



# Carolina Mallol

Ramón y Cajal Researcher in Archaeological Science

- [Archaeological Micromorphology and Biomarkers \(AMBI Lab\)](#)

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## EDUCATION

**Harvard University, USA.** *M.A. in Anthropology (1999); PhD in Anthropology (2004)*

**Universitat Rovira i Virgili, Spain.** *Licenciatura in Geografía e Historia (1996)*

## POSTDOCTORAL RESEARCH APPOINTMENTS

**Ramón y Cajal**, Universidad de La Laguna, Department of Geography and History (2014-2019)

**Juan de La Cierva**, Universidad de La Laguna, Department of Geography and History (2009-2013)

**Marie Curie (IEF)**, CNRS-UMR 6636, France (2006-2008)

**ASPR**, Harvard University, Department of Anthropology (2004-2005)

## RESEARCH ACTIVITY

### ● **Projects (PI)**

2015-2020: ERC-Consolidator-648871-PALEOCHAR. 1.600.000 €.

2015-2016: “Neandertal Fire Technology” Leakey Foundation Grant. 20.659,37 €.

2014-2016: “Paleoenvironmentary and Paleodietary Reconstruction of Early Hominin Sites” (Co-PI). MISTI Global Seed Funds (MIT, USA): 16.526,42 €.

2013-2014: “Neandertal Fire Technology” Leakey Foundation Grant. 13.208,52 €.

2009-2011: “Neandertal Fire Technology” Leakey Foundation Grant. 8.632 €.

### ● **Organization of International Scientific Meetings**

2010: EAA Session, 20 participants, The Netherlands

2008: <http://geoarcheology.free.fr>, 60 participants, France

2007: Micromorphology Workshop, 40 participants, France

### ● **Reviewing (2007-present)**

National Geographic Society (NGS, USA), American National Science Foundation (NSF), Social Sciences and Humanities Research Council of Canada (SSHRC), Journal of Human Evolution, Journal of Archaeological Science, Quaternary International, Geoarchaeology, Antiquity, Latin American Antiquity and Archaeological and Anthropological Sciences.

### ● **Ongoing International Collaborations**

B. Galván and C. Hernández (La Laguna University) - El Salt Neanderthals

Roger Summons and Ainara Sistiaga (MIT) - Lipid analysis of prehistoric sediments

Jose Antonio Palenzuela and Jose A. Gavín (IUBO) -Organic chemistry in archaeology

Eugène Morin (Trent University), François bachelierie and Isabelle Crevecoeur (Bordeaux University), Helène Rougier (California State University) – Roche-à-Pierrot Neanderthals

Manuel Domínguez-Rodrigo (U. Complutense) - Early Hominin habitats

Daniel Adler (U. Connecticut) - Palaeolithic archaeology in Armenia

Philip Nigst (Cambridge University) - Earliest modern humans in Europe

Ludovic Slimak (CNRS) – Mandrin Neanderthals

Christopher Miller and Susan Mentzer (Tübingen U.) - Geoarchaeology

Dan Cabanes (Max Plank, Leipzig) and Ángel Carrancho (Burgos University) - Neanderthal fire

Brian Wood (Yale University) and Aureade Henry (CNRS) – Geo-ethnoarchaeology

Cheryl Makarewicz (Kiel University) - Isotopes in archaeology

jorge Onrubia (U. Castilla-La Mancha) - Cueva Pintada geoarchaeology

Matilde Arnay (La Laguna University) - Pre-hispanic Tenerife geoarchaeology

Juan Francisco Navarro (La Laguna U) - Pre-hispanic la Palma geoarchaeology

### ● **Prizes and Awards**

2013: Lloyd Cotsen Prize for Lifetime Achievement in World Archaeology (Junior Laureate)

