12/2021 Sevilla, Spain

INTEGRATED SKILLS IN ENGLISH III - C1 (CEFR) Universidad de Sevilla

10/2019 – 07/2020 Sevilla, Spain

MASTER'S DEGREE IN TERRITORIAL MANAGEMENT Universidad de Sevilla

Specialisation in spatial and non-spatial databases and Geographic Information Systems.

Address 41004, Sevilla, Spain | **Website** <https://master.us.es/mastergeografia/>

FIRST CERTIFICATE IN ENGLISH - B2 (CEFR) University of Cambridge

Website <https://www.cambridgeenglish.org/exams-and-tests/first/>

10/2017 – 04/2018

SPECIALIST COURSE IN TECHNICAL APPLICATIONS OF GIS IN PROJECT MANAGEMENT AND RESEARCH

<https://cfp.us.es/>

Field of study Information and Communication Technologies

09/2015 – 07/2019 Sevilla, Spain

BACHELOR'S DEGREE IN GEOGRAPHY AND TERRITORIAL MANAGEMENT Universidad de Sevilla

Specialisation in spatial and non-spatial databases and Geographic Information Systems.

Address Calle Doña María de Padilla, 41004, Sevilla, Spain |

Website <https://www.us.es/estudiar/que-estudiar/oferta-de-grados/grado-en-geografia-y-gestion-del-territorio>

HONOURS AND AWARDS

01/2021

Extraordinary master's degree award – Universidad de Sevilla

SKILLS

Data Gathering / Data Processing / Data Visualization / Data Analysis | Geographical Informational Systems (GIS) | HTML5 CSS Bootstrap | Python | R (programming language) | PostgreSQL | SQL | Semantic Web Technologies | Web Technologies | Spatial Analysis | Bootstrap Table | Git and GitHub | Visual Studio Code | Web mapping | LeafletJS | GIS: Esri ArcMap, ArcGIS Pro, ArcGIS Server, QGIS and Geoserver | Data Visualization Tableau

LANGUAGE SKILLS

Mother tongue(s): **SPANISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

RECOMMENDATIONS

Geographica S.L. GIS technician

-Processing, correction and updating of files in different formats using GIS software.
-Creation and processing of spatial databases using SQL.

Email jorge.chacon@geographica.com

Evenor-Tech GIS technician

- Search and analysis of bibliographic references.
- Database management.
- Analysis of massive data in GIS-web environment and statistical tools.
- Writing of scientific-technical reports.
- Use of GIS tools (ArcGIS 10.4 and QGIS 3.14).

- Handling of statistical tools (SPSS 18.0 and R Software 2020).
- Ability to work in a team
- Ability to solve problems

Email fj.blanco@evenor-tech.com

● CONFERENCES AND SEMINARS

01/09/2023 – 03/09/2023 Belfast

Reuse or Nothing! the Materialisation of R Principle Through the Implementation of a Spatial Data Infrastructure: Pepadb.

European Association of Archaeologists

Link <https://www.e-a-a.org/EAA2023/Programme.aspx?WebsiteKey=4c013ea5-de96-432a-85f7-b1800c2303bf&hkey=f73d6cf5-b37e-4836-ad06-2ecea6b58060&Program=3#Program>

01/04/2023 – 03/04/2023 Amsterdam

The reusability of geospatial data in archaeology using web applications: PEPAdb.

Computer Applications and Quantitative Methods in Archaeology

Link <https://zenodo.org/records/7930992>

03/04/2023 – 06/04/2023 Amsterdam

Implementantion of an archaeochemical tool for prehistoric data analysis and predictive modelling

Computer Applications and Quantitative Methods in Archaeology

Link <https://zenodo.org/records/7930992>

01/09/2022 – 03/09/2022 Budapest

Pepadb: Putting the FAIR Principles into Practice

European Association of Archaeologists

Link <https://www.e-a-a.org/EAA2022/Programme.aspx?WebsiteKey=13a70299-9cf2-4cc8-98c2-2862c5c6a8dd&hkey=01dc47f6-68bd-4d87-bcdf-183a7eb484d2&Program=3#Program>

● PROJECTS

01/03/2023 – 31/08/2024

Âmbar local e redes de troca na pré-história da Península Ibérica: caracterização das fontes portuguesas como um caso de estudo global (2022.09207.PTDC)

Link <https://sciproj.ptcris.pt/175913PRJ>

01/09/2022 – CURRENT

Arqueología de las falsificaciones y la percepción: adornos y autopercepción en el mediterráneo occidental - PID2021-124421NB-I00

Link <https://prisma.us.es/financiacion/15849>

05/10/2021 – 31/03/2023

Investigación y desarrollo de nuevas tecnologías para el discurso del poder: imitando adornos de ámbar en la prehistoria reciente de Iberia - P20_01080

Link https://investigacion.us.es/sisius/sis_proyecto.php?ct=1&cs=&idproy=33567

01/01/2018 – 31/12/2021

Redes y Rocas Raras en la Península Ibérica y el Mediterráneo (VI-II Milenio AC) - HAR2017-83474-P

Link https://investigacion.us.es/sisius/sis_proyecto.php?idproy=28512

- **DRIVING LICENCE**

Driving Licence: B

- **SCIENTIFIC PAPERS**

07/2024

A supervised multiclass framework for mineral classification of Iberian beads

We present a supervised multiclass framework for the mineral classification of prehistoric beads that can be used to infer mineral species from a matrix of compositional data. We trained and compared some of the most commonly used algorithms for classification tasks in a workflow that is reproducible and reusable without the need to install any piece of software. As a proof-of-concept, we chose the best performer to carry out a real use case with two sample sets from different sites.

Link <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0302563>

06/2024

Amber provenance as a Chrono-Cultural Proxy: Insights from FTIR analysis in the Iberian Peninsula

This study introduces new amber finds, presents fresh FTIR data on archaeological amber ornaments, and incorporates minor updates and bug fixes to the general catalog. It is the outcome of a thorough bibliographic review and on-site analysis and examination of the beads.

Link <https://doi.org/10.1016/j.jasrep.2024.104647>

06/2024

Crafting illusions: Human-made composite coating used to simulate amber beads in prehistoric Iberia

This paper aims to construct an empirically grounded narrative elucidating the development and function of resin-coated bead technology. Our methodology includes a comprehensive quantitative analysis of the coating and beads, an exploration of the interplay between technical choices and situational factors, and an investigation into whether the simulation of sensory performance characteristics played a pivotal role in the concept and design of resin-coated beads. Additionally, we synthesize data to unveil broader patterns related to the crafting and utilization of resin-coated and amber beads across time and space.

Link <https://doi.org/10.1016/j.jas.2024.106011>

01/2024

Unlocking archaeological data online via the PEPAdb (Prehistoric Europe's Personal Adornment Database) initiative for Open Science

PEPAdb (Prehistoric Europe's Personal Adornment Database) is a long-term, open-ended project that aims to improve access to archaeological data online. Its website (<https://pepadb.us.es>) publishes and analyses datasets about prehistoric personal adornment, drawing on the results of various research projects and bibliographic references.

Link <https://doi.org/10.15184/aqy.2024.2>