

## Arnau Garcia-Molsosa

Ramón y Cajal fellow

Catalan Institute of Classical Archaeology

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### POSITIONS

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2023-2027: Ramon y Cajal fellow, Catalan Institute of Classical Archaeology

2020-2022: Beatriu de Pinós - Marie Skłodowska-Curie cofund program fellow, Catalan Institute of Classical Archaeology

2018-2019: Marie Skłodowska-Curie Fellow, McDonald Institute for Archaeological Research

2017: Post-Doctoral researcher, University of Balearic Islands

2016-2017: IEMA Post-Doctoral Scholar and Adjunct Instructor, Institute for European and Mediterranean Archaeology. State University of New York – University at Buffalo

2013-2015: Post-Doctoral Researcher, Catalan Institute of Classical Archaeology.

#### *Non-Stipendiary positions*

2021- : Visiting lecturer at the Department of History and Art History, Universitat Rovira i Virgili (Spain).

2020- : Affiliated Researcher. University of Kerala (India).

2018-2019: Postdoctoral Research Associate. Queens' College. University of Cambridge (UK)

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### EDUCATION

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2013: PhD in Archaeology with honours (*Cum Laude & Doctor Europeus*). Universitat Rovira i Virgili. Thesis: *Archaeology of the cultural landscapes of Montseny Massif. Historical dynamics from the Prehistory to the Early Middle Ages* (<http://hdl.handle.net/10803/290993>).

2013: Postgraduate studies in Geographic Information Systems. Universitat Oberta de Catalunya.

2008: Master in Classical Archaeology. Universitat Rovira i Virgili & Universitat Autònoma de Barcelona.

2005: B. A. History. Universitat de Barcelona.

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## RESEARCH EXPERIENCE

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### *Direction of funded research projects*

*RYC2021-034341-I: Ramon y Cajal Fellowship (Research line: Innovative approaches to surface archaeological record for historical landscape analysis).* Funding Institution: Spanish Ministry of Science (236.350,00€). Host Institution: Institut Català d'Arqueologia Clàssica. PI: A. Garcia-Molsosa. 2023-

*MoundArch (DEM OTHER3598): Testing large-scale detection of mounded archaeological features and geomorphological signatures in the cultural landscapes of Northern Greece.* Funding Institution: German Space Agency (DLR), (TanDEM-X for a market value c. 1.030.000€). Host Institution: Institut Català d'Arqueologia Clàssica. PI: A. Garcia-Molsosa. 2022-

*TrackSherd (2018 BP 00208): Towards an automated archaeological surface survey: Development of Machine and deep learning-based methods for automated identification and classification of potsherds in subcentimetric drone-acquired imagery.* Funding: Beatriu de Pinós – MSCA Co-Fund programme BP3-801370 (AGAUR & European Commission: €144.300,00). Host Institution: Catalan Institute of Classical Archaeology. PI: A. Garcia-Molsosa. 2020-2022.

*GAP: Grevena Archaeological Project.* Host Institution: Ephorate of Antiquities of Grevena (Hellenic Ministry of Culture). PI: M. Georgiadis; S. Dimaki; A. Garcia-Molsosa; A. Mayoral & G. Apostolou. 2021-

*WaMStrIn (H2020-MSCA-IF-2016-746446): Water Management Strategies and Climate Change and Indus.* Funding: Marie Skłodowska-Curie Actions Individual Fellowship (European Commission: €183.454,80). Host Institution: University of Cambridge. PI: A. Garcia-Molsosa. 2018-2019.

*AP31/19-AP31/20: Projecte d'investigació, transferència de coneixement i posada en valor de l'antiga capella de Sant Julià de Valldaneu. Fases I (2019) i II (2020).* XIV (2019) i XV (2020) convocatòria d'ajuts per a projectes d'investigació o de difusió cultural (Institut Ramon Muntaner: 3.950€). Host Institution: Ajuntament (City Council) of Sant Martí de Centelles. PI: A. Garcia-Molsosa; F.C. Conesa & J. Oliver. 2019.

*CLT009/18/00096: L'Alt Congost entre l'Antiguitat Tardana i l'Alta Edat Mitjana: Recerca arqueològica, transferència de coneixement i proposta de socialització de resultats. ("Alt Congost" between Late Antiquity and Early Middle Ages: Archaeological Research, transfer of Knowledge and scientific socialization).* Funding: Programa de Recerca Quadriennal en Arqueologia (Departament de Cultura - Generalitat de Catalunya; Ajuntament d'Aiguafreda; Ajuntament de Sant Martí de Centelles: 26.882,90€). Host Institution: Catalan Institute of Classical Archaeology. PI: A. Garcia-Molsosa & J. Ciurana. 2018-2021.

*Webpage dedicated to local heritage: A la recerca dels paisatges garriguencs desapareguts: El llac de la Garriga.* (<http://www.cd.h.lagarriga.cat/contingut/introduccio-la-recerca-dels-paisatges-garriguencs-desapareguts-el-llac-de-la-garriga>). Funding:

Ajuntament (City Council) of la Garriga (10.651,30€). Host Institution: Institut Català d'Arqueologia Clàssica. PI: A. Garcia-Molsosa. 2017.

2016-2017 *IEMA Postdoctoral Scholar*. Funding: Institute for European and Mediterranean Archaeology, State University of New York at Buffalo (\$45.000, aprox €37.200). Host Institution: SUNY at Buffalo. PI: A. Garcia-Molsosa. 2016-2017.

2015 *Competitive Post-Doctorate contract in the University of Balearic Islands*. Funding: University of the Balearic Islands – La Caixa Foundation: €65.000. Host Institution: University of the Balearic Islands. PI: A. Garcia-Molsosa. 2016.

CLT 2014/100955: *Paisatges culturals de l'Alt Congost. Recerca arqueològica, transferència de coneixement i proposta de socialització dels resultats*. Funding: Programa de Recerca Quadriennal en Arqueologia (Departament de Cultura - Generalitat de Catalunya; Ajuntament d'Aiguafreda; Ajuntament de Sant Martí de Centelles: 36.735,84€). Host Institution: Catalan Institute of Classical Archaeology. PI: A. Garcia-Molsosa. 2014-2017

*Elaboration of a book presenting last advances in local history and heritage to the general public: "Història de la Garriga. Dels primers assentaments humans al segle XXI"*. Funding: Ajuntament (City Council) of la Garriga (25.629,20€). Host Institution: Ajuntament (City Council) of la Garriga. PI: E. Barbé; A. Garcia-Molsosa; J. Oliver & J. Llimargas. 2015.

*Formació del paisatge cultural del massís del Montseny. Entre la prehistòria i l'edat mitjana (The formation of Montseny massif Cultural Landscapes. From Prehistory to Early Middle Ages)*. Funding Institution: Departament de Cultura-Generalitat de Catalunya (6.550€). Host Institution: Institut Català d'Arqueologia Clàssica. PI: A. Garcia-Molsosa. 2009-2013.

