

Hector A. ORENGOhorengo@icac.cat**Current position**

01/12/2022 - present: ICREA Research Professor at the Catalan Institute of Classical Archaeology.

Institutional roles

01/01/2023 - present: Research Coordinator, Catalan Institute of Classical Archaeology.

01/09/2019 - present: Co-director of the Landscape Archaeology Research Group (GIAP).

Honorary positions/memberships:

- Honorary Research Associate, McDonald Institute for Archaeological Research, University of Cambridge (from 04/12/2019).
- Member of the Trinity College Post-Doctoral Society (2016-8).
- Founding member of the Cambridge Computational and Digital Archaeology Laboratory (CDAL). Since 2016.
- Visiting lecturer at the Department of History and Art History, Rovira i Virgili University (Tarragona, Spain). Since 2012.
- Founding member of the Landscape Archaeology Research Group (GIAP). Since 2009.

Education

- 2010 PhD in Classical Archaeology with Honours (Cum Laude). Catalan Institute of Classical Archaeology, Rovira i Virgili University, Tarragona, Spain.
- 2007 DEA with maximum qualification (equivalent to a Master's Degree). Catalan Institute of Classical Archaeology, Rovira i Virgili University, Tarragona, Spain.
- 2005 Licenciatura in History (equivalent to Bachelor Degree), specialised in Archaeology and Ancient History. University of Valencia, Spain.

Post-doctoral Research Positions

- **30/03/2018 – 30/11/2022:** Ramón y Cajal researcher, Catalan Institute of Classical Archaeology.
- **29/03/2016 – 29/03/2018:** Research Associate, McDonald Institute for Archaeological Research, University of Cambridge.
- **01/05/2014 – 28/03/2016:** Marie Curie Intra-European Fellow (IEF) in the Department of Archaeology of the University of Sheffield.
- **01/07/2012 – 30/04/2014:** Nottingham Advance Research Fellow (NARF) in the Department of Archaeology of the University of Nottingham.
- **01/04/2011 – 30/09/2011:** Aide Regionale à la Recherche du Conseil Régional du Limousin to conduct archaeological fieldwork and GIS-based environmental modelling as a member of the GEOLAB (CNRS, UMR 6042) in the international research project 'Pratiques et mobilités territoriales sur le mont Lozère depuis le Néolithique' (Human practices and mobility at the Mont Lozère after the Neolithic).

