

Carolina Mallol

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Departamento de Geografía e Historia, Universidad de La Laguna, Santa Cruz de Tenerife, Spain, C. Prof. José Luis Moreno Becerra s/n, 38200 La Laguna, Canary Islands, Spain

ICArEHB - Interdisciplinary Center for Archaeology and the Evolution of Human Behaviour Universidade do Algarve, Campus de Gambelas, Edifício 1, 8005-139, Faro, Portugal

Education

PhD 2004 Anthropology, Harvard University, USA

MA 2001 Anthropology, Harvard University, USA

BA 1996 Geography and History, Universitat Rovira I Virgili, Spain (and BA studies in other universities:

1992-1994 History and Geography, Universidad de Castilla-La Mancha, Spain; 1991-1992

Anthropology, Universidad de Los Andes, Colombia)

Academic Experience

2019-present Associate Professor at Universidad de La Laguna, Spain

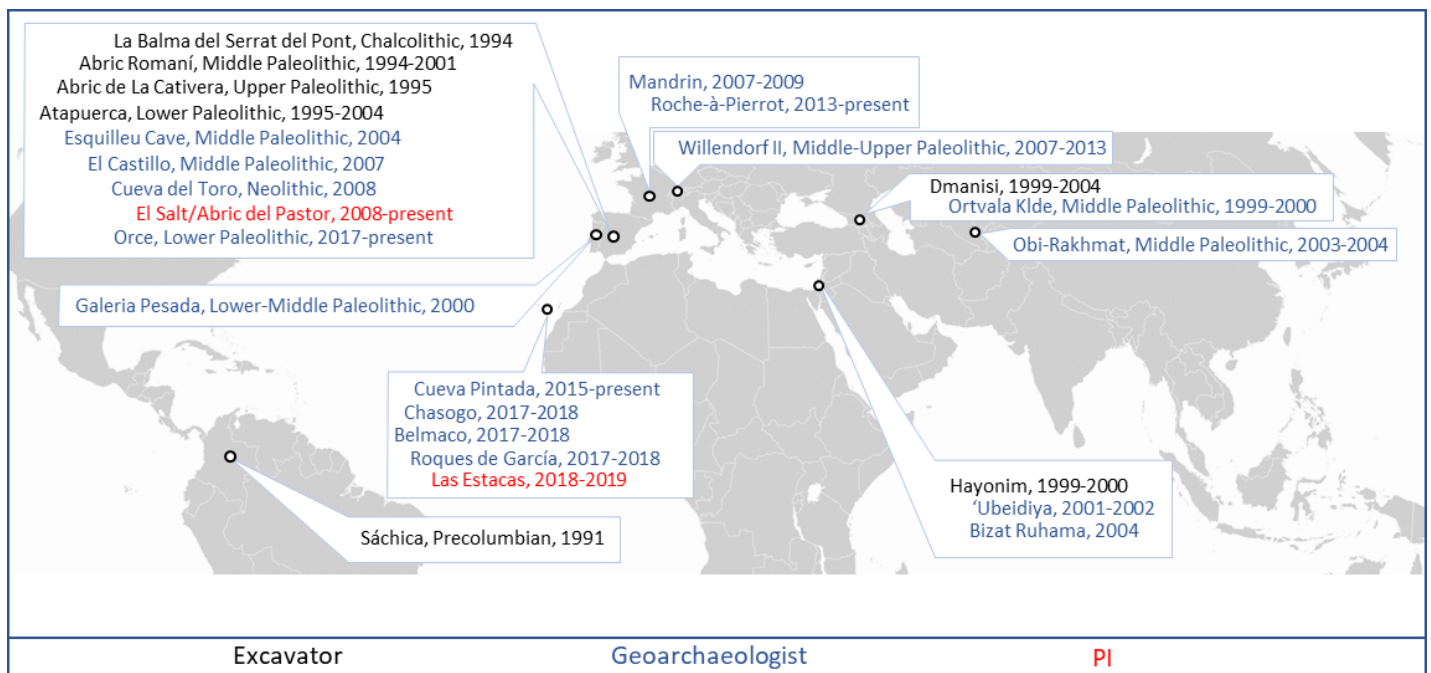
2013-2018 Ramón y Cajal Postdoc at Universidad de La Laguna, Spain