#### *Supervision of funded post-doctoral research projects*

JDC2022-050110-I: *Application of experimental remote sensing for the identification and analysis of cultural heritage*. Funding Institution: Spanish Ministry of Science. Program Juan de la Cierva (67,400€). PI: E. Gupta. 2024-2026

IArchMap (HORIZON-MSCA-2021-PF-01. Project number 101067031): *Intelligent Archaeological Mapping of Long-Term Settlement in Punjab*. 165,312.96€. Funding: Marie Skłodowska-Curie Actions Postdoctoral Fellowship (European Commission: €165,312.96). Host Institution: Institut Català d'Arqueologia Clàssica. PI: Aftab Alam. [Not initiated, the candidate renounced to take a position as Assistant Professor of Ancient Indian History and Archaeology in the Centre of Advanced Study, Department of History, Aligarh Muslim University]

#### *Participation in research projects:*

CLT009/22/00036: *PASToralisme i explotació del medi natural al MONTseny occidental en la transició de l'Antiguitat al món Medieval. Recerca arqueològica, transferència de coneixement i proposta de socialització de resultats*. Funding:

Programa de Recerca Quadriennal en Arqueologia (Departament de Cultura - Generalitat de Catalunya; Ajuntament d'Aiguafreda: 24.685,72€). Host Institution: Catalan Institute of Classical Archaeology. PIs: A. Gallego & V. Pescini. 2022-2025

CLT009/22/00034: *Arqueologia del paisatge agrari, ocupació del territori i interaccions socioambientals al Baix Ter (Montgrí-Daró)*. Funding: Programa de Recerca Quadriennal en Arqueologia (Departament de Cultura - Generalitat de Catalunya: 30.595,72€). PIs: J. M. Palet & A. Mayoral. 2022-2025

CLT009/22/00035: *Arqueologia de l'alta muntanya a les capçaleres del Segre – Ter (Cerdanya-Ripollès): territori i paisatge*. Funding: Programa de Recerca Quadriennal en Arqueologia (Departament de Cultura - Generalitat de Catalunya). PIs: V. Pescini & A. Carbonell

CLT009/22/00012: *El territori de Cessetània occidental al primer mil·lenni aC: del bronze final a la romanització*. Funding: Programa de Recerca Quadriennal en Arqueologia (Departament de Cultura - Generalitat de Catalunya). PIs: C. Belarte & J. Canela. 2022-2025

TranScapes (PID2021-127064NB-I00): *Transported Mediterranean landscapes: diachronic integrated study of socio-environmental interactions and land-use changes at both sides of the Mediterranean*. Funding: Spanish National R&D program (Spanish Ministry of Science and Innovation: 106.000€). PIs: J. M. Palet & A. Mayoral. 2022-2025

MAHSA: *Mapping Archaeological Heritage in South Asia*. Funding: Arcadia Fund grants: \$2.310.934. PI: C. A. Petrie (University of Cambridge). 2020-

Proyecto arqueológico en el Kachchh (India): *Pastoralismo, intercambio y los orígenes de la Civilización del Indo*. Funding: Convocatoria de Ayudas 2020 (Palarq Foundation: €10.000). PI: J.J. García-Granero (CSIC) & F. C. Conesa (ICAC). 2020-

Arqueología del pastoralismo nómada en Mongolia: *Las huellas invisibles de los espacios domésticos*. Funding: Convocatoria de Ayudas 2020 (Palarq Foundation: €7000). PI: N. Égüez (U. de la Laguna). 2020-

LASS: *The Landscape Archaeology of Southwest Sardinia*. Participant institutions: Archaeological Mission of Pani Loriga (Istituto di Studi sul Mediterraneo, Consiglio Nazionale delle Ricerche), University of Padova, the State University of Florida. PI: E. A. Murphy & T. P. Leppard (The State University of Florida) & A. Roppa (U. of Padova). 2017- 2023

APAX: *Archaeological Project at Abdera and Xanthi*. Funding: Institute for Aegean Prehistory (INSTAP). PI: K. Kallintzi (Ephorate of Antiquities of Xanthi, Hellenic Ministry of Culture); E. Kefalidou (National & Kapodistrian University of Athens); M. Georgiadis (ICAC) & Y. Xydopoulos (University of Thessaloniki). 2015 - 2023

LTNS: *Long time, no see: Land Reclamation and the Cultural Record of Central-Western Plain of Thessaly*. Funding Institution: Institute for Aegean Prehistory. PI: H. A. Orenge (ICAC); A. Krahtopoulou (Ephorate of Antiquities of Karditsa, Hellenic Ministry of Culture) & S. Riera-Mora (University of Barcelona). 2014-

*DarkRevisited (PID2019-107605GB-100): The Aegean 'Dark Ages' revisited: A novel approach to old debates on agricultural economy and food culture.* Funding: Spanish National R&D program (Spanish Ministry of Science and Innovation). PI: A. Livarda (ICAC). 2020-2022.

*DIASur: Drone-based Intelligent Archaeological Survey.* Funding: Programa de Ayudas a Equipos de Investigación Científica 2019 (BBVA foundation: €74189.69). PI: H. A. Orengo (ICAC). 2020-2021.

*TransLands (PGC2018-093734-B-I00): Transported Mediterranean landscapes: An integrated analysis of long-term land-use dynamics at both sides of the Mediterranean.* Funding: Spanish National R&D program (Ministerio de Ciencia, Innovación y Universidades: €95.590). PI: H. A. Orengo & J. M. Palet (ICAC). 2019-2021.

*Patrimonio en Riesgo: Arqueología del paisaje, teledetección y patrimonio cultural en el marco de la erupción del volcán en La Palma.* Funding Institution: Dirección General del Patrimonio Cultural, Gobierno de Canarias (94/2021-1117123435: €14.900). Host Institution: University of La Laguna. IP: F. C. Conesa (ICAC); Nuria Álvarez (U. of La Laguna). 2021.

*CLT009/18/00101: Arqueologia dels paisatges culturals de muntanya a les capçaleres del Ter i del Segre (Ripollès-Cerdanya).* Funding: Programa de Recerca Quadriennal en Arqueologia (Departament de Cultura - Generalitat de Catalunya: €11,814.96). PI: J. M. Palet & L. Colominas (ICAC). 2018-2021.

*CLT009/18/00097: Espais agraris i ocupació del territori a la plana de l'Empordà: Arqueologia d'un paisatge cultural.* Funding: Programa de Recerca Quadriennal en Arqueologia (Departament de Cultura - Generalitat de Catalunya: €9.217,20). PI: H. A. Orengo (ICAC). 2018-2021.

*InterArPa (HAR2015-64636-P): Interacciones llano-montaña en el NE peninsular: Ocupación y dinámica del territorio en el llano del Empordà y en los Pirineos orientales a partir de la arqueología del paisaje.* Funding: Spanish National R&D program (Ministerio de Economía y Competitividad (MINECO / FEDER/UE ): €39,200). PI: J. M. Palet (ICAC). 2016-2019.

*Interaccions sociambientals a Addaia des de la prehistòria fins a l'actualitat. La construcció d'un paisatge cultural.* Funding: Institut Menorquí d'Estudis. PI: G. Servera (University of the Balearic Islands). 2015-2017.

*CLT 2014/100751: Interaccions socioambientals durant l'Holocè: Estructuració, ocupació i dinàmiques del territori a la conca del Ter a partir de l'arqueologia del paisatge.* Funding: Programa de Recerca Quadriennal en Arqueologia (Departament de Cultura - Generalitat de Catalunya: €7.206,90). PI: J. M. Palet (ICAC). 2014-2017.

*CLT 2014/100754: Els orígens del pastoralisme intensiu i la creació de paisatges culturals al nord-est de la Península Ibèrica.* Funding: Programa de Recerca Quadriennal en Arqueologia (Departament de Cultura - Generalitat de Catalunya: €5.007,31). PI: H. A. Orengo & J. M. Palet (ICAC). 2014-2017

TerAmAr (HAR2012-39087-C02-02): Interacciones socio-ambientales durante el Holoceno: Estructuración, ocupación y dinámicas del territorio en la cuenca del Ter a partir de la arqueología del paisaje. Funding: Spanish National R&D program (Ministerio de Ciencia). PI: J. M. Palet (ICAC). 2013-2015.

InterAmbAr (CGL2009-12676-C02-02): Integración de datos paleoambientales y arqueológicos para la interpretación de las interacciones climático-socio-ambientales en una cuenca del NE peninsular durante el Holoceno. II Datos Arqueológicos. Funding: Spanish National R&D program (Ministerio de Ciencia). PI: J. M. Palet. 2010-2012

Pratiques et mobilités territoriales sur le mont Lozère depuis le Néolithique: Gestion des ressources et services rendus aux sociétés du passé dans une moyenne montagne méditerranéenne. Funding: CNRS & Ministère de la Culture. PI: P. Allée (U de Limoges). 2010-2012.