Research experience

Direction/supervision of competitively funded projects

Total amount of direct funding: € 3,376,600.36

Total amount of funding including projects with Co-I roles: € 7,374,835.44

- Contract for the development of experimental site detection deep learning-based algorithms with the company Endesa (ENEL Green Power España) for a total value of **€136,962.52**
- Co-Investigator of the project Mapping the Archaeological Pre-Columbian Heritage in South America (MAPHSA). Funded by the Arcadia Fund with **€1,900,000** for the years 2023-25. Direct allocation of **€135,475**
- Supervisor of the Juan de la Cierva - Formación postdoctoral project (Spanish Ministry of Science, Innovation and Universities project code: FJC2021-047943-I) on the Landscape archaeology of mountain areas (2022-2025). **€64,800**
- Co-supervisor (with A. Livarda) of PlantNetGem (European Research Area HORIZON-MSCA-2021-PF-EF proposal number: 101063192): Exploring the process of urbanisation in the Roman provinces of Germania through the study of food plant commerce (2022-2024). **€181,152.96**
- Co-supervisor (with A. Livarda) of NetFoodIt (European Research Area HORIZON-MSCA-2021-PF-EF proposal number: 101065142): Networking food plant imports in Roman Italy (2022-2024). **€165,312.96**
- Supervisor of UnderTheSands (European Research Area HORIZON-MSCA-2021-PF-EF proposal number: 101062705): Ancient irrigation detection and analysis using advanced remote sensing methods (2022-2024). **€181,152.96**
- Co-supervisor (with F.C. Conesa) of SIGNATURE (European Research Area HORIZON-MSCA-2021-PF-EF proposal number: 101067100): Mapping endangered cultural soils in post-conflict regions through Big Earth Observation Data, artificial intelligence and geoarchaeological signatures (2022-2024). **€181,152.96**
- Co-supervisor (with A. Garcia-Molsosa) of IArchMap (European Research Area HORIZON-MSCA-2021-PF-EF proposal number: 101067031): Intelligent Archaeological Mapping of Long-Term Settlement in Punjab (2022-2024). **€165,312.96**
- Supervisor of ArchAI (Agència de Gestió d'Ajuts Universitaris i de Recerca de la Generalitat de Catalunya, Beatriu de Pinós MSCA Co-fund project: 2020 BP 00203): Automated detection and monitoring of endangered archaeological sites at global scales using Big Earth Data, cloud-computing workflows and Artificial Intelligence (2022-2025). **€144,300**
- Supervisor of the Juan de la Cierva Incorporación postdoctoral project (Spanish Ministry of Science, Innovation and Universities project code: IJC2020-045609-I): Landscape Geoarchaeology (2021-2024). **€97,800**
- Supervisor of STAR-AGESS (European Research Area H2020-MSCA-IF-2020 proposal number: 101026674): Spatio-Temporal Analysis of Ritual and Ancient Greek Experience of Sacred Spaces (2022-2024). **€120,699.36**
- Co-Investigator of Mapping Archaeological Heritage in South Asia (MAHSA) funded with **\$2,172,913** by the Arcadia Fund for the years 2020-2022. Direct allocation of **£75,970 (€85,086.4)** at the moment of the signature of the agreement in January 2021).
- PI of DIASur (Ayudas Fundación BBVA a Equipos de Investigación Científica 2019): 'Prospección arqueológica inteligente sobre plataforma dron / Drone-based Intelligent Archaeological Survey (30/04/2020-30/04/2022). **€74,189.69**
- Supervisor of iShape3DSeed (European Research Area H2020-MSCA-IF-2019 proposal number: 892502): Creating a novel, innovative toolkit for the identification of agricultural management regimes in the past using seed shape (2020-2022). **€172,932.48**
- Co-Applicant (main applicant Prof. David Thomas, University of Oxford) of 'Holocene socio-environmental relationships in the Indus Valley'. Leverhulme Research Project Grant, project code: RPG-2019-392 (01/2020-

06/2023, 42 months). **£282,846 (€330,930** at the moment of the award notification the 28th of November 2019).

- Supervisor of TrackSherd (Agència de Gestió d'Ajuts Universitaris i de Recerca de la Generalitat de Catalunya, Beatriu de Pinós MSCA Co-fund project: 2018 BP 00208): Towards an automated archaeological surface survey: development of machine and deep learning-based methods for the automated identification and classification of potsherds in subcentimetric drone-acquired imagery (2020-2023). **€144,300**
- Supervisor of the Juan de la Cierva Incorporación Project (Spanish Ministry of Science, Innovation and Universities project code: IJC2018-038319-I): Automated machine learning applications in landscape archaeology (2020-2023). **€93,000**
- Co-PI with J.M. Palet of Transported Mediterranean landscapes: an integrated analysis of long-term land-use dynamics at both sides of the Mediterranean, TransLands. Spanish Ministry of Science, Innovation and Universities project code: PGC2018-093734-B-I00 (2019-21). **€95,590**
- Supervisor of YARNSCAPE (European Research Area H2020-MSCA-IF-2018 proposal number: 840892): Ecological Economies of Ancient Textiles (2020-2022). **€172,932.48**
- Supervisor of TransMed (European Research Area H2020-MSCA-IF-2018 proposal number: 839650): Transported Landscapes of Greek Mediterranean Colonisation (2019-2022). **€241,398.72**
- PI of the project 'Espais agraris i ocupació del territori a la plana de l'Empordà: arqueologia d'un paisatge cultural'. Projecte Quadrienal CLT009/18/00097, Departament de Cultura de la Generalitat de Catalunya. (2018-2021). **€9,217.2**
- Ramón y Cajal Fellowship. Spanish Ministry of Science, Innovation and Universities project code: RYC-2016-19637 (2018-2023). **€308,600**
- PI of the TanDEM-X Science Digital Elevation Models call of the German Aerospace Center (DLR) 'Water availability and long-term human occupation in the Indus Civilisation' (2017-8). 9 TanDEM-X (12 m/cell) tiles of 1° x 1°, with a commercial value of €772,959 (not counted as direct funding).
- Co-director with A. Krahtopoulou and S. Riera of 'Long Time, No See: Land Reclamation and the Cultural Record of Central-Western Plain of Thessaly' project (2014-8). Funded by the Institute for Mediterranean Prehistory (INSTAP). **\$56,244** (5 yearly applications last one awarded 13th of February 2018, the total amount equals **€48,258** according to currency exchange rates when awards were notified).
- Co-director with A. Livarda of 'The Seeds of Commerce' project (2013-6).
- Co-director with R. Albiach of La Carència (Valencia, Spain) Iron Age Oppidum project (2014-5) funded by the Generalitat Valenciana. **€28,000**
- PI with P. Halstead (Supervisor) of the MSCA-IF project 330098 'HumanScapes: the Origins of Intensive Pastoralism and the Creation of Cultural Landscapes in North-Eastern Spain' (2014-6). **€221,606.40** and the Departament de Cultura de la Generalitat de Catalunya with **€5,007.31**.
- Director of VaLandPro, Valentia Landscape Project (2012-4) funded by a Nottingham Advance Research Fellowship (NARF) of the University of Nottingham. **£83,000** (equals **€102,090** at the start of the project the 1st of July 2012).