2008-2012 Juan de La Cierva Postdoc at Universidad de La Laguna, Spain

2005-2007 Marie Curie EIF Postdoc at MMSH-CNRS, France

2004-2005 ASPR Postdoc, Harvard University, USA

Field Experience



Grants (PI or co-PI)

- 2020-2023 Climate-human interactions in central Mediterranean Iberia during MIS 4 (IBEMIS4). Ministerio de Ciencia e Innovacion, 70.000 €
- 2020-2021 Sistema de etiquetado de imágenes basado en una red neuronal para la descripción micromorfológica en arqueología (EIRA). Universidad de La Laguna, 8.300 €
- 2019-2021 Contextos paleoambientales aborígenes y su gestión. Algunos ejemplos insulares. Universidad de La Laguna, 54.000 €
- 2018-2021 Fire among Anatomically Modern Humans and Neandertals as revealed from Archaeological Microstratigraphic Evidence (FLAME) Fundação para a Ciência e Tecnologia, Portugal, 239.870 €.
- 2018-2019 Geoarqueología de alta resolución en la cueva de Las Estacas, Buenavista del Norte Bertila Galván Santos. Universidad de La Laguna, 8.850 €.
- 2015-2020 ERC-Consolidator-648871-PALEOCHAR. European Research Council, 1.600.000 €.
- 2015-2016 Neandertal Fire Technology. Leakey Foundation, 20.659,37 €.
- 2013-2014 Neandertal Fire Technology. Leakey Foundation, 13.208,52 €.
- 2013-2016 La desaparición de los grupos neandertales en la región central del mediterráneo ibérico. Una propuesta metodológica de aproximación al proceso histórico y marco paleoambiental. Ministerio de Ciencia e Innovacion, 35.000 €.

Students

- Laura H. Tomé, MA 2020, PhD 2021-present
- Enrique Fernández-Palacios, MS 2019-20, PhD 2021-present
- Margarita Jambrina, PhD 2018-present
- Antonio Herrera, PhD 2018-present
- Rory Connolly, PhD 2015-present
- Lucia Leierer, PhD 2015-present
- Natalia Égüez, PhD 2015-2018
- Ainara Sistiaga, PhD 2013-2015
- Diana Gómez, PhD 2008-2011
- Dorcas Vannieuwenhuyse, MA 2008

Other Professional Activities and Awards

- Reviewer for *Geoarchaeology*, *Journal of Archaeological Science*, *Quaternary International*, *Journal of Human Evolution*, *Antiquity*, *AAS*, *NERC*, *SSHRC*, “*La Caixa*”, *Agència de Gestió d'Ajuts Universitaris i de Recerca*, *Ministerio de Ciencia e Innovación*
- Associate Editor for *Geoarchaeology* and *Scientia Insularum*
- Member of the Instituto de Bio-orgánica Antonio González Executive Committee, the UISPP Pyroarchaeology Commission, the Society for American Archaeology and Comité de Ponencias Técnicas del Consejo de Patrimonio Histórico de Canarias
- 2016 Premio IUEM 8 de marzo
- 2013 Lloyd Cotsen Prize for Lifetime Achievement in Archaeology Junior Prize
- 2000 Mellon Foundation Pre-dissertation Award

Publications

Writer or co-writer

Supervisor and editor

Provider of geoarchaeological data (wrote only my part)

Director of archaeological excavations (wrote very little or nothing)

Articles

Marin-Monfort, M.D., Fagoaga, A., García-Morato, S., Sánchez, F.J.R., Mallol, C., Hernández, C., Galván, B. and Fernández-Jalvo, Y., 2021. Contribution of small mammal taphonomy to the last Neanderthal occupations at the El Salt site (Alcoi, southeastern Spain). *Quaternary Research*, pp.1-17.