Avenços en tecnologies SIG per a l'estudi del paisatge agrari romà. Funding: Projecte Batista i Roca. PI: I. Fiz (ICAC). 2009

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## PUBLICATIONS

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### Books

**Garcia-Molsosa, A. (Ed.).** (2023). *Archaeology of Mountain Landscapes Interdisciplinary Research Strategies of Agropastoralism in Upland Regions*. State University of New York Press.

Barbé, E., **Garcia, A.**, Llimargas, J., & Oliver, J. (2015). *Història de la Garriga. Dels primers assentaments humans al segle XXI*. Ajuntament de la Garriga.

**Garcia-Molsosa, A.**, & Molina-Villar, J. J. (2002). *La Garriga: De poble pagès a ciutat residencial*. Contrapunt. Centre d'Estudis i Debats.

### Publications in peer-reviewed scientific journals, conference proceedings and volume chapters

Apostolou, G., Venieri, K., Mayoral, A., Dimaki, S., **Garcia-Molsosa, A.**, Georgiadis, M., & Orengo, H. A. (2024). Integrating legacy survey data into GIS-based analysis: The rediscovery of the archaeological landscapes in Grevena (Western Macedonia, Greece). *Archaeological Prospection*. <https://doi.org/10.1002/arp.1926>

Mayoral, A., Ejarque, A., **Garcia-Molsosa, A.**, Georgiadis, M., Apostolou, G., Gaertner, V., Kallintzi, C., Kefalidou, E., & Orengo, H. (2024). A city against the current: A reconstruction of Holocene sea-level changes and the evolution of coastal landscapes in ancient Abdera (Thrace, Gr.). *CATENA*, 235, 107638. <https://doi.org/10.1016/j.catena.2023.107638>

**Garcia-Molsosa, A.**, Orengo, H. A., & Petrie, C. A. (2023). Reconstructing long-term settlement histories on complex alluvial floodplains by integrating historical map analysis and remote-sensing: An archaeological analysis of the landscape of the Indus River Basin. *Heritage Science*, 11(1), 141. <https://doi.org/10.1186/s40494-023-00985-6>

**Garcia-Molsosa, A.** (2023). Mountain Landscapes: The Archaeological perspective. In *Archaeology of Mountain Landscapes. Interdisciplinary Research Strategies of Agro-Pastoralism in Upland Regions* (pp. 1–17). State University of New York Press.

Palet, J. M., Orengo, H. A., **Garcia-Molsosa, A.**, Polonio, T., Ejarque, A., Miras, Y., & Riera, S. (2023). Landscape Archaeology in Eastern Pyrenees high mountain areas (Segre & Ter valleys, Northeast Iberian Peninsula): Human activities in the shaping of Mountain Cultural Landscapes. In *Archaeology of Mountain Landscapes. Interdisciplinary Research Strategies of Agro-Pastoralism in Upland Regions* (pp. 179–196). State University of New York Press.

Kefalidou, E., Georgiadis, A., **Garcia-Molsosa, A.**, Mayoral, A., Orengo, H. A. & Constantina Kallintzi. The Archaeological Project of Abdera and Xanthi (APAX): Preliminary Update (2022) on the Survey Program. In *Surveying Aegean Thrace in the Digital Era. Proceedings of the Workshop Held for the Research Project Archaeological and Geophysical Research at the Peraia of Samothrace (HFRI-FM17-750)*, edited by Amalia Avramidou and Jamieson C. Donati. Komotini, Greece: Democritus University of Thrace. School of Classics and Humanities. Department of Languages, Literature and Culture of the Black Sea Countries, 2023.

Colominas, L., Carbonell, A., Pescini, V., Mayoral, A., Gallego-Valle, A., **Garcia-Molsosa, A.**, Orengo, H. A., & Palet, J. M. (2023). L'arqueologia del paisatge aplicada a l'estudi dels espais altimontans: Experiències a les capçaleres del Ter i del Segre (el Ripollès, la Cerdanya, Andorra). *Treballs d'Arqueologia*, 26, 73-94. <https://doi.org/10.5565/rev/tda.128>

Georgiadis, M., Kallintzi, K., **Garcia-Molsosa, A.**, Orengo, H. A., Kefalidou, E., & Motsiou, P. (2022). The Archaeological Survey at Abdera and Xanthi 2015-2019: Long-term analysis of colonial relations in Thrace. *Archaeological and Anthropological Sciences*, 14 (9), 1-18. <https://doi.org/10.1007/s12520-022-01635-x>

Conesa, F.C., **Garcia-Molsosa, A.**, Angelats, E., & Orengo, H. A. (2022). Cloud-computing procedures for the automated detection and monitoring of archaeological sites, *2022 IEEE Mediterranean and Middle-East Geoscience and Remote Sensing Symposium (M2GARSS)*, Istanbul, Turkey, pp. 118-121, doi:10.1109/M2GARSS52314.2022.9840013

**Garcia-Molsosa, A.**, Orengo, H. A., Lawrence, D., Philip, G., Hopper, K., & Petrie, C. A. (2021). Potential of deep learning segmentation for the extraction of archaeological features from historical map series. *Archaeological Prospection*, 28(2), 187–199. <https://doi.org/10.1002/arp.1807>

Orengo, H. A., **Garcia-Molsosa, A.** (C. A.), Berganzo-Besga, I., Landauer, J., Aliende, P., & Tres-Martínez, S. (2021). New developments in drone-based automated surface survey: Towards a functional and effective survey system. *Archaeological Prospection*, 28(4), 519–526. <https://doi.org/10.1002/arp.1822>

Palet, J. M., **Garcia-Molsosa, A.**, Rodrigo, E., Orengo, H. A., & Ortega, M. J. (2021). Structuration et occupation du territoire dans la plaine littorale d'Empúries à l'Antiquité: Espaces agraires et réseaux centuriés. *MÉDITERRANÉE. Revue Géographique Des Pays Méditerranéens*, 133, 27–44. <https://doi.org/10.4000/mediterranee.13085>

Palet, J. M., Rodrigo, E., & **Garcia-Molsosa, A.** (2021). L'excavació d'espais agraris al territori d'Empúries (nord-oest del massís del Montgrí, Baix Empordà. Campanyes 2016-2018. In J. Burch, R. Buxó, J. Frigola, M. Fuertes, S. Manzano, & M. Mataró

(Eds.), *Quinzenes Jornades d'Arqueologia de les Comarques de Girona (Castelló d'Empúries, Octubre 2020)* (pp. 177–181). Documenta Universitaria.

Colominas, L., Palet, J. M., & **Garcia-Molsosa, A.** (2020). What happened in the highlands? Characterising Pyrenean livestock practices during the transition from the Iron Age to the Roman period. *Archaeological and Anthropological Sciences*, 12(3), 69. <https://doi.org/10.1007/s12520-020-01023-3>

Kallintzi, K., Georgiadis, M., Kefalidou, E., Xydopoulos, Y., Chysaphi, M., Chatziprokopiou, K., Skoulariki, D., Orengo, H. A., & **Garcia-Molsosa, A.** (2020). Αρχαιολογικό Πρόγραμμα Αβδήρων και Ξάνθης (ΑΠΑΞ): Πρώτο έτος της επιφανειακής έρευνας (Archaeological Project at Abdera and Xanthi (APAX): First Year of the Survey). *Το Αρχαιολογικό Έργο Στη Μακεδονία Και Στη Θρακία* 29, 2015, 29, 529–538.

Krahtopoulou, A., Frederick, C., Orengo, H. A., Dimoula, A., Kyrillidou, S., Livarda, A., & **Garcia-Molsosa, A.** (2020). Re-discovering the Neolithic Landscapes of Western Thessaly, Central Greece. In A. Blanco-González & T. L. Kienlin (Eds.), *Current approaches to tells in the prehistoric old world*. Oxbow Books.