Participation in other projects

- Member of the International Thematic Network (ITN) PROSPECT directed by the University of Ghent (PI: Philippe De Smedt), Belgium.
- Associated researcher of TwoRains ERC Consolidator Grant (ERC 648609). PI: Cameron A. Petrie (U. of Cambridge).

- Archaeological Project at Abdera and Xanthi (APAX). PIs: K. Kallintzi (Ephoria of Xanthi (Thrace, north-eastern Greece), E. Kefalidou (National and Kapodistrian University of Athens) and M. Georgiadis (ICAC).
- Member of Arkwork Cost Action (CA15201). PI: Isto Huvila (Uppsala University).
- Training team member of H2020-MSCA-IF-2016 WaMStrIn (Grant agreement ID: 746446). Supervisor: Cameron A. Petrie (U. of Cambridge). Fellow: Arnau Garcia-Molsosa (U. of Cambridge).
- Member of the advisory panel of ZooMWest ERC Starting Grant (ERC 716298). PI: Silvia Valenzuela-Lamas (IMF-CSIC).
- Training team member of H2020-MSCA-IF-2017 MarginScapes (Grant agreement ID: 794711). Supervisor: Cameron A. Petrie (U. of Cambridge). Fellow: Francesc Cecilia Conesa (U. of Cambridge).
- Director of the landscape section of *Palaikastro* (Crete, Greece) Bronze Age project (2012-6).
- Director of the Pastoral Archaeology section of the project *Pratiques et mobilités territoriales sur le Mont Lozère* (Massif Central, France) depuis le Néolithique (2010-2).
- Director of the landscape section of La Carència (Valencia, Spain) Iron Age Oppidum project (2009-14).

Awards

- Journal of Archaeological Science and Society for Archaeological Sciences Emerging Investigator Award for 2019 for the paper “A brave new world for archaeological survey: Automated machine learning-based potsherd detection using high-resolution drone imagery”. The panel commended the visionary combination of drone-based photogrammetry, machine learning and parallel computing in an open source environment, with the potential to revolutionise traditional field survey methods.

Teaching experience

2017 University of Cambridge, Department of Archaeology

- Archaeology in Action, undergraduate level (contributing lecturer).

2014-2016 University of Sheffield, Department of Archaeology

- GIS and Remote Sensing in Archaeology, MA in Landscape Archaeology, (coordinator).
- Mediterranean Landscapes (contributing lecturer)
- Rethinking the Ancient Economy, MA level (contributing lecturer).
- Heritage, History & Identity, MA in Cultural Heritage Management (contributing lecturer).
- Decoding the Landscape: integrated methods in landscape archaeology, undergraduate level (contributing lecturer).

2014 Invited Lecturer at the Specialised International Master course ‘Archaeology from the Sky’ organised by the **University of Leiden** and the **Royal Dutch Institute in Rome**.

