

Arnau Garcia-Molsosa

Ramón y Cajal fellow

Catalan Institute of Classical Archaeology

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POSITIONS

2023- : 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)

EDUCATION

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.

RESEARCH EXPERIENCE

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 paisatge garriguencs desapareguts: El llac de la Garriga. (<http://www.cdh.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.

Participation in research projects:

Mapping Gujarat: application of experimental remote sensing approaches for the identification and analysis of cultural heritage. GARSAH. HORIZON-MSCA-2022-PF-01. PI: Ekta Gupta 181.152,96€

IArchMap (Project number 101067031). Intelligent Archaeological Mapping of Long-Term Settlement in Punjab. HORIZON-MSCA-2021-PF-01 165,312.96€. PI: Aftab Alam

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 (CLT009/22/00036) 01/01/2022 - 31/12/2025 Abel Gallego Valentina Pescini 24685,72€

(2022-25) Arqueologia del paisatge agrari, ocupació del territori i interaccions socioambientals al Baix Ter. PIs J-M Palet & A. Mayoral. Funding Generalitat de Catalunya. Ref: ARQ001SOL-147-2022. (30.595,99€).

Arqueologia de l'alta muntanya a les capçaleres del Segre – Ter (Cerdanya-Ripollès): territori i paisatge. (CLT009/22/00035) Valentina Pescini Arnau Carbonell

El territori de Cessetània occidental al primer mil·lenni aC: del bronze final a la romanització. (Projecte Quadriennal. Generalitat de Catalunya. CLT009/22/00012) M. Carme Belarte Joan Canela

TranScapes: Transported Mediterranean landscapes: diachronic integrated study of socio-environmental interactions and land-use changes at both sides of the Mediterranean (PID2021-127064NB-I00) 01/09/2022 - 31/08/2025 Josep Maria Palet Alfredo Mayoral Pascual

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-

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 -

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. Orengo (ICAC); A. Krahtopoulou (Ephorate of Antiquities of Karditsa, Hellenic Ministry of Culture) & S. Riera-Mora (University of Barcelona). 2014-

DarkRevisited (PID2019-107605GB-I00): 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 Competividad (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

PUBLICATIONS

Books

Garcia-Molsosa, A. (Ed.). (Forthcoming 2023). *Archaeology of Mountain Landscapes Interdisciplinary Research Strategies of Agropastoralism in Upland Regions*. State University of New York Press. ISBN: 9781438489872

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

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>

F. C. Conesa, **A. Garcia-Molsosa**, E. Angelats and H. A. Orengo, "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, 2022, 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. Pétilion, 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>

Garcia, A., Palet, J. M., & Flórez, M. (2016). Paths and settlement in a Roman rural landscape: An archaeomorphological analysis in the Congost Valley (Barcelona, Spain) / Trazas viarias y poblamiento en un paisaje rural romano: análisis arqueomorfológico en el valle del río Congost (Barcelona). In *Multi-, inter- and transdisciplinary research in Landscape Archaeology. Proceedings Landscape Archaeology Conference 2014*. VU E-Publishing. <https://dx.doi.org/10.5463/lac.2014.19>

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

Garcia, A., Flórez, M., & Palet, J. M. (2015). Arqueología del paisaje en el entorno de Lauro: Una aproximación microrregional a la construcción del territorio romano en el noreste de la Península Ibérica. *Zephyrus*, 76, 99–119. <https://doi.org/10.14201/zephyrus20157699119>

Orengo, H. A., Krahtopoulou, A., **Garcia-Molsosa, A.**, Palaiochoritis, K., & Stamati, A. (2015). Photogrammetric re-discovery of the hidden long-term landscapes of western Thessaly, central Greece. *Journal of Archaeological Science*, 64, 100–109. <http://dx.doi.org/10.1016/j.jas.2015.10.008>

Garcia, A., Flórez, M., Lladó, M., Palet, J. M., & Giralt, S. (2014). Construcción y dinámicas de un paisaje antropizado durante la antigüedad: Estudio arqueológico y sedimentológico microrregional de un sector del llano prelitoral catalán (Samalús, Barcelona). In *XVIII CIAC: Centro y periferia en el mundo clásico / Centre and periphery in the ancient world*. Mérida. 2014 (Museo Nacional de Arte Romano, Vol. 1).