Orengo, H. A., Conesa, F. C., **Garcia-Molsosa, A.**, Lobo, A., Green, A. S., Madella, M., & Petrie, C. A. (2020). Automated detection of archaeological mounds using machine-learning classification of multisensor and multitemporal satellite data. *Proceedings of the National Academy of Sciences*, 117(31), 18240–18250. <https://doi.org/10.1073/pnas.2005583117>

**Garcia, A.**, Orengo, H. A., Conesa, F. C., Green, A. S., & Petrie, C. A. (2019). Remote Sensing and Historical Morphodynamics of Alluvial Plains. The 1909 Indus Flood and the City of Dera Ghazi Khan (Province of Punjab, Pakistan). *Geosciences*, 9(1), 21. <https://doi.org/10.3390/geosciences9010021>

Green, A. S., Orengo, H. A., Alam, A., **Garcia-Molsosa, A.**, Green, L. M., Conesa, F., Ranjan, A., Singh, R. N., & Petrie, C. A. (2019). Re-Discovering Ancient Landscapes: Archaeological Survey of Mound Features from Historical Maps in Northwest India and Implications for Investigating the Large-Scale Distribution of Cultural Heritage Sites in South Asia. *Remote Sensing*, 11(18), 2089. <https://doi.org/10.3390/rs11182089>

Orengo, H. A., **Garcia, A.**, Conesa, F. C., Green, A., Singh, R. N., & Petrie, C. A. (2019). Combining TanDEM-X with multi-temporal, multi-source satellite data for the reconstruction of the Bronze Age landscapes of the Indus Civilisation. *IGARSS 2019 - 2019 IEEE International Geoscience and Remote Sensing Symposium*, 4581–4584. <https://doi.org/10.1109/IGARSS.2019.8898852>

Orengo, H. A., & **Garcia-Molsosa, A.** (2019). A brave new world for archaeological survey: Automated machine learning-based potsherd detection using high-resolution drone imagery. *Journal of Archaeological Science*, 112, 105013. <https://doi.org/10.1016/j.jas.2019.105013>

Palet, J. M., Olmos, P., **Garcia, A.**, Polonio, T., & Orengo, H. A. (2019). Occupation et anthropisation des espaces de haute montagne dans les vallées de Nuria et de Coma de Vaca (Gerona, Espagne): Résultats des recherches archéologiques et patrimoniales. In S. Costamagno, M. Deschamps, P.-Y. Milcent, J.-M. Pétillon, C. Renard, & N. Valdeyron (Eds.), *La conquête de la montagne: Des premières occupations humaines à l'anthropisation du milieu*. Éditions du Comité des travaux historiques et scientifiques. <http://books.openedition.org/cths/7007>

Petrie, C., Orengo, H. A., Green, A., Walker, J., **Garcia, A.**, Conesa, F., Knox, J., & Singh, R. (2019). Mapping Archaeology While Mapping an Empire: Using Historical

Maps to Reconstruct Ancient Settlement Landscapes in Modern India and Pakistan. *Geosciences*, 9(1), 11. <https://doi.org/10.3390/geosciences9010011>

Servera-Vives, G., Riera, S., Picornell-Gelabert, L., Moffa-Sánchez, P., Llergo, Y., **Garcia, A.**, Mus-Amezquita, M., García Álvarez, S., & Calvo Trías, M. (2018). The onset of islandscapes in the Balearic Islands: A study-case of Addaia (northern Minorca, Spain). *Palaeogeography, Palaeoclimatology, Palaeoecology*, 498, 9–23. <https://doi.org/10.1016/j.palaeo.2018.02.015>

**Garcia, A.**, Oliver, J., & Romero, M. (2017). Arqueología y tic en la conservación, la investigación y la interpretación del patrimonio: El caso de los dólmenes de serra de l'arca (montseny, barcelona). In D. Vaquerizo & A. B. Ruíz Osuna (Eds.), *Rescate. Del registro estratigráfico a la sociedad del conocimiento: El patrimonio arqueológico como agente de desarrollo sostenible: Vol. II*. UCO Press. Editorial Universidad de Córdoba.

Gómez, J., **Garcia, A.**, Colominas, L., Gallego, A., Roig, J., & Oliver, J. (2017). La Tradición Apócrifa De Eugenio De Toledo a La Luz De Un Nuevo Hallazgo Epigráfico. *Aevum*, 91, 295–310.

Palet, J. M., **Garcia, A.**, Orengo, H. A., & Polonio, T. (2017). Els espais altimontans pirenaics orientals a l'Antiguitat: 10 anys d'estudis en arqueologia del paisatge del GIAP-ICAC. *Treballs d'Arqueologia*, 21(0), 77–97. <https://doi.org/10.5565/rev/tda.59>

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### *Organization of international meetings and sessions*

Session co-organizer (with H. A. Orengo & I. Berganzo-Besga). 9 August 2022: Machine and deep learning methods in archaeological research: Beyond site detection. *Computer Applications in Archaeology Conference (CAA2022)*, Oxford, UK.

Session co-organizer (With H. A. Orengo, T. P. Leppard, E. Koparal, T. C. Wilkinson, M. Georgiadis, A. Krahtopoulou & J. M. Palet). 10 June 2021: Advances in archaeological survey. *Landscape Archaeology Conference 2020+1*, Online.

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Conference co-organizer (with F. C. Conesa, H. A. Orengo & C. A. Petrie). 29 February 2020: *Computational approaches to archaeological site detection and monitoring*. Cambridge University, UK. <https://archaeositedetection.wordpress.com/>

Member of the organization comitee. 17 May 2019: *IberoArchUK 2019. Ibero-British Archaeology*. Cambridge University, UK <https://iberoarchuk2019.wordpress.com>

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#### *Contributions in scientific meetings*

Mayoral, A., **Garcia-Molsosa, A.**, Ejarque, A., Georgiadis, M., Kallintzi, C., Kefalidou, E., Trasanis, G., Papadopoulos, N., Gaertner, V., Orengo, H. A., & Palet, J. M. (2023, novembre 26). A race to the sea? New geoarchaeological evidence to rethink the history of the ancient Abdera (Gr.) and its harbour [Talk]. *43rd Conference of the Association for Environmental Archaeology*, Tarragona, Spain.

Apostolou, G., Mayoral, A., Venieri, K., Dimaki, S., Georgiadis, M., **Garcia-Molsosa, A.**, & Orengo, H. A. (2023, novembre 25). Holocene alluvial dynamics and human settlement histories in the Xerolakkos catchment (Grevena, GR) [Talk]. *43rd Conference of the Association for Environmental Archaeology*, Tarragona, Spain.

Mayoral, A., **Garcia-Molsosa, A.**, Georgiadis, M., Papadopoulos, N., Kallintzi, C., Kefalidou, E., Trasanis, G., Ejarque, A., Orengo, H. A., & Palet, J. M. (2023, agost 31). A haven in the marshes: An integrated geoarchaeological approach of the Archaic and Classical harbour of ancient Abdera, Thrace, GR. [Talk]. *29th European Association of Archaeologist (EAA) Annual Meeting*, Belfast, UK.

Palet, J. M., Carbonell, A., **Garcia-Molsosa, A.**, Rodrigo, E., Ejarque, A., Mayoral, A., & Orengo, H. A. (2023, agost 31). Archaeomorphological survey, centuriated networks and the shaping of cultural landscapes: A case study in the hinterland of Emporion-Emporiae (North-eastern Catalonia) [Talk]. *29th European Association of Archaeologist (EAA) Annual Meeting*, Belfast, UK.

Carbonell, A., Pescini, V., Colominas, L., Gallego, A., Mayoral, A., **Garcia-Molsosa, A.**, Orengo, H. A., & Palet, J. M. (2023, agost 31). What does a roman do on top of that mountain? Microregional landscape analysis of land-use dynamics in the Eastern Pyrenees [Talk]. *29th European Association of Archaeologist (EAA) Annual Meeting*, Belfast, UK.