2014 Invited series of lectures at the **Department of Prehistory Ancient History and Archaeology** of the **University of Barcelona** (24hrs in total) on the application of GIS to Archaeological research.

2013-14 University of Sheffield, Department of Archaeology

- Rethinking the Ancient Economy, MA level (contributing lecturer).
- Heritage, History & Identity, MA in Cultural Heritage Management (contributing lecturer).

2013-14 University of Nottingham, Department of Archaeology

- Commensal Politics: Food, Plants and Social Change, BA/BSc level (contributing lecturer).
- Archaeology in the UK, BA/BSc level (contributing lecturer).

2012-13 University of Nottingham, Department of Archaeology

- GIS and Remote Sensing in Archaeology, Postgraduate course (convenor).
- Environmental Archaeology, BA/BSc level (contributing lecturer).
- Research methods in Archaeology, MA/MSc level (contributing lecturer).
- Sustainability in the Arts and Humanities, BA level (contributing lecturer).

2011-12 University of Nottingham, Department of Archaeology

- Research methods in Archaeology, MA/MSc level (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 lecturer).

2008 to 2010: Contributing lecturer for the 'International Seminars on Classical Archaeology', taught at the Catalan Institute of Classical Archaeology. The topics I have covered so far include: heritage management, landscape archaeology, cultural landscapes, GIS, remote sensing, water management and palaeoenvironmental reconstruction.

2008 Rovira i Virgili University, Department of History and Art History

- Landscape Archaeology, MA on Classical Archaeology (contributing lecturer).

2007 Autonomous University of Barcelona (Spain), Department of Antiquity and Medieval Sciences

- Digital Archaeology: the application of GIS to archaeological research, MA on Classical Archaeology (convenor).

2007 University of Barcelona, Department of Prehistory Ancient History and Archaeology

- Landscape Archaeology, BA degree on History (final year level) (contributing lecturer).

2007 Rovira i Virgili University, Department of History and Art History

- Landscape Archaeology, MA on Classical Archaeology (contributing lecturer).
- Digital Archaeology, MA on Classical Archaeology (contributing lecturer).

2006 Autonomous University of Barcelona, Department of Antiquity and Middle Age Sciences

- Digital Archaeology: the application of GIS to archaeological research, MA on Classical Archaeology (convenor).

2005 Kingston University, Department of Criminology and Sociology

- Forensic Archaeology, BA in Criminology (invited lecturer).