<https://doi.org/10.1017/qua.2021.4>

Connolly, R., Jambriña-Enríquez, M., Herrera-Herrera, A.V., & Mallol, C. 2021. Investigating Hydrogen Isotope Variation during Heating of n-Alkanes under Limited Oxygen Conditions: Implications for Palaeoclimate Reconstruction in Archaeological Settings. *Molecules* 26(7): p.1830. <http://dx.doi.org/10.3390/molecules26071830>.

Marquina-Blasco, R., Fagoaga, A., Crespo, V.D., Bailon, S., Mallol, C., Hernández, C.M., Galván, B., Ruiz-Sánchez, F.J. 2021. Amphibians and reptiles as palaeoenvironmental proxies during the Late Pleistocene (MIS3): The case of Stratigraphic Unit V of El Salt, Alcoi, Spain, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 110372.

<https://doi.org/10.1016/j.palaeo.2021.110372>.

Rampelli, S., Turrone, S., Mallol, C., Hernandez, C., Galván, B., Sistiaga, A., Biagi, E., Astolfi, A., Brigidi, P., Benazzi, S. and Lewis, C.M., 2021. Components of a Neanderthal gut microbiome recovered from fecal sediments from El Salt. *Communications biology*, 4(1), pp.1-10. <https://doi.org/10.1038/s42003-021-01689-y>

Bradák, B., Carrancho, Á., Herrejón Lagunilla, Á., Villalaín, J. J., Monnier, G. F., Tostevin, G., Mallol, C. & Borovinić, N. 2021. Magnetic fabric and archaeomagnetic analyses of anthropogenic ash horizons in a cave sediment succession (Crvena Stijena site, Montenegro). *Geophysical Journal International*, 224(2), 795-812.

<https://doi.org/10.1093/gji/ggaa461>

Castilla-Beltrán, A., Duarte, I., De Nascimento, L., Fernández-Palacios, J. M., Romeiras, M., Whittaker, R. J., Jambriña-Enríquez, M., Mallol, C., Edwards, M. & Nogué, S. 2020. Using multiple palaeoecological indicators to guide biodiversity conservation in tropical dry islands: The case of São Nicolau, Cabo Verde. *Biological Conservation*, 242, 108397.

<https://doi.org/10.1016/j.biocon.2019.108397>

Cullen, V. L., Smith, V. C., Tushabramishvili, N., Mallol, C., Dee, M., Wilkinson, K. N., & Adler, D. S. 2020. A revised AMS and tephra chronology for the Late Middle to Early Upper Paleolithic occupations of Ortvale Klde, Republic of Georgia. *Journal of Human Evolution*, 151, 102908. <https://doi.org/10.1016/j.jhevol.2020.102908>

de Vera, C. R., Herrera-Herrera, A. V., Jambriña-Enríquez, M., Sossa-Ríos, S., González-Urquijo, J., Lazuen, T., & Mallol, C. 2020. Micro-contextual identification of archaeological lipid biomarkers using resin-impregnated sediment slabs. *Scientific reports*, 10(1), 1-14. <https://doi.org/10.1038/s41598-020-77257-x>

Herrera-Herrera, A. V., Mohamed-Rodríguez, N., Socas-Rodríguez, B., & Mallol, C. 2020. Development of a QuEChERS-based method combined with gas chromatography-mass spectrometry for the analysis of alkanes in sediments. *Microchemical Journal*, 104774. <https://doi.org/10.1016/j.microc.2020.104774>

Lambrecht, G., & Mallol, C. 2020. Autofluorescence of experimentally heated bone: Potential archaeological applications and relevance for estimating degree of burning. *Journal of Archaeological Science: Reports*, 31, 102333.

<https://doi.org/10.1016/j.jasrep.2020.102333>

Lambrecht, G., de Vera, C. R., Jambriña-Enríquez, M., Crevecoeur, I., Gonzalez-Urquijo, J., Lazuen, T., & Mallol, C. 2021. Characterisation of charred organic matter in micromorphological thin sections by means of Raman spectroscopy. *Archaeological and Anthropological Sciences*, 13(1), 1-15. <https://doi.org/10.1007/s12520-020-01263-3>