**Garcia-Molsosa, A.**, & Mayoral, A. (2023, august 11). Investigating Transported Mediterranean Landscapes: Interdisciplinary analysis of the territories of the Ionian settlements of Abdera (Thrace) and Emporion (Iberia) [Invited talk]. *Talks at the Klazomenai excavation archaeological base*, Urla, Turkey.

Conesa, F. C., Orengo, H. A., **Garcia-Molsosa, A.**, Abhayan, G. S., Rajesh, S. V. (5 April 2023). Mapping Indus Archaeology and Multi-Temporal Land Cover Trends in Semi-Arid Regions' [Talk]. *Computational Applications in Archaeology Conference (CAA2023)*, Amsterdam, Netherlands

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**Garcia-Molsosa, A.**, Mayoral, A., Orengo, H. A., Kallintzi, C., Georgiadis, M. and Kefalidou, E. (12 September 2022). Integration of Computational Methods in Archaeological Surveys: Experimenting with Digital Approaches in the Context of the Archaeological Project of Abdera and Xanthi (APAX) [Invited talk]. *Workshop Surveying Aegean Thrace in the Digital Era (επιφανειακες Ερευνες Στην Αιγαϊακη Θρακη Στην Ψηφιακη Εποχη)*. Online.

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Apostolou, G., Georgiadis, M., Orengo, H. A., **Garcia-Molsosa, A.**, Dimaki, S., Venieri, K., & Mayoral, A. (2021, December 2). Testing a multi-level extensive survey in a semi-mountainous landscape: The case of Grevena, NW Greece [Talk]. *41st International Mediterranean Survey Workshop*, Montpellier, France.

Apostolou, G., Orengo, H. A., **Garcia-Molsosa, A.**, & Berganzo-Besga, I. (2021, November 6). Artificial Intelligence and the archaeology of Greek landscapes [Talk]. *International Conference of Postgraduate Students of History and Archaeology 'Interpreting Identities in the Eastern Mediterranean and the Black Sea'*, Thessaloniki, Greece (online).

Palet, J. M., Pescini, V., Colominas, L., **Garcia-Molsosa, A.**, & Euba, I. (8 September 2021). Integrated Landscape Research in Ter High Mountain Valleys (eastern Pyrenees, Spain): Livestock, Settlement Dynamics and Land-Use in a Long-Term Perspective [Talk]. *Widening Horizons: 27th Annual Meeting of the European Association of Archaeologists*, Kiel, Germany (Online).

Conesa, F. C., Orengo, H. A., **Garcia-Molsosa, A.**, Green, A. S., & Petrie, C. A. (15 June 2021). Towards Big Earth Data: Cloud-computing workflows for the automated detection and monitoring of endangered archaeological sites [Talk]. *Computational Applications in Archaeology*, Limmassol, Cyprus (Online).

Green, A. S., Orengo, H. A., Alam, A., Conesa, F. C., **Garcia-Molsosa, A.**, Walker, J., Singh, R. N., & Petrie, C. A. (15 June 2021). How many hectares? Combining remote sensing, historical cartography, and survey data to rapidly categorize and assess the size of archaeological sites in South Asia [Talk]. *Computational Applications in Archaeology*, Limmassol, Cyprus (Online).

Apostolou, G., Orengo, H. A., **Garcia-Molsosa, A.**, & Berganzo-Besga, I. (2021, June 18). Towards a practical implementation of automated surface survey in Greece [Talk]. *Postgraduate conference 'Beyond identities: Alternative approaches to the archaeology of individuals and groups'*, Cambridge, UK (Online).

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Abdera and Xanthi: New techniques and data [Talk]. *Landscape Archaeology Conference 2021+1*, Online.

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Orengo, H. A., **Garcia-Molsosa, A.**, & Petrie, C. A. (10 June 2021). Some ideas on the potential of new multitemporal multisource remote sensing data for the development of synergistic approaches between archaeology and precision agriculture [Talk]. *Landscape Archaeology Conference 2021+1*, Online.

Palet, J. M., Ejarque, A., **Garcia-Molsosa, A.**, Rodrigo, E., Orengo, H. A., & Ortega, M. J. (9 June 2021). Integrated landscape analysis in the hinterland of Emporion-Emporiae (North-Eastern Catalonia) [Talk]. *Landscape Archaeology Conference 2021+1*, Online.

Palet, J. M., Pescini, V., Colominas, L., Fossati, M., **Garcia-Molsosa, A.**, Gallego-Valle, A., & Orengo, H. A. (9 June 2021). Livestock, transhumance and landscape change in the Eastern Pyrenees (high Ter valleys): An interdisciplinary and long-term research [Talk]. *Landscape Archaeology Conference 2021+1*, Online.

Orengo, H. A., **Garcia-Molsosa, A.**, & Conesa, F. C. (8 June 2021). Remote sensing within TwoRains: Pioneering multitemporal multisource automated methods for the large-scale analysis of the Indus Civilisation. [Talk]. *TwoRains Conference 2021*, Online.

**Garcia-Molsosa, A.** (18 March 2021). Historical mapping and Remote Sensing applications for the study of Historical landscape dynamics in the Indus Basin. Study cases in Punjab Province (modern Pakistan) [Invited talk]. *International Webinar on Indus Civilization*, University of Kerala, Online.

**Garcia-Molsosa, A.** (10 December 2019). New perspectives and old problems: Integrating computational approaches to archaeological field survey workflows [Invited Talk]. *CDAL Seminar Series*, McDonald Institute for Archaeological Research, Cambridge, UK.

Orengo, H. A., **Garcia-Molsosa, A.**, Conesa, F. C., & Petrie, C. A. (7 November 2019). As above so below: Artificial intelligence-based detection and analysis of archaeological sites and features at a continental scale [Talk]. *Artificial Intelligence, Machine Learning and Deep Learning in Archaeology*, British School at Rome (BSR) and ESA's European Space Research Institute (ESA/ESRIN), Rome, Italy.

Orengo, H. A., **Garcia-Molsosa, A.**, Conesa, F. C., Green, A. S., & Petrie, C. A. (21 October 2019). New Approaches to the Archaeology of the Indus Civilisation Using TanDEM-X in Combination with Multisensor Multitemporal Satellite Data and Machine Learning [Talk]. *TerraSAR-X / TanDEM-X Science Team Meeting 2019*, DLR Oberpfaffenhofen, Germany.

Orengo, H. A., **Garcia-Molsosa, A.**, Conesa, F. C., Green, A. S., Singh, R. N., & Petrie, C. A. (28 August 2019). Combining TanDEM-X with multi-temporal, multi-source

satellite data for the reconstruction of the Bronze Age landscapes of the Indus civilisation [Talk]. *IGARSS 2019*, Yokohama, Japan.

Ejarque, A., Julia, R., Riera, S., Palet, J. M., & **Garcia-Molsosa, A.** (2019, July 8). Landscape changes following Greek and Roman contacts and settlement in the coastal hinterland of Emporion-Emporiae (NE Spain) [Talk]. *The Mediterranean Palynological Societies Symposium 2019*, Bordeaux, France.

Orengo, H. A., **Garcia-Molsosa, A.**, Conesa, F. C., & Petrie, Cameron A. (28 June 2019). Multisensor multitemporal AI approaches to the detection and analysis of archaeological settlements at a continental scale [Invited talk]. *Seminar at the Computer Vision Center (UAB-CERCA)*, Barcelona, Spain.

**Garcia-Molsosa, A.** (17 May 2019). Look below by looking above: Contributions of the combination of aerial survey and computational methods for archaeological surveys [Talk]. *IberoArchUK 2019*, McDonald Institute for Archaeological Research, Cambridge, UK.

Conesa, F. C., Orengo, H. A., **Garcia-Molsosa, A.**, Green, A. S., & Petrie, C. A. (13 May 2019). Multi-temporal and multi-sensor data integration for the machine learning detection of archaeological mounds: Perspectives from South Asian archaeology [Talk]. *ESA Living Planet Symposium*, Milan, Italy.