Supervision of researchers

Postdoctoral researchers supervision

- Supervisor of Pangambam Sendash Singh, a postdoctoral position funded by the Arcadia Fund as part of the MAHSA project (2022-2024).
- Supervisor of the Juan de la Cierva - Formación postdoctoral project (Spanish Ministry of Science, Innovation and Universities project code: FJC2021-047943-I) on the Landscape archaeology of mountain areas. Fellow: Dr Faidon Moudopoulos-Athanasίου (2022-2025).
- Co-supervisor (with A. Livarda) of the project PlantNetGem (European Research Area HORIZON-MSCA-2021-PF-EF proposal number: 101063192): Exploring the process of urbanisation in the Roman provinces of Germania through the study of food plant commerce. Fellow: Dr Patricia Vandorpe (2022-2024).
- Co-supervisor (with A. Livarda) of the project NetFoodIt (European Research Area HORIZON-MSCA-2021-PF-EF proposal number: 101065142): Networking food plant imports in Roman Italy. Fellow: Dr Federica Riso (2022-2024).
- Supervisor of the project UnderTheSands (European Research Area HORIZON-MSCA-2021-PF-EF proposal number: 101062705): Ancient irrigation detection and analysis using advanced remote sensing methods. Fellow: Dr Nazarij Buławka (2022-2024).
- Co-supervisor (with F.C. Conesa) of the project SIGNATURE (European Research Area HORIZON-MSCA-2021-PF-EF proposal number: 101067100): Mapping endangered cultural soilscares in post-conflict regions through Big Earth Observation Data, artificial intelligence and geoarchaeological signatures. Fellow: Dr Sayantani Neogi (2022-2024).
- Co-supervisor (with A. Garcia-Molsosa) of the project IArchMap (European Research Area HORIZON-MSCA-2021-PF-EF proposal number: 101067031): Intelligent Archaeological Mapping of Long-Term Settlement in Punjab. Fellow: Dr Aftab Alam (2022-2024).
- Supervisor of the project ArchAI (Agència de Gestió d'Ajuts Universitaris i de Recerca de la Generalitat de Catalunya, Beatriu de Pinós MSCA Co-fund project: 2020 BP 00203): Automated detection and monitoring of endangered archaeological sites at global scales using Big Earth Data, cloud-computing workflows and Artificial Intelligence. Fellow: Dr Francesc C. Conesa (2021-2024).
- Supervisor of the Juan de la Cierva Incorporación postdoctoral project (Spanish Ministry of Science, Innovation and Universities project code: IJC2020-045609-I) Landscape Geoarchaeology. Fellow: Dr Alfredo Mayoral (2021-2024).
- Supervisor of the project STAR-AGESS (European Research Area H2020-MSCA-IF-2020 proposal number: 101026674): Spatio-Temporal Analysis of Ritual and Ancient Greek Experience of Sacred Spaces (2022-2024). Fellow: Dr Efrosyni Boutiskas (2022-2024).
- Supervisor of the project iShape3DSeed (European Research Area H2020-MSCA-IF-2019 proposal number: 892502). Fellow: Dr Meltem Cemre Üstünkaya (2020-2022).
- Supervisor of the postdoctoral placement of Dr. Alfredo Mayoral at the Catalan Institute of Classical archaeology (03 of February 2020 – 30 of March 2021).
- Supervisor of the postdoctoral fellowship 'Beatriu de Pinós' MSCA Co-fund (2018 BP 00208). Fellow: Dr Arnau Garcia-Molsosa (2020-2023).
- Supervisor of the postdoctoral fellowship 'Juan de la Cierva Incorporación' (IJC2018-038319-I). Fellow: Dr Francesc C. Conesa (2020-2023).
- Supervisor of the project YARNSCAPE (H2020-MSCA-IF-2018 proposal number: 840892). Fellow: Dr Toby C. Wilkinson (2020-2022).
- Supervisor of the project TransMed (H2020-MSCA-IF-2018 proposal number: 839650). Fellow: Dr Merkourios Georgiadis (2019-2022).

PhD supervision

- Co-supervisor of the PhD thesis of Alexandra Kriti (ICAC-URV) 'Feeding the Gap: A contemporary cultivation experiment to explore new methodologies for the identification of agricultural practices in the past', 2021-2024.
- Advisor of the PhD thesis of Gerasimos Trasanis (National & Kapodistrian University of Athens) 'Archaeology of mountainous landscape: settlements, fortified sites and economy at Grevena prefecture during the Antiquity', 2022-2025.
- Main supervisor of the PhD thesis of Konstantina Venieri (ICAC-URV) 'Computational approaches to the long-term reconstruction of past Thessalian landscapes' with a FI scholarship from the AGAUR, Catalan Autonomous Government (2021-2024).
- Co-supervisor of the PhD thesis of Arnau Carbonell-Puigventós (ICAC-URV) 'Estructuració del territori i dinàmiques d'ocupació dels espais altimontans pirinencs orientals. Un estudi arqueomorfològic entre la plana de la Cerdanya i l'alta muntanya' with a FPI scholarship from the Spanish Ministry of Science, Innovation and Universities (2020-2024).
- Main supervisor of the PhD thesis of Giannis Apostolou (ICAC-URV) 'Advancing the development of automated intensive archaeological survey: application to case studies from Greece' with a FI scholarship from the AGAUR, Catalan Autonomous Government (2020-2023).
- Main supervisor of the PhD thesis of Iban Berganzo (ICAC - University Rovira i Virgili) 'Development of new Machine Learning and Deep Learning methods for the detection of archaeological sites using satellite Big Data' on the application of Artificial Intelligence to the detection of archaeological using large-datasets of satellite imagery (2019-2021).
- Advisor of the PhD thesis of Friederike K. Juercke (University of Cambridge) 'Modelling Movement across the Iranian Plateau' on the application of computational mobility models to the study of the development of urbanism in relation to trade in Iran. Main director: Cameron Petrie.
- Co-supervisor of the PhD thesis "Arqueologia dels paisatges culturals del massís del Montseny. Dinàmiques històriques de la prehistòria a l'edat mitjana" (Archaeology of the Montseny Massif Cultural Landscapes. Historic Dynamics from the Prehistory to the Medieval Period) by Arnau Garcia-Molsosa at the University Rovira i Virgili, Tarragona (Spain). The thesis was awarded cum laude the 29th of October 2013.
- Co-supervisor of the PhD thesis "Anàlisis territorial de la plana de València: estudi arqueomorfològic, ocupació del territori i dinàmiques del paisatge de l'antiguitat a l'edat mitjana" (Analysis of the territory of the plain of Valencia: archaeomorphology, territorial settlement practices and landscape dynamics from Antiquity to the Middle Ages) by Maria Jesús Ortega-Pérez at the University Rovira i Virgili, Tarragona (Spain). The thesis was awarded cum laude the 29th of September 2017.