- Leierer, L., Alonso, Á. C., Pérez, L., Lagunilla, Á. H., Herrera-Herrera, A. V., Connolly, R., Jambrina-Enríquez, M., Hernández, C. & Mallol, C. 2020. It's getting hot in here—Microcontextual study of a potential pit hearth at the Middle Paleolithic site of El Salt, Spain. *Journal of Archaeological Science*, 123, 105237. <https://doi.org/10.1016/j.jas.2020.105237>
- Mallol, C. Fernández Aceituno, J., Arnay, R 2020. Soil micromorphological image classification using deep learning: The porosity parameter. *Applied Soft Computing*. in press, Elsevier, 18/01/2021. <https://doi.org/10.1016/j.asoc.2021.107093>
- Mayor, A., Hernández, C. M., Machado, J., Mallol, C., & Galván, B. 2020. On identifying Palaeolithic single occupation episodes: archaeostratigraphic and technological approaches to the Neanderthal lithic record of stratigraphic unit xa of El Salt (Alcoi, eastern Iberia). *Archaeological and Anthropological Sciences*, 12(4), 1-29. <https://doi.org/10.1007/s12520-020-01022-4>
- Mallol, C., Hernández, C., Mercier, N., Falguères, C., Carrancho, Á., Cabanes, D., Vidal-Matutano, P., Connolly, R., Pérez, L., Mayor, A. and Arous, E.B., 2019. Fire and brief human occupations in Iberia during MIS 4: Evidence from Abric del Pastor (Alcoy, Spain). *Scientific reports*, 9(1), pp.1-11. <https://doi.org/10.1038/s41598-019-54305-9>**
- Herrejón Lagunilla, Á., Carrancho, Á., Villalán, J.J., Mallol, C. and Hernández, C.M., 2019. An experimental approach to the preservation potential of magnetic signatures in anthropogenic fires. *PLoS one*, 14(8), p.e0221592. <https://doi.org/10.1371/journal.pone.0221592>
- Leierer, L., Jambrina-Enríquez, M., Herrera-Herrera, A.V., Connolly, R., Hernández, C.M., Galván, B. and Mallol, C., 2019. Insights into the timing, intensity and natural setting of Neanderthal occupation from the geoarchaeological study of combustion structures: A micromorphological and biomarker investigation of El Salt, unit Xb, Alcoy, Spain. *PLoS one*, 14(4), p.e0214955. <https://doi.org/10.1371/journal.pone.0214955>
- Buonasera, T., Herrera-Herrera, A.V. and Mallol, C., 2019. Experimentally derived sedimentary, molecular, and isotopic characteristics of bone-fueled hearths. *Journal of Archaeological Method and Theory*, 26(4), pp.1327-1375. <https://doi.org/10.1007/s10816-019-09411-3>
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- Jambrina-Enríquez, M., Herrera-Herrera, A.V., de Vera, C.R., Leierer, L., Connolly, R. and Mallol, C., 2019. n-Alkyl nitriles and compound-specific carbon isotope analysis of lipid combustion residues from Neanderthal and experimental hearths: identifying sources of organic compounds and combustion temperatures. *Quaternary Science Reviews*, 222, p.105899. <https://doi.org/10.1016/j.quascirev.2019.105899>
- Brittingham, A., Hren, M.T., Hartman, G., Wilkinson, K.N., Mallol, C., Gasparyan, B. and Adler, D.S., 2019. Geochemical evidence for the control of fire by Middle palaeolithic Hominins. *Scientific reports*, 9(1), pp.1-7. <https://doi.org/10.1038/s41598-019-51433-0>
- Herrera-Herrera, A.V. and Mallol, C., 2018. Quantification of lipid biomarkers in sedimentary contexts: Comparing different calibration methods. *Organic geochemistry*, 125, pp.152-160. <https://doi.org/10.1016/j.orggeochem.2018.07.009>
- Fagoaga, A., Blain, H. A., Marquina-Blasco, R., Laplana, C., Sillero, N., Hernández, C. M., Mallol, C. & Ruiz-Sánchez, F. J. 2019. Improving the accuracy of small vertebrate-based palaeoclimatic reconstructions derived from the Mutual Ecogeographic Range. A case study using geographic information systems and UDA-ODA discrimination methodology. *Quaternary Science Reviews*, 223, 105969. <https://doi.org/10.1016/j.quascirev.2019.105969>