Garcia, A., Flórez, M., Lladó, M., Palet, J. M., & Giralt, S. (2014). 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). In *VIII Trobada d'Estudiosos del Montseny*. (Diputació de Barcelona, pp. 373–382).

Palet, J. M., Orengo, H. A., Ejarque, A., **Garcia, A.**, Julià, R., Riera, S., Marco, J., & Montaner, J. (2014). Dynamiques du paysage et organisation territoriale dans la plaine littorale de l'Empordà (nord-est de la Catalogne) de l'Antiquité au Haut Moyen Âge. In *Implantations humaines en milieu littoral méditerranéen: Facteurs d'installation et*

processus d'appropriation de l'espace de la Préhistoire au Moyen Âge (pp. 389–398). Editions APDCA.

Palet, J. M., **Garcia, A.**, Orengo, H. A., Riera, S., Miras, Y., & Julià, R. (2014). Ocupación y explotación de espacios altimontanos pirenaicos en la antigüedad: Visiones desde la arqueología del paisaje. In *Atti del IV Convegno internazionale di studi veleiatì: Veleia-Lugagnano Val d'Arda, 20-21 settembre 2013* (pp. 455–470). Ante quem.

Palet, J. M., Ejarque, A., Orengo, H. A., Julià, R., Marco, J., Riera, S., **Garcia, A.**, & Montaner, J. (2014). Landscape dynamics and territorial organization in the empordà littoral plain (north-eastern catalonia) from the antiquity to the medieval period: An integrated landscape analysis. In *XVIII CIAC: Centro y periferia en el mundo clásico / Centre and periphery in the ancient world*. Mérida. 2014 (Museo Nacional de Arte Romano, Vol. 1).

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Garcia, A., Flórez, M., Lladó, M., Euba, I., Palet, J. M., & Giralte, S. (2012). Human Land Use Strategies in a Mediterranean Mid-Mountain Landscape (Montseny Massif, Barcelona). Analysing Human Landscape Impact through Archaeological and Geomorphological Analysis. *ETopoi. Journal for Ancient Studies*, 3, 1007–1012.

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CONFERENCES

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.

Session co-organizer (with H. A. Orengo, F. C. Conesa & C. A. Petrie). 10 June 2021: Archaeological site detection with machine learning and other computational approaches. *Landscape Archaeology Conference 2021+1*, Online.

Session co-organizer (with H. A. Orengo, A. S. Green, F. C. Conesa & C. A. Petrie). 8 June 2021: Hydrological and settlement landscapes. *TwoRains Conference 2021*, Online.

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>

Conference organizer. 8 April 2017: *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, US. <https://iema.buffalo.edu/conference/past-conferences/>

Contributions in scientific meetings

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

Kour, N., Conesa, F. C., **Garcia-Molsosa, A.**, Orengo, H. A. (5 April 2023). Loss of Heritage in Riverine Monsoonal Plains: Integration of Geospatial Legacy Data and Multi-Source Remote Sensing in Jammu, India [Talk]. *Computational Applications in Archaeology Conference (CAA2023)*, Amsterdam, Netherlands

Garcia-Molsosa, A., Orengo, H. A., Georgiadis, M., Dimakis, N., Motsiou, P., Mayoral, A., Kefalidou, E., Kallintzi, K. (4 April 2023). Machine Learning Approaches for a Multi-Scale and Multi-Source Detection and Characterization of Archaeological Sites: The Case of the Funerary Tumuli at Abdera (Thrace, Greece, 6th – 2nd C. BCE, Aprox.) [Talk]. *Computational Applications in Archaeology Conference (CAA2023)*, Amsterdam, Netherlands

Mayoral, A., Ejarque, A., **Garcia-Molsosa, A.**, Georgiadis, M., Apostolou, G., Gaertner, V., Kallintzi, C., Kefalidou, E., Orengo, H. A., & Palet, J. M. (10 September 2022). Waterscapes of Greek colonization: A geoarchaeological approach to socio-environmental interaction and coastal landscape changes around ancient Abdera (Thrace, Gr.) [Talk]. *LAC22-7th Landscape Archaeology Conference*, Iasi. Romania

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 Αιγαιακη Θρακη Στην Ψηφιακη Εποχη)*. Online.