**Garcia-Molsosa, A.**, Orengo, H. A., Polonio, T., & Palet, J. M. (10 April 2019). Archaeology of High-Mountain Pastoral Campsites in the High-Pyrenees [Invited talk]. *84th Annual Meeting Society for American Archaeology (SAA)*, Albuquerque, NM, US.

Orengo, H. A., Conesa, F. C., **Garcia-Molsosa, A.**, & Petrie, C. A. (27 March 2019). Applications of machine and deep learning for the identification and analysis of archaeological sites at a continental scale using 40 years of multi-source satellite data [Talk]. *Big Data in Archaeology: Practicalities and Possibilities*, McDonald Institute for Archaeological Research, Cambridge, UK.

Orengo, H. A., **Garcia-Molsosa, A.**, Conesa, F. C., & Petrie, Cameron A. (14 March 2019). Machine learning-based large-scale potsherd detection using drone high-resolution imagery: Towards an automated intensive survey method [Invited talk]. *ArchAIDE Project Final Conference*, Pisa, Italy.

Conesa, F. C., Orengo, H. A., **Garcia-Molsosa, A.**, & Petrie, C. A. (17 September 2018). The Cholistan Desert (Pakistan): EO-based approaches to investigate long-term land use and water management strategies [Poster]. *5Th Landscape Archaeology Conference*, Newcastle on Tyne, UK.

**Garcia-Molsosa, A.**, Orengo, H. A., Conesa, F. C., Green, A., & Petrie, C. (17 September 2018). Applications of multi-temporal data and cloud computing for the study of past settlement and landscape dynamics in the punjab region [Poster]. *5Th Landscape Archaeology Conference*, Newcastle on Tyne, UK.

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large-scale, multi-temporal and multi-source approach using cloud parallel computing [Talk]. *5Th Landscape Archaeology Conference*, Newcastle on Tyne, UK.

**Garcia-Molsosa, A.**, Ciurana, J., Oliver, J., Roig, J., Gallego-Valle, A., Gómez, R., Gómez, J., Polonio, T., & Giralt, S. (8 September 2018). Interdisciplinary approach to the archaeology, bioarchaeology and history of the rural churches of Aiguafreda and Valldaneu (Barcelona), 7th-12th C. AD [Talk]. *24th European Association of Archaeologists (EAA) Annual Meeting*, Barcelona, Spain.

Georgiadis, M., **Garcia-Molsosa, A.**, Kefalidou, E., & Kallintzi, K. (8 September 2018). Abdera, a Trade and Cultural Nexus Between the Aegean Sea and the Thracian Hinterland [Talk]. *24th European Association of Archaeologists (EAA) Annual Meeting*, Barcelona, Spain.

Krahtopoulou, A., Orengo, H. A., Frederick, C., Dimoula, A., Saridaki, N., **Garcia-Molsosa, A.**, & Kyrillidou, S. (7 September 2018). Re-discovering the neolithic landscapes of Western Thessaly, Central Greece [Talk]. *24th European Association of Archaeologists (EAA) Annual Meeting*, Barcelona, Spain.

**Garcia-Molsosa, A.**, Oliver, J., & Flórez, M. (6 September 2018). The structuring of a roman countryside: Road network, settlement patterns and ancient land surveying in the Congost and Mogent valleys (Barcelona) [Talk]. *24th European Association of Archaeologists (EAA) Annual Meeting*, Barcelona, Spain.

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Petrie, C. A., Singh, R. N., Alam, A., Bates, J., Baudouin, J. P., Ceccarelli, A., Chakraboti, S., Chakradari, S., Chowdhury, A., Dixit, Y., French, C. A. I., **Garcia-Molsosa, A.**, Giesche, A., Green, A. S., Green, L. M., Hodell, D. A., Jones, P. J., Lightfoot, E., Neogi, S., ... Walker, J. (2 July 2018). From Land, Water and Settlement to TwoRains: Progress in 2016, 2017 and 2018 [Talk]. *Twenty-fourth International Conference of the EASAA, European Association of South Asian Archaeologists*, Naples, Italy.

Palet, J. M., **Garcia-Molsosa, A.**, Olmos, P., & Polonio, T. (19 May 2017). Formes d'ocupació de l'espai al Pirineu Oriental: Dinàmiques històriques [Talk]. *Seminari internacional Ocupació humana i impacte ecològic als Pirineus. Mètodes i problemàtiques de la recerca arqueològica a l'alta muntanya*, Universitat. Autònoma de Barcelona. Bellaterra, Spain.

**Garcia-Molsosa, A.**, Orengo, H. A., Krahtopoulou, A., & Dimoula, A. (29 April 2017). The Kambos Project: Remote Sensing Applications and Archaeological Approaches for the Reconstruction of the Disappeared Cultural Record of the Western Thessalian Plain [Talk]. *82nd Meeting of Society for American Archaeology (SAA)*, Vancouver, Canada.

Palet, J. M., Olmos, P., **Garcia-Molsosa, A.**, Polonio, T., Orengo, H. A., & Riera, S. (28 April 2017). Occupation et anthropisation des espaces de haute montagne dans les vallées de Núria et Coma de Vaca (Pyrénées orientales, Catalogne): Résultats des recherches archéologiques et patrimoniales [Talk]. *Circulations montagnards, circulations européennes, 142 Congrès national des sociétés historiques et scientifiques*, Université de Pau et des pays de l'Adour. Pau, France.

Palet, J. M., Riera, S., Orengo, H. A., **Garcia-Molsosa, A.**, & Ejarque, A. (8 April 2017). Landscape Archaeology in Eastern Pyrenees high mountain areas (Segre & Ter valleys): Human activities in the shaping of Mountain Cultural Landscapes [Talk]. *The shaping of agro-pastoral landscapes in mountainous regions. Landscape Archaeology and interdisciplinary research strategies. 10th Visiting Scholar Conference at the Institute for European and Mediterranean Archaeology (State University of New York at Buffalo)*, Buffalo, US.

**Garcia-Molsosa, A.** (23 March 2017). The shaping of agro-pastoral landscapes in mountainous regions. Study cases in the North-East of the Iberian Peninsula The Cornell Institute of Archaeology and Material Studies (CIAMS) Ithaca on March 23, 2017, as a speaker in our spring lecture series. [Invited Talk]. *The Cornell Institute of Archaeology and Material Studies (CIAMS) Spring lectures seminar*, Ithaca, US.

Colominas, L., Orengo, H. A., **Garcia-Molsosa, A.**, & Palet, J. M. (22-25 August 2016). Grasslands, huts and sheep: Animal husbandry in the eastern Pyrenees during the Early Roman period. An interdisciplinary approach [Talk]. *4th International Landscape Archaeology Conference*, Uppsala, Sweden.

**Garcia-Molsosa, A.**, Polonio, T., Giralt, S., Oliver, J., Riera, S., & Palet, J. M. (22-25 August 2016). Farming (and fearing) the riverbed. An interdisciplinary study in the middle course of the Congost river (La Garriga, Barcelona) during the Holocene [Talk]. *4th International Landscape Archaeology Conference*, Uppsala, Sweden.

Orengo, H. A., **Garcia-Molsosa, A.**, Miret, M., Halstead, P., Riera, S., Valenzuela, S., Ejarque, A., Bosch, D., Salazar García, D. C., Muñoz, J., López, D., & Jornet, R. (22-25 August 2016). Pastoral impact and landscape shaping in coastal Mediterranean mountains: Rhythms, intensity and sociocultural factors [Talk]. *4th International Landscape Archaeology Conference*, Uppsala, Sweden.

Orengo, H. A., Krahtopoulou, A., Dimoula, A., **Garcia-Molsosa, A.**, Palaiochoritis, K., Papadias, Y., Saridaki, N., & Vliora, E. (22-25 August 2016). Reconstructing the Lost Prehistoric and Classical Landscapes of Western Thessaly, Central Greece, Through Combined Historic Aerial Photography, Remote Sensing, GIS and Archaeological Survey [Talk]. *4th International Landscape Archaeology Conference*, Uppsala, Sweden.