Academic administration

- Research Coordinator at the Catalan Institute of Classical Archaeology (from 2022).
- International Coordinator at the Catalan Institute of Classical Archaeology (from 2020).
- Member of the Computing Committee (from 2018) of the Catalan Institute of Classical Archaeology
- Member of the Editorial Committee (from 2018) of the Catalan Institute of Classical Archaeology
- Member of the Learning & Teaching Committee (academic course 2014-15) of the Department of Archaeology of the University of Sheffield.

Other esteem indicators

Commissions of trust

- Section Editor for Landscape Archaeology in the journal Land (from 2022)
- Recommender for PCI Archaeology (Peer Community In Archaeology), with a similar role to that of a journal editor: handling preprints, finding reviewers, collecting reviews, taking editorial decisions based on reviews (from 2020).
- Member of the Editorial Board of the journal Geographies (from 2020)
- Member of the Scientific Committee of the journal Archeologica Data (from 2020)
- Member of the Editorial Board of the journal of Open Archaeology Data (from 2019)
- Member of the Reviewer Board of the journal Remote Sensing (from 2019)
- Member of the Computer Applications and Quantitative Methods in Archaeology (CAA) Scientific Committee (2016 to 2021).
- Member of the CAA Review College (2012 to 2021).

Invited speaker

- Keynote speaker for the conference 'Mapping the past, plotting the future (of archaeology). GIS in Greek archaeology: maturity and implementation' organised by the AeGIS Athena Research Center. Athens 30th of March 2023.
- Invited Workshop presentation 'Nuevas tendencias en arqueología computacional' at the 2^o Encuentro de Reflexión Estratégica (ERE) de la Red Conexión Arqueología / ArchaeologyHub.CSIC. Desafíos científicos e interdisciplinariedad: pensando la arqueología del futuro. Organised by the Institució Milà i Fontanals, CSIC, Barcelona, 27-29th of June 2022.
- Invited workshop presentation 'Current computational approaches to archaeological research' at the Archaeological Open-Air Museums and digitisation (Retold 2020-2024, Creative Europe) workshop. Autonomous University of Barcelona, 7th and 8th of June 2022.
- Invited lecture 'Applications of machine learning for archaeological purposes' within the module Elementi di Intelligenza Artificiale, Laurea triennale in Matematica, Dipartimento di Ingegneria dell'Informazione e Scienze Matematiche, Università di Siena. 26th of April 2022.
- Invited research seminar 'Remote sensing and computational approaches to site detection and landscape reconstruction in the Aegean' at the Aegean Archaeology Group of the McDonald Institute for Archaeological Research, University of Cambridge, UK. 22nd of February 2022.
- Invited workshop presentation with A. Livarda 'Combining computational analysis with archaeobotany: applications and implications for Roman archaeology'. Methodisch-theoretisches Grundgerüst: Soziale Netzwerkanalyse, Archäo-Informatik und Naturwissenschaften im Zusammenspiel mit Wirtschaftsarchäologie. Organised by the German Archaeological Institute (DAI). 23rd of November 2021.
- Invited workshop presentation with Livarda, A., Orengo, H.A., Cañellas-Boltà, N., Riera Mora, S., Picornel-Gelabert, Ll. and Tzevelekidi, V. 'Mediterranean polyculture revisited: a re-examination of prehistoric cereals, grape and olive at the area of Palaikastro in the east of Crete' at the workshop 'Society and Environment in Bronze Age Crete. Recent Geoarchaeological Researches', organized by the French School at Athens (EFA), Laboratoire de Géographie Physique (LGP) and Archéologies et Sciences de l'Antiquité (ARSCAN), 16 November 2021.
- Invited research seminar 'Machine learning applications to archaeological site detection: current approaches and future perspectives'. Department of Archaeology, University of Exeter. 21st of October 2021.

