Juan F. Palomeque-Gonzalez

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Education

MSc Advanced Computing – University of the West of Scotland, 2020–2023
Distinction; awarded the UWS Court Medal for academic performance
Focus: IoT, Big Data, e-Health, AI, Data Mining

BSc (Hons) Data Science – The Open University, 2020–2023
Upper Second-class Honours
Focus: Machine Learning, Data Modelling, Statistical & Computational Analysis

BSc Archaeology – Universidad Complutense de Madrid, 2010–2014
Dissertation: Distinction (10/10) in Qualitative Archaeology (Statistical Analysis)

Publications

1. Palomeque-Gonzalez, J. (2025). A Modular, Low-Cost IoT System for Environmental and Behavioural Monitoring in Cultural Heritage Sites. arXiv preprint arXiv:2508.00849 [cs.CY].
2. Domínguez-Rodrigo, Manuel and Vegara-Riquelme, Marina and Palomeque-González, Juan and Jiménez-García, Blanca and Cifuentes-Alcobendas, Gabriel and Pizarro-Monzo, Marcos and Organista, Elia and Baquedano, Enrique (2025). Testing the reliability of geometric morphometric and computer vision methods to identify carnivore agency using Bi-Dimensional information. Quaternary Science Advances.
3. Palomeque-Gonzalez, Juan (2025). A Modular, Low-Cost IoT System for Environmental and Behavioural Monitoring in Cultural Heritage Sites.
4. Maté-González, M. Á. and Yravedra, J. and Martín-Perea, D. M. and Palomeque-González, J. and San-Juan-Blazquez, M. and Estaca-Gómez, V. and Uribelarrea, D. and Álvarez-Alonso, D. and Cuartero, F. and González-Aguilera, D. and Domínguez-Rodrigo, M. (2017). Flint and Quartzite: Distinguishing Raw Material Through Bone Cut Marks. Archaeometry.
5. Maté-González, Miguel Ángel and Palomeque-González, Juan Francisco and Yravedra, José and González-Aguilera, Diego and Domínguez-Rodrigo, Manuel (2016). Micro-photogrammetric and morphometric differentiation of cut marks on bones using metal knives, quartzite, and flint flakes. Archaeological and Anthropological Sciences.
6. Arriaza, Mari Carmen and Yravedra, José and Domínguez-Rodrigo, Manuel and Mate-González, Miguel Ángel and García Vargas, Elena and Palomeque-González, Juan Francisco and Aramendi, Julia and González-Aguilera, Diego and Baquedano, Enrique (2017). On applications of micro-photogrammetry and geometric morphometrics to

studies of tooth mark morphology: The modern Olduvai Carnivore Site (Tanzania). Palaeogeography, Palaeoclimatology, Palaeoecology.
7. Yravedra, José and Diez-Martín, Fernando and Egeland, Charles P. and Maté-González, Miguel Ángel and Palomeque-González, Juan Francisco and Arriaza, Mari Carmen and Aramendi, Julia and García Vargas, Elena and Estaca-Gómez, Verónica and Sánchez, Policarpo and Fraile, Cristina and Duque, Javier and de Francisco Rodríguez, Sara and González-Aguilera, Diego and Uribelarrea, David and Mabulla, Aundax and Baquedano, Enrique and Domínguez-Rodrigo, Manuel (2017). FLK West (Lower Bed II, Olduvai Gorge, Tanzania): a new early Acheulean site with evidence for human exploitation of fauna. Boreas.
8. Yravedra, José and Maté-González, Miguel Ángel and Palomeque-González, Juan Francisco and Aramendi, Julia and Estaca-Gómez, Verónica and San Juan Blazquez, María and García Vargas, Elena and Organista, Elia and González-Aguilera, Diego and Arriaza, Mari Carmen and Cobo-Sánchez, Lucía and Gidna, Agness and Uribelarrea Del Val, David and Baquedano, Enrique and Mabulla, Audax and Domínguez-Rodrigo, Manuel (2017). A new approach to raw material use in the exploitation of animal carcasses at BK Upper Bed II, Olduvai Gorge, Tanzania): a micro-photogrammetric and geometric morphometric analysis of fossil cut marks. Boreas.
9. Yravedra, José and García-Vargas, Elena and Maté-González, Miguel Ángel and Aramendi, Julia and Palomeque-González, Juan Francisco and Vallés-Iriso, Javier and Matesanz-Vicente, Jorge and González-Aguilera, Diego and Domínguez-Rodrigo, Manuel (2017). The use of Micro-Photogrammetry and Geometric Morphometrics for identifying carnivore agency in bone assemblages. Journal of Archaeological Science: Reports.
10. Palomeque-González, Juan Francisco and Maté-González, Miguel Ángel and Yravedra, José and Juan-Blazquez, María San and Vargas, Elena García and Martín-Perea, David Manuel and Estaca-Gómez, Verónica and González-Aguilera, Diego and Domínguez-Rodrigo, Manuel (2017). Pandora: A new morphometric and statistical software for analysing and distinguishing cut marks on bones. Journal of Archaeological Science: Reports.
11. Maté González, Miguel Ángel and Yravedra, José and González-Aguilera, Diego and Palomeque-González, Juan Francisco and Domínguez-Rodrigo, Manuel (2015). Micro-photogrammetric characterization of cut marks on bones. Journal of Archaeological Science.

Conference Presentations & Talks

- Python Glasgow Meetup – July 2025. Talk: Diggin with Python: Making Archaeology more powerful one script at time
- Workshop on Machine Learning in Archaeology – ESA PHILAB, Rome, 2019. Talk: Applications of Machine Learning in Archaeological Research.

Research Interests

• Archaeological Data Science & Digital Heritage
• Statistical & Geometric Morphometrics in Archaeology
• Machine Learning Applications in Archaeological Datasets
• IoT and Computational Methods for Heritage Monitoring
• Database Design for Archaeological Repositories

Research Experience

Field Archaeologist / Supervisor – GUARD Archaeology, Glasgow (2019–2020)
- Supervised excavation teams across Scotland
- Produced grey literature reports, systematic data recording

Site Supervisor / Archaeologist – Archaeological Solutions, Suffolk (2017–2018)
- Excavation management, data collection, reporting

Independent Research
- Developed data pipelines for archaeological datasets
- Applied multivariate analysis and machine learning to morphometric data

Other relevant professional experience

Senior Data Analyst – Payroc (Since 2022): specialising in SQL-based data extraction, data pipelines, and reproducible analytical workflows for large financial datasets.

Data Analyst – Leather Working group (2022): managing data quality, developing analytical workflows, and producing statistical reports using SQL, Python, and Power BI.

Skills

• Programming: Python, R, SQL
• Statistical Analysis & Machine Learning: Univariate, multivariate, predictive models
• GIS & Spatial Analysis
• Database Management: SQL Server, Snowflake, DBT, Looker
• Scientific Writing & Reporting (journals, conferences, grey literature)
• Languages: Spanish (native), English (fluent)

Awards

• UWS Court Medal – Highest academic performance distinction, MSc Advanced Computing