Palet, J. M., **Garcia-Molsosa, A.**, Orengo, H. A., Riera, S., Polonio, T., Euba, I., & Julià, R. (22-25 August 2016). Livestock activities in Eastern Pyrenees high mountains areas (Núria and Coma de Vaca valleys, Catalonia): The human shaping of a Cultural Landscape [Talk]. *4th International Landscape Archaeology Conference*, Uppsala, Sweden.

Palet, J. M., **Garcia-Molsosa, A.**, Orengo, H. A., & Polonio, T. (11 June 2016). Ocupacions ramaderes altimontanes a les capçaleres del Ter (Vall de Núria i Coma de Vaca, Queralbs): Resultats de les intervencions arqueològiques 2010-2015. *XIII Jornades d'Arqueologia de les comarques de Girona*, Banyoles, Spain.

**Garcia-Molsosa, A.**, Romero, M., & Oliver, J. (11 April 2016). Arqueología y TIC en un proyecto patrimonial para el desarrollo local: El caso de los dólmenes de la Serra de l'Arca (Aiguafreda, Parque Natural del Montseny). *RESCATE. Del registro estratigráfico a la sociedad del conocimiento: el patrimonio arqueológico como agente de desarrollo sostenible*, Códoba/ Puente Genil, Spain.

Servera, G., Vivó, M., **Garcia-Molsosa, A.**, Picornell-Gelabert, L., & Calvo, M. (2016). The creation of islandscapes in the Balearic Islands: The study-case of northern Minorca (Balearic Islands) [Talk]. *Islands: Isolation and connectivity. The Association for Environmental Archaeology Spring Conference*, Kirkwall, UK.

**Garcia-Molsosa, A.**, & Oliver, J. (2015). From foodscapes to concretescapes – through crisis landscapes. The irrigation systems of la Garriga (Barcelona), 12th—21st C. [Poster]. *Crossing Boundaries: the Creation of Foodscapes. AEA spring conference*, Nottingham, UK.

Palet, J. M., **Garcia-Molsosa, A.**, & Orengo, H. A. (1-3 October 2015). Els espais altimontans pirenaics a l'Antiguitat: 10 anys d'estudis en arqueologia del paisatge del GIAP-ICAC [Talk]. *1er Congrés Internacional d'Arqueologia Pirinenca. L'explotació dels recursos naturals al Pirineu oriental en època antiga*, Espai Ceretània, Bolvir, Spain.

Palet, J. M., Orengo, H. A., & **Garcia-Molsosa, A.** (23 February 2015). L'arqueologia del paisatge i l'estudi de l'ocupació ramadera d'espais altimontans pirinencs: Recerques microrregionals a l'Alt Segre i a les capçaleres del Ter [Talk]. *Seminari Internacional Estudis transdisciplinars sobre ramaderia i pastoralisme*, IPHES, Tarragona, Spain.

**Garcia-Molsosa, A.**, Flórez, M., Palet, J. M., & Giralt, S. (17 September 2014). Paths and settlements in a Roman rural landscape: A geo-archaeomorphological analysis in the Congost Valley (Barcelona, Spain) [Talk]. *3rd International Landscape Archaeology Conference*, Rome, Italy.

**Garcia-Molsosa, A.**, Oliver, J., & Jaime, M. (18 September 2014). The "Aiguafreda de Dalt" Project: An historical and archaeological research programme on sites, people and territories between Late Antiquity and the Middle Ages in a mountainous rural landscape (Aiguafreda, Montseny massif, Catalonia) [Poster]. *3rd International Landscape Archaeology Conference*, Rome, Italy.

**Garcia-Molsosa, A.**, Palet, J. M., & Orengo, H. A. (2014). Prospecciones arqueomorfológicas en llano y áreas de montaña. Experiencias del Grupo de Investigación en Arqueología del Paisaje (GIAP) del ICAC [Invited Talk]. *Dando sentido a la prospección arqueológica/ Making sense of archaeological survey*, Jaén, Spain.

**Garcia-Molsosa, A.**, & Flórez, M. (2014). Dinàmiques de poblament entorn a la conquesta romana. El cas de Samalús (Vallès Oriental) des de la perspectiva de l'arqueologia del paisatge [Talk]. *Seminari: Les estratègies d'ocupació dels territoris conquerits a les províncies hispanes els segles II-I aC: primers assentaments de control i models d'implantació*, ICAC, Tarragona, Spain.

**Garcia-Molsosa, A.**, Flórez, M., Lladó, M., Palet, J. M., & Giralt, S. (2013). Construcción y dinámicas de un paisaje antropizado durante la antigüedad: Estudio arqueológico y sedimentológico microrregional de un sector del llano prelitoral catalán (Samalús, Barcelona) [Talk]. *XVIII Congreso Internacional de Arqueología Clásica. Centro y periferia en el mundo clásico*, Mérida, Spain.

Palet, J. M., Orengo, H. A., Ejarque, A., **Garcia-Molsosa, A.**, Julià, R., Riera, S., Marco, J., & Montaner, J. (2013). Landscape dynamics and territorial organization in the Empordà littoral plain (North-Eastern Catalonia) from the Antiquity to the Medieval period: An integrated landscape analysis [Talk]. *XVIII Congreso Internacional de Arqueología Clásica. Centro y periferia en el mundo clásico*, Mérida, Spain.

Palet, J. M., Orengo, H. A., Ejarque, A., **Garcia-Molsosa, A.**, Julià, R., Riera, S., Marco, J., & Montaner, J. (2013). Dynamiques du paysage et organisation territoriale dans la plaine littorale de l'Emporda (Nord-est de la Catalogne) de l'Antiquité au haute Moyen Âge [Poster]. *XXXIVe Rencontres Internationales d'Archéologie et histoire d'Antibes*, Sophia-Antipolis, France.

Palet, J. M., Orengo, H. A., & **Garcia-Molsosa, A.** (2013). Explotación y ocupación de espacios altimontanos pirenaicos en época romana: Visiones desde la arqueología del paisaje [Talk]. *IV Convegno Internazionale di Studi Veleiati*, Lugagnano, Italy.

**Garcia-Molsosa, A.**, Flórez, M., Lladó, M., Palet, J. M., & Giralt, S. (November 2012). Una aproximació arqueològica als paisatges del massís del Montseny: Resultat de les campanyes de prospecció en espais supraforestals (Matagalls-pla de La Calma) i del peu del massís (Samalús). *VIII Trobades d'estudiosos del Montseny*, Diputació de Barcelona, Girona, Spain.

**Garcia-Molsosa, A.**, Lladó, M., Euba, I., Palet, J. M., & Giralt, S. (2012). Human Land Use Strategies in a Mediterranean Mid-Mountain Landscape (Montseny Massif, Barcelona). Analysing Human Landscape Impact through Archaeological and Geomorphological Analysis [Talk]. *2nd International Landscape Archaeology Conference*, Berlin, Germany.

Palet, J. M., Julià, R., Riera, S., Ejarque, A., Orengo, H. A., Miras, Y., **Garcia-Molsosa, A.**, Allée, P., Reed, J. M., Marco, J., Marquès, M. A., Furdada, G., & Montaner, J. (2012). Landscape systems and human land-use interactions in Mediterranean highlands and littoral plains during the Late Holocene: Integrated analysis from the

InterAmbAr Project (North-Eastern Catalonia) [Talk]. *2nd International Landscape Archaeology Conference*, Berlin, Germany.

Servera, G., Paradis Grenouille, S., Orengo, H. A., Julià, R., Allée, P., Miras, Y., Riera, S., Palet, J. M., **Garcia-Molsosa, A.**, & Bal, M.-C. (2012). Dynamique des pratiques territoriales et histoire de la végétation au Mont Lozère (Massif central, France) au cours des deux derniers millénaires. Étude pluridisciplinaire de la tourbière de Countrasts (1400 m) [Talk]. *Colloque international AFEQ Quaternaire n° 8. Variabilité spatiale des environnements quaternaires. Contraintes, échelles et temporalités*, Clermont-Ferrand, France.