1999: Pre-dissertation Award, Mellon Foundation, USA

## ● Publications

1. Mallol, C. And Mentzer, S., 2015. Contacts under the lens: Perspectives on the role of microstratigraphy in archaeological research. *Archaeological and Anthropological Sciences*, 2015:1-25.
2. Aplicaciones en Geoarqueología, Capítulo 10 en: Loaiza, J.C. et. al. Eds: *Manual de Micromorfología de suelos y técnicas complementarias*. Institución Universitaria Pascual Bravo: 321-352.
3. Vidal, P., Hernández, C., Galván, B., Mallol, C., 2015. Neanderthal firewood management: evidence from Stratigraphic Unit IV of Abric del Pastor (Eastern Iberia). *Quaternary Science Reviews*. Elsevier. 111, pp.81-93.
4. Machado, J., Hernández C.M., Mallol, C., 2015. Insights into Middle Palaeolithic Settlement Patterns: The Palimpsest Problem. *Settlement Dynamics of the Middle Paleolithic and Middle Stone Age*. Tübingen Publications in Prehistory. IV. 361-382.
5. Adler, D.S., Wilkinson, K.N., Blockley, S., Mark, D.F., Pinhasi, R., Schmidt-Magee, B.A., Nahapetyan, S., Mallol, C., Berna, F., Glauberman, P., Raczynski-Henk, Y., Wales, N., Frahm, E., Jöris, O., MacLeod, A., Smith, V., Cullen, V. Gasparian, B. 2014. Early Levallois technology and the Lower to Middle Paleolithic transition in the Southern Caucasus. *Science*, 345-6204: 1609-1613.
6. Nigst, P., Haesaerts, P., Damblon, F., Frank-Fellner, C., Mallol, C., Viola, B., Göttinger, M., Niven, L., Trnka, G., Hublin, J.-J., 2014. Early modern human settlement of Europe north of the Alps occurred 43,500 years ago in a cold steppe-type environment. *PNAS*, 111-40: 14394-14399.
8. Garralda, M.D., Galván, B., Hernández, C.M., Mallol, C., 2014. Neandertals from El Salt (Alcoy, Spain) in the Context of the Latest Middle Palaeolithic Populations in the Southeast of the Iberian Peninsula. *Journal of Human Evolution*, 75: 1-15.
9. Sistiaga, A., Mallol, C., Galván, B., Summons, R.E. 2014. The Neanderthal Meal: a New Perspective Using Faecal Biomarkers. *PlosOne* e-101045-e101045: 9-6.
10. Galván, B., Hernández, C.M., Mallol, C., Sistiaga, A., Soler, V., Mercier, N., 2014. The last Neandertals of Mediterranean Iberia. New chronological framework for the site of El Salt (Alcoy, Spain). *Journal of Human Evolution*, 75.16-27.
11. Mallol, C., Hernández, C., Cabanes, D., Machado, J., Sistiaga, A., Pérez, L. and Galván, B., 2013. Human Actions on Simple Combustion Structures: An Experimental Approach to Middle Palaeolithic Fire. *Quaternary International* 315, 3-15.
12. Égüez, et al., 2014. 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*: 1-17.
13. Mallol, C., Hernández, C., Cabanes, D., Machado, J., Sistiaga, A., Pérez, L. and Galván, B. 2013. The Black Layer of Middle Palaeolithic Combustion Structures. Interpretation and Archaeostratigraphic Implications. *Journal of Archaeological Science*, 40: 2515-2537.
14. Machado, J., Hernández, C., Mallol, C., 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: 2254-2273.
15. Mallol, C., Hernández, C. and Machado, J., 2012. The significance of stratigraphic discontinuities in Iberian Middle-Upper Palaeolithic sites. *Quaternary International*, 275: 4-13.
  16. Adler, D.S., Yeritsyan, B., Wilkinson, K., Pinhasi, R., Bar-Oz, G., Nahapetyan, S., Mallol, C., Berna, F., Bailey, R., Schmidt, B.A., Glauberman, P., Wales, N., Gasparyan, B., 2012. The Hrazdan gorge Palaeolithic project, 2008-2009. In: Avetisyan, P and Bobokhyan, A. (Eds.), *Archaeology of Armenia in Regional Context. Proceedings of the International Conference dedicated to the 50th Anniversary of the Institute of Archaeology and Ethnography*: 22-39.
  17. Mallol, C., Vanniewenhuise, D. and Zaidner, Y., 2010. Depositional and Paleoenvironmental Setting of the Bizat Ruhama Early Pleistocene Archaeological Assemblages, Northern Negev, Israel: A Microstratigraphic Perspective. *Geoarchaeology*, 26(1): 118-141.
  18. Mallol, C., Cabanes, D. and Baena, J., 2010. Microstratigraphy and diagenesis at the Upper Pleistocene site of Esquilleu Cave (Cantabria, Spain). *Quaternary International*, 214: 70-81.
  19. Mallol, C. and Betran, P., 2010. Geoarchaeology and Taphonomy. *Quaternary International*, 214: 1-2.
  20. Cabanes, D., Mallol, C., Expósito, I. y Baena, J., 2010. Phytolith Evidence for Hearths and Beds in the Late Mousterian Occupations of Esquilleu Cave (Cantabria, Spain). *Journal of Archaeological Science*, 37: 2947-2957.
  21. Zaidner, Y., Yeshurun, R. and Mallol, C., 2010. Early Pleistocene hominins outside Africa: Recent excavations at Bizat Ruhama, Israel. *Paleoanthropology*: 162-195.
  22. Mallol, C., Mentzer, S. and Wrinn, P., 2009. A micromorphological and mineralogical study of site formation processes at the Late Pleistocene site of Obi-Rakhmat, Uzbekistan. *Geoarchaeology*, 24 (5):548-575.
  23. Goldberg, P., Meignen, L. and Mallol, C., 2009. Geoarchaeology, Site Formation and Transitions. In Shea, J.J. & Lieberman, D. Eds, *Transitions in Prehistory: Essays in Honor of Ofer Bar-Yosef*: 431-443.
  24. Mallol, C., Carbonell, E., 2008. The Collapse of Gran Dolina Cave, Sierra de Atapuerca, Spain: Site Formation Processes of Layer TD10-1. *Geoarchaeology*, 23(1): 13-41.
  25. Nigst, P., Viola, B., Haesaerts, P., Blockley, S., Damblon, F., Frank, C., Fuchs, M., Götzinger, M., Hambach, U., Mallol, C., Moreau, L., Niven, L., Richards, M., Richter, D., Zöller, L., Trnka, G. & Hublin, J.-J. 2008. New research on the Aurignacian of Central Europe: A first note on the 2006 fieldwork at Willendorf II. *Quartär*, 55: 100-200.
  26. Mallol, C., Marlowe, F., Porter, C., Wood, B. and Bar-Yosef, O., 2007. Earth, wind and fire: Ethnoarchaeological signals of Hadza fires. *Journal of Archaeological Science*, 34 (12): 2035-2052.
  27. Mallol, C., 2006. What's in a beach? Soil micromorphology of sediments from the Lower Palaeolithic site of 'Ubeidiya, Israel. *Journal of Human Evolution*, 51: 185-206.
  28. Marks, A.E., Brugal, J.-Ph., Chabai, V.P., Monigal, K., Goldberg, P., Hockett, B., Peman, E., Elorza, M., Mallol, C., 2002. Le gisement pléistocène moyen de Galeria Pesada (Estrémadura, Portugal): premiers résultats. *Paleo*, 14: 77-100.