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- Jambrina-Enrriquez, M., Herrera-Herrera, A.V. and Mallol, C., 2018. Wax lipids in fresh and charred anatomical parts of the *Celtis australis* tree: Insights on paleofire interpretation. *Organic Geochemistry*, 122, pp.147-160. <https://doi.org/10.1016/j.orggeochem.2018.05.017>
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- Égüez, N., Mallol, C., Martín-Socas, D., Camalich, M.D. 2016. Radiometric dates and micromorphological evidence for synchronous domestic activity and sheep penning in a Neolithic cave: Cueva de El Toro (Málaga, Antequera, Spain). *Archaeological and Anthropological Sciences*, 8 (1), pp. 107-123. <https://doi.org/10.1007/s12520-014-0217-0>
- Vidal-Matutano, P., Hernández, C.M., Galván, B. and Mallol, C., 2015. Neanderthal firewood management: evidence from stratigraphic unit IV of Abric Del Pastor (eastern Iberia). *Quaternary Science Reviews*, 111, pp.81-93. <https://doi.org/10.1016/j.quascirev.2015.01.010>
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- Sistiaga, A., Mallol, C., Galván, B., Summons, R. 2014. The Neanderthal meal: a new perspective using faecal biomarkers. *PloS one*. 9 - 6, pp. e101045 - e101045. <https://doi.org/10.1371/journal.pone.0101045>
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- Galván, B., Hernandez, C.M., Mallol, C., Mercier, N., Sistiaga, A. and Soler, V., 2014. New evidence of early Neanderthal disappearance in the Iberian Peninsula. *Journal of Human Evolution*, 75, pp.16-27. <https://doi.org/10.1016/j.jhevol.2014.06.002>
- Machado, J., Hernández, C.M., Mallol, C. and Galván, B., 2013. Lithic production, site formation and Middle Palaeolithic palimpsest analysis: in search of human occupation episodes at Abric del Pastor Stratigraphic Unit IV (Alicante, Spain). *Journal of Archaeological Science*, 40(5), pp.2254-2273. <https://doi.org/10.1016/j.jas.2013.01.002>
- Mallol, C., Hernández, C.M., Cabanes, D., Machado, J., Sistiaga, A., Pérez, L. and Galván, B., 2013. Human actions performed on simple combustion structures: an experimental approach to the study of Middle Palaeolithic fire. *Quaternary International*, 315, pp.3-15. <https://doi.org/10.1016/j.quaint.2013.04.009>
- Mallol, C., Hernández, C.M., Cabanes, D., Sistiaga, A., Machado, J., Rodríguez, Á., Pérez, L. and Galván, B., 2013. The black layer of Middle Palaeolithic combustion structures. Interpretation and archaeostratigraphic implications. *Journal of archaeological science*, 40(5), pp.2515-2537. <https://doi.org/10.1016/j.jas.2012.09.017>

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García-Antón Trassierra, M.D., Morant Sabater, N. and Mallol Duque, C., 2002. L'approvisionnement en matières premières lithiques au Pléistocène inférieur et moyen dans la Sierra de Atapuerca, Burgos (Espagne). *L'Anthropologie* (Paris), 106(1), pp.41-55. ISSN 0003-5521

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García-Antón, M.D. and Mallol, C., 1998. Nuevos datos sobre el aprovisionamiento de materias primas en el Pleistoceno Medio e Inferior de la Sierra de Atapuerca, Burgos. *Rubricatum: revista del Museu de Gavà*, pp.53-53. ISSN 2385-5088

Mallol, C., 1998. Paleoeconomía sistémica: modelo teórico para el estudio de recursos líticos en la Prehistoria. *Rubricatum: revista del Museu de Gavà*, (2), pp.15-20. ISSN 2385-5088

Book Chapters

Mallol, C. & Goldberg, P., 2017. Cave and Rockshelter Sediments. In: Nicosia, C. and Stoops, G. eds., *Archaeological soil and sediment micromorphology*. John Wiley & Sons, pp. 359 - 377. ISBN 978-1-118-94105-8

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