**Garcia-Molsosa, A.**, Flórez, M., Lladó, M., Trullén, A., Palet, J. M., & Giralt, S. (2011). Settlement evolution, field systems and sedimentary processes in a Mediterranean mid-mountain (Montseny massif, Catalunya) [Poster]. *XXXIIes Rencontres Internationales d'archéologie et d'histoire d'Antibes: Variabilités environnementales, mutations sociales: natures, intensités, échelles et temporalités des changements*, Antibes, France.

Orengo, H. A., Palet, J. M., Riera, S., Ejarque, A., & **Garcia-Molsosa, A.** (2011). The diversity and complementary nature of mountain activities. Towards a characterization of mountain cultural landscapes [Invited Talk]. *International Workshop on Archaeology of European Mountain Landscapes Carved mountains. Engraved stones. Contributions to the environmental resources archaeology of the Mediterranean mountains*, Borzonasca, Italy.

Flórez, M., & **Garcia-Molsosa, A.** (5 May 2010). Poblament i estructuració del territori a la comarca del Vallès Oriental: Una proposta metodològica [Talk]. *III Jornadas de Jóvenes en Investigación Arqueológica (JIA 2010)*, UAB, Bellaterra, Spain.

**Garcia-Molsosa, A.** (2009). A cultural landscape Research in a Mediterranean mountain area. The "Massís del Montseny project" (Barcelona – Girona) [Poster]. *2e Workshop International d'Archéologie du Paysage des Montagnes Européennes. La construction des territoires montagnards. Exploitation des ressources et mobilité des pratiques*, Toulouse, France.

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## TEACHING EXPERIENCE

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**2022- . University Rovira i Virgili (URV), MA, Inter-University Master's Degree in Applied Classical Archaeology. Research and Transfer: Module Computational Archaeology** (3 ECTS). Lecturer and module coordinator.

**2020-2022. Open University of Catalonia (UOC), MA Ancient Mediterranean: Module Practical training in Landscape Archaeology** (5 ECTS). Lecturer and author of the teaching material.

**2019. Department of Archaeology. University of Kerala: International workshop on GIS, Remote Sensing and Geoarchaeology** (48 hours). Postgraduate course organized and imparted with F. C. Conesa, F. C & N. Égüez.

**2017. State University of New York at Buffalo, Departments of Anthropology and Classics:** Graduate course *Special Topics in Archaeology: Landscape Archaeology* (APY 572, 3 credits). Instructor.

**2013. Faculty of Arts, University of Nottingham:** Skills workshop (1 day) *Geographic Information Systems in the Humanities: Applications and Practice*. Post-doctoral lab assistant.

**2012. Universitat Rovira i Virgili & Institut Català d'Arqueologia Clàssica, MA Classical Archaeology:** Module *Landscape Archaeology*. Contributing lecturer

**2011. Centre d'Investigacions Arqueològiques d'Osona (CIAO):** *4th Scientific and technical course. New technologies in Archaeology: Recent trends and applications (IT and GIS)*. Contributing Lecture.

#### *PhD Supervision*

Supervisor of the PhD thesis of I. Mattuzzi: *Landscapes of Greek colonisation: an integrated archaeological approach of the compared territorial and landscape dynamics around the Ionian colonies of Abdera and Emporion (Thrace, Gr. and Catalunya, Sp.)*. AGAUR Joan Oró (FI-2023) Scholarship (Catalan Government R&D Agency competitive call for the recruitment of new research staff). 2023-2026

Co-Supervisor of the PhD thesis of G. Apostolou: *Advancing the Development of Automated Intensive Archaeological Survey: Application to Case Studies from Greece*. Universitat Rovira i Virgili. FI-AGAUR Scholarship (Catalan Government R&D Agency competitive call for the recruitment of new research staff). 2020-2024

Co-Supervisor of the PhD thesis of K. Venieri: *Advancing the Development of Automated Intensive Archaeological Survey: Application to Case Studies from Greece*. Universitat Rovira i Virgili. FI-AGAUR Scholarship (Catalan Government R&D Agency competitive call for the recruitment of new research staff). 2021-2024

Supervisor of a six month research stay by A. Brucato in the context of the PhD: *The eye of the machine in the time of travel: applicazione di algoritmi di machine learning ai dataset satellitari per il rilevamento di potenziali nuovi siti archeologici legati alla mobilità di gruppi preistorici e protostorici. Casi di studio tra Italia Meridionale e Sahara*. University of Bari Aldo Moro. PON for Research and Innovation 2014-2020/ ESF REACT-EU resources. 2023

#### *Master Thesis supervision*

Canudas, Pau. 'L'ús de La Teledetecció i Els SIG En l'estudi De la Paleogeomorfologia d'una Àrea Costanera. El Cas Del Territori de l'antiga Colònia Grega d'Abdera (Tràcia, NE Grècia)/ Using Remote Sensing and SIG to Study the Paleogeomorphology of a Coastal Area. The Case of the Territory of the Ancient Greek Colony of Abdera'. M. A. Thesis, Universitat Autònoma de Barcelona, 2022.

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## OTHER

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### *Other specialised training*

**2021. Training course on data management and open science:** Organised by AGAUR & Digital Curation Center (DCC, Edinburgh, UK). Online course (7.5 hours).

**2021. UAS Certificate Pilot (Category A1/A3).** European Union Aviation Safety Agency (EASA) & Agencia Estatal de Seguridad Aérea (AESA). Official certificate (Pilot ID: ESP-RP-0000018293)

**2018. ESA 8th Advanced Training Course on Land Remote Sensing:** Organised by European Space Agency. University of Leicester. UK National Centre for Earth Observation. Intense course (5 days).

**2018. Google Earth Engine User Summit 2018:** Organized by Google. Google Campus, Dublin, Ireland. Intense course (3 days).

**2008. Curs d'Introducció a l'Antropologia i la Paleopatologia:** Organised by Museu d'Arqueologia de Catalunya. Course (30h)

### *Contributions to dissemination actions*

**22 August 2019. Sutton Trust Summer School** (with A. Angourakis and E. Crema): *GIS and Computational Archaeology*. McDonald Institute for Archaeological Research, Cambridge, UK. (Seminar for future undergraduate students).

**5 August 2019. Peterhouse Archaeology Summer School** (with A. Angourakis and E. Crema): *GIS and Computational Archaeology*. McDonald Institute for Archaeological Research, Cambridge, UK. (Seminar for future undergraduate students).

**16 March 2019. Cambridge Science Festival** (with F. C. Conesa). *How satellites help us to investigate the past?* McDonald Institute for Archaeological Research, Cambridge, UK. (Public outreach activity)

**30 November 2017. Barferència** (with J. Oliver). *El llac de la Garriga. A la recerca d'un paisatge desaparegut*. Bar "la Mila", organised by the City council of La Garriga, Spain. (Talk)

**19 November 2014. III Cicle de xerrades de temes garriguencs:** *El territori garriguenc abans del terme de la Garriga: La prehistòria i l'Antiguitat*. City council of La Garriga, Spain. (Talk)

**29 November 2013. II Cicle de xerrades de temes garriguencs:** Ibers, romans i visigots a la vora del riu Congost. Un recorregut pel patrimoni arqueològic de La Garriga, Samalús i Llerona. City council of La Garriga, Spain. (Talk)

**October - December 2005. Beca per a la recuperació de la memòria històrica de l'Ametlla del Vallès.** City council of l'Ametlla del Vallès, Spain. (Part-time employment as interviewer for a historical memory project).

**November 2002 - April 2003. Exhibition: *Estius a Cardedeu. El modernisme d'estiueig al Vallès Oriental*:** Organised by the Museu-Arxiu Tomàs Balvey, Cardedeu, Spain. (Part-time employment for archive and oral history research for a museum exhibition)