29. Marks A., Monigal K., Chabai V., Brugal J.-P., Goldberg P., Hockett B., Pemán M., Elorza M., Mallol C. , 2002. Excavations of the Middle Pleistocene cave site of Galeria Pesada, Portuguese Estremadura: 1997-1999. *O Arqueólogo Português*, 20 (IV):3-38.
30. Arpin, T., Mallol C., Goldberg P., 2002. A New Method of Analyzing and Documenting Micromorphological Thin Sections Using Flatbed Scanners: Applications in Geoarchaeological Studies. *Geoarchaeology*, 17(3):305-313.
31. Mallol C., 2002. Review of Out of Africa in the Pleistocene. L.G. Straus and O. Bar-Yosef (Eds). *Geoarchaeology*, 17(6): 627-629.
32. García-Antón M.D., Morant N., Mallol C., 2002. L'approvisionnement en matieres premieres lithiques au Pléistocene inférieur et moyen dans la Sierra d'Atapuerca, Burgos (Espagne). *L'Anthropologie*, 106:41-55.
33. Carbonell E., Vaquero M., Maroto J., Rando J.M., Mallol C., 2000. A Geographic Perspective on the Middle to Upper Palaeolithic Transition in the Iberian Peninsula. In Bar-Yosef, O. & Pilbeam, D. Eds., *The Geography of Neandertals and Modern Humans in Europe and the Greater Mediterranean*: 5-31.
34. Carbonell E, García-Antón M.D., Mallol C., Mosquera M., Ollé A., Rodriguez X.P., Sahnouni M., Sala R., Vergès J.M., 1999. The TD6 level lithic industry from Gran Dolina, Atapuerca (Burgos, Spain): Production and use. *Journal of Human Evolution*, 37: 653-694.
35. Mallol C., 2000. The selection of lithic raw materials in the Lower Paleolithic site of Gran Dolina (Sierra de Atapuerca, Spain) and its technological applications. *Journal of Human Evolution*, 38 : A16
36. Mallol C., 1999. The selection of lithic raw materials in the Lower and Middle Pleistocene levels TD6 and TD10A of Gran Dolina (Sierra de Atapuerca, Burgos, Spain). *Journal of Anthropological Research*, 55: 385-407.

## OTHER ACADEMIC ACTIVITY

### ● Supervising

2009-2015: Ainara Sistiaga (PhD, Universidad de La Laguna)

2009-present: Natalia Égüez (PhD, Kiel University)

2008-2009: Dorcas Vanniewenhuise (M.A., Université de Provence)

### ● Teaching

2011-present: "Geoarchaeology" (Universidad de La Laguna, Master level course; sole instructor)

2011-present: "Archaeometry" (Universidad de La Laguna, Master level course; sole instructor)

2014:"Historia de África (Universidad de La Laguna, Undergraduate level course; shared)

2014-present. "Prehistoria de la Península Ibérica (Universidad de La Laguna, Undergraduate level course; shared)

2000-2001. "Human Evolution" (Harvard University, Undergraduate level course; teaching assistant)