Mayoral, A., Ejarque, A., **Garcia-Molsosa, A.**, Georgiadis, M., Apostolou, G., Gaertner, V., Kallintzi, K., Kefalidou, E., Palet, J. M., & Orengo, H. A. (2022). A geoarchaeological

tale of two cities: Palaeogeography, socio-environmental interaction and coastal landscape evolution around ancient abdera (thrace, gr.) [Talk]. *28th Annual Meeting of the European Association of Archaeologists*, Budapest, Hungary.

Georgiadis, M., **Garcia-Molsosa, A.**, Mayoral, A., Orengo, H. A., Ejarque, A., Kefalidou, E., & Kallintzi, K. (2022, July). The Ionian foundations of Abdera: Developing a multidisciplinary approach to explore the construction of colonial landscapes in the Mediterranean [Talk]. *Princeton Athens Center Workshop - Mediterranean Colonial Landscapes*, Athens, Greece.

Conesa, F. C., **Garcia-Molsosa, A.**, Orengo, H. A., & Angelats, E. (8 March 2022). Cloud-computing procedures for the automated detection and monitoring of archaeological sites [Talk]. *2022 IEEE Mediterranean and Middle-East Geoscience and Remote Sensing Symposium*, Online.

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).

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).

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).

Garcia-Molsosa, A., Orengo, H. A., Leppard, T. P., Murphy, E. A., Roppa, A., Georgiadis, M., Dimakis, N., Kefalidou, E., & Kallintzi, K. (10 June 2021). Towards a practical application of automated drone-based archaeological survey [Talk]. *Landscape Archaeology Conference 2021+1*, Online.

Georgiadis, M., **Garcia-Molsosa, A.**, Orengo, H. A., Kallintzi, K., Kefalidou, E., Ejarque, A., Mayoral, A., & Palet, J. M. (10 June 2021). The Archaeological Project at Abdera and Xanthi: New techniques and data [Talk]. *Landscape Archaeology Conference 2021+1*, Online.

Orengo, H. A., Conesa, F. C., **Garcia-Molsosa, A.**, Green, A. S., Lobo, A., & Petrie, C. A. (10 June 2021). Integrated machine/deep learning approaches for the remote detection of archaeological features of the Indus Civilisation [Talk]. *Landscape Archaeology Conference 2021+1*, Online.

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.

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.

Orengo, H. A., **Garcia-Molsosa, A.**, Green, A., Conesa, F. C., & Petrie, C. (17 September 2018). The reconstruction of the Bronze Age landscapes of South Asia: A 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.

Orengo, H. A., Crema, E., Wilkinson, T. C., Petrie, C. A., Leppard, T. P., Gjesfjeld, E., **Garcia-Molsosa, A.**, Kryzanska, M., & Conesa, F. C. (6 September 2018). Computational approaches to diverse, complex and large archaeological datasets: The experience of the CDAL at Cambridge [Talk]. *24th European Association of Archaeologists (EAA) Annual Meeting*, Barcelona, Spain.

Palet, J. M., **Garcia-Molsosa, A.**, Ejarque, A., Rodrigo, E., Ortega Pérez, M. J., Orengo, H. A., & Riera, S. (6 September 2018). Landscape changes, settlement and centuried systems in the hinterland of Emporion-Emporiae (North-Eastern Catalonia) [Talk]. *24th European Association of Archaeologists (EAA) Annual Meeting*, Barcelona, Spain.

Petrie, C. A., Singh, R. N., Alam, A., Bates, J., Baudouin, J. P., Ceccarelli, A., Chakraborti, 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 mountain 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*, Códroba/ Puente Genil, Spain.

Servera, G., Vivó, M., **Garcia-Molsosa, A.**, Picornell-Gelabert, L., & Calvo, M. (2016). The creation of landscapes 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 crisiscape. 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.

TEACHING EXPERIENCE

2023-. State University of New York at Buffalo, Departments of Anthropology and Classics. Study abroad program (organized with the Catalan Institute of Classical Archaeology) *Cultural Heritage: From classic ruins to living landscape* (APY 321/515, 3 Credits). Contributing lecturer and contact point in ICAC.

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

2020- . Open University of Catalonia (UOC), MA Ancient Mediterranean: Module Practical training in Landscape Archaeology (5 ECTS). Lecturer and author of the 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). 2020-2023

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

Master Thesis supervisi3n

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.

OTHER

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)