



Galo Romero García

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ABOUT MYSELF

My academic background, combined with five years of university experience, has allowed me to develop advanced technical skills and a rigorous analytical approach. I have been actively involved in several R&D projects, which has allowed me to work closely with high level research teams. I have also had the privilege of teaching a university course in statistical programming for 3 years, as well as being the coordinator responsible for several university level courses. This experience has not only deepened my knowledge, but has also 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 |

Department Prehistoria y Arqueología (Universidad de Sevilla) | **Address** Calle Doña María de Padilla, 41004, Sevilla, Spain |

Email geografiaehistoria@us.es | **Website** <https://www.ciencia.gob.es/>

DATA SCIENTIST – 01/12/2021 – 03/2025

- 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 in Python
- Spatial data management with GeoPandas in Python
- Data visualisation with Matplotlib in Python
- Lecturer at the University of Seville in Computer Applications and Statistics

EUROPEAN COMMISSION – SEVILLA, SPAIN

Business or Sector Professional, scientific and technical activities |

Department Prehistoria y Arqueología (Universidad de Sevilla) | **Address** Calle Doña María de Padilla, 41004, Sevilla, Spain |

Email geografiaehistoria@us.es

Link 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 Shinny 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 |

Department Physical Geography and Regional Geographical Analysis. |

Address Calle Doña María de Padilla, 41004, Sevilla, Spain | **Email** geofiagr@us.es |

Website <https://www.us.es/centros/departamentos/geografia-fisica-y-analisis-geografico-regional>

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 ON GEOGRAPHIC INFORMATION TECHNOLOGIES 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 (ICTs)

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: INTERVENTION STRATEGIES AND TECHNIQUES

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 (ICTs)

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

Master's Degree Extraordinary Award – Universidad de Sevilla

● **SKILLS**

Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation | Geographical Informational Systems (GIS) | R Programming | PostgreSQL | Semantic Web | Version Control System (Git) | Web Technologies Fundamentals - HTML, CSS | Turtle (Terse RDF Triple Language) | Ontology (OWL) | python | Bootstrap CSS | Data Visualization Tableau (Good Standing)

● **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 & 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

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>