



## Galo Romero García

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**LinkedIn:** <https://www.linkedin.com/in/galeromerogarcia/> | **Address:** Sevilla, Spain (Home)

### 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

#### IDENCITY – SPAIN

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

**Website** <https://www.idencityconsulting.com/en/>

#### **GIS DATA ANALYST** – 08/2025 – CURRENT

Development of geospatial datasets and accessibility isochrones at multiple spatial scales, with reproducible Python workflows and validated outputs to support spatial planning and decision-making.

#### MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES – SPAIN

**Business or Sector** Professional, scientific and technical activities | **Website** <https://www.ciencia.gob.es/>

#### **DATA SCIENTIST** – 12/2021 – 04/2025

- Development of relational databases using PostgreSQL
- Creation and implementation of web mapping applications with Leaflet
- Generation and management of RDF and INSPIRE-compliant metadata
- Design and maintenance of online databases using Bootstrap Table, HTML5, and CSS3
- Statistical and spatial analysis using the R programming language
- Data management and analysis with Pandas and NumPy in Python
- Spatial data processing with GeoPandas in Python
- Data visualisation using Matplotlib and Seaborn in Python
- Large-scale data processing in Snowflake using advanced SQL, with a focus on cleaning, transforming, and efficiently modelling datasets
- University teaching experience in Computer Applications and Statistics

#### EUROPEAN COMMISSION – SPAIN

**Business or Sector** Professional, scientific and technical activities | **Website** [https://commission.europa.eu/index\\_en](https://commission.europa.eu/index_en)

#### **RESEARCH TECHNICIAN** – 10/2020 – 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.

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 a Spatial Data Infrastructure (SDI)

- Database processing and modelling, including data cleansing and organisation
- Design and integration of the database model: After processing and standardising the data, developed the data model that supports and feeds the geoportal
- Design and implementation of a relational database model to handle complex and large-scale datasets
- Integration of alphanumeric and geographic data in PostgreSQL/PostGIS databases, and processing of spatial information using Geographic Information Systems (GIS)
- Design and development of the geoportal and various internal tools for data consumption and visualisation
- Testing and validation of the overall system functionality
- Data organisation, analysis, processing, and normalisation
- Implementation of routines and automation of network analysis using the SoNIA library in R, and the development of Shiny applications for network analysis, geovisualisation tools (geo-viewers), and database interaction

 **EVENOR-TECH** – SPAIN

**Business or Sector** Professional, scientific and technical activities | **Department** GIS | **Website** <https://evenor-tech.com/>

### **GIS AND DATABASE TECHNICIAN** – 01/2020 – 06/2020

Participation in the CONSOLE project (Contract Solutions for Effective and Lasting Delivery of Agri-Environmental-Climate Public Goods by EU Agriculture and Forestry).

- Performed statistical analyses using SPSS and R
- Prepared and wrote scientific and technical reports
- Conducted spatial analysis and mapping using ArcGIS and QGIS
- Managed and maintained databases, ensuring data accuracy and accessibility
- Supported project development through the research and analysis of bibliographic references

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

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

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

### **GIS AND DATABASE TECHNICIAN** – 09/2019 – 06/2020

- Digitised and mapped protected natural areas in Andalusia (Spain) using GIS platforms such as QGIS and ArcGIS

 **GEOGRAPHICA - CARTO** – SPAIN

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

**Website** <https://carto.com/>

### **GIS AND DATABASE TECHNICIAN** – 03/2019 – 07/2019

Participation in the URBAN AUDIT project:

- Edited, corrected, and updated spatial data files in various formats using GIS software
- Managed and analysed spatial databases using SQL for geospatial data extraction and processing

## ● **EDUCATION AND TRAINING**

06/2022 – 07/2022 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)

Development of a Spatial Data Infrastructure (SDI) for the management and dissemination of archaeological data on European prehistory, focusing on the integration and harmonisation of heterogeneous datasets from multiple research projects to enhance accessibility, interoperability, and reuse within the academic and professional community.

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

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

2022

**INTEGRATED SKILLS IN ENGLISH III - C1 (CEFR)** Trinity College London

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**Website** <https://www.trinitycollege.com/>

10/2019 – 07/2020 Sevilla, Spain

**MASTER'S DEGREE IN TERRITORIAL MANAGEMENT** Universidad de Sevilla

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The focus is on specialisation in spatial and non-spatial databases, as well as Geographic Information Systems.

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

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

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**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/>

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09/2015 – 07/2019 Sevilla, Spain

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

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**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**

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01/2021

**Extraordinary master's degree award – Universidad de Sevilla**

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## ● **SKILLS**

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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 | Snowflake | AI/Machine Learning

## ● **LANGUAGE SKILLS**

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Mother tongue(s): **SPANISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C1	C1	C1	C1

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

## ● **RECOMMENDATIONS**

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**Evenor-Tech** GIS technician

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**Email** [fj.blanco@evenor-tech.com](mailto:fj.blanco@evenor-tech.com)

**Link** [https://drive.google.com/file/d/1UCyme17YBFY\\_2PdnyXC7xTAE\\_OMlsu11/view?usp=drive\\_link](https://drive.google.com/file/d/1UCyme17YBFY_2PdnyXC7xTAE_OMlsu11/view?usp=drive_link)

**Geographica S.L.** GIS technician

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Email [jorge.chacon@geographica.com](mailto:jorge.chacon@geographica.com)

Link [https://drive.google.com/file/d/1YGvUEsbpiXfVIEz0HV5eKo0QNqYYFhps/view?usp=drive\\_link](https://drive.google.com/file/d/1YGvUEsbpiXfVIEz0HV5eKo0QNqYYFhps/view?usp=drive_link)

## ● CONFERENCES AND SEMINARS

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01/09/2023 – 03/09/2023 Belfast

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

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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.**

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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**

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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**

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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

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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)**

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

01/09/2022 – 04/2025

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

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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**

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Link [https://investigacion.us.es/sisius/sis\\_proyecto.php?ct=1&cs=&idproy=33567](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**

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Link [https://investigacion.us.es/sisius/sis\\_proyecto.php?idproy=28512](https://investigacion.us.es/sisius/sis_proyecto.php?idproy=28512)

01/2020 – 06/2020

**CONSOLE**

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Machine learning models were implemented to estimate organic carbon levels in olive crops.

Link <https://cordis.europa.eu/project/id/817949/es>

03/2019 – 07/2019

## Urban Audit

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Improved the quality of data to support the implementation of performance indicators in European cities.

Link [https://ec.europa.eu/regional\\_policy/policy/themes/urban-development/audit\\_en](https://ec.europa.eu/regional_policy/policy/themes/urban-development/audit_en)

## ● DRIVING LICENCE

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Driving Licence: B

## ● SCIENTIFIC PAPERS

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07/2024

### A supervised multiclass framework for mineral classification of Iberian beads

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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

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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

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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

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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>