- Invited workshop presentation with F.C. Conesa and A. Garcia-Molsosa 'Not just CORONA. Automated integrative approaches to the large-scale detection of archaeological features' at the ANEE Workshop: CORONA Satellite Images in Archaeological Remote Sensing. An Innovative Approach to Archaeological Survey. Organised by the Ancient Near Eastern Empires Centre of Excellence, University of Helsinki. 10th - 11th of May 2021.
- Invited virtual seminar 'Computational Archaeology, new developments and future prospects' at the Digital Past Seminars, Aristotle University of Thessaloniki. 17th of April 2021.
- Invited talk 'Multitemporal and multisource machine learning approaches to the detection of archaeological sites over large areas' at the International Virtual Geoscience Colloquium. Organised by the Department of Geology and Environmental Science, Christ College Autonomous, Thrissur, Kerala, India in collaboration with Leibniz Institute for Applied Geophysics, Hannover, Germany, and the University of Zululand, KwaDlangezwa, South Africa. November- December, 2020 (delivered 1st of December).
- Invited presentation with A. Livarda 'Agriculture and diet in the Iron Age Aegean: new approaches' at the 'Archaeobotany in Greece meeting', Ecole française d'Athènes, Athens (Greece), 10th of November 2020.
- Invited plenary talk at the 1st TIR-FOR SYMPOSIUM. From territory studies to digital cartography. 26th - 27th of October, 2020. Institut d'Estudis Catalans, Barcelona.
- Invited research seminar 'Airborne and satellite-based landscape archaeology in Greece: new methods and future research' at the Department of Archaeology of the University of Sheffield, UK. 2nd of March 2020.
- Invited presentation 'New perspectives and old problems: Integrating computational approaches to archaeological field survey workflows' at the Computational and Digital Archaeology Lab seminar series (McDonald Institute for Archaeological Research, University of Cambridge) with A. Garcia-Molsosa (presenter and first author) and F.C. Conesa. December 10th 2019, Cambridge, UK.
- Invited presentation 'New Approaches to the Archaeology of the Indus Civilisation Using TanDEM-X in Combination with Multisensor Multitemporal Satellite Data and Machine Learning' with Garcia-Molsosa, A.; Conesa, F.C.; Green, A.S. and Petrie, C.A. at *TerraSAR-X / TanDEM-X Science Team Meeting 2019*, 21st to 24th of October 2019, Oberpfaffenhofen, Germany.
- Invited presentation 'Combining TanDEM-X with multispectral, multi-source satellite data for the reconstruction of the Bronze Age Landscapes of the Indus Civilisation' together with A Garcia-Molsosa, FC Conesa, AS Green, RN. Singh and CA Petrie at IGARSS 2019 (IEEE International Geoscience and Remote Sensing Symposium). July 28th - August 2nd 2019, Yokohama, Japan.
- Invited research seminar at the Computer Vision Center (UAB-CERCA) 'Multisensor multitemporal AI approaches to the detection and analysis of archaeological settlements at a continental scale' presentation co-authored with A Garcia-Molsosa, FC Conesa and CA Petrie. June 28th 2019, Barcelona, Spain.
- Invited presentation 'Tips from a MSCA IF Supervisor' at the 'Jornada MSCA IF de la Fundació Universitat Rovira i Virgili' 30th of May 2018. Tarragona, Spain.
- Invited presentation 'Machine learning-based large-scale potsherd detection using drone high-resolution imagery: towards an automated intensive survey method' presentation co-authored with A Garcia-Molsosa, FC Conesa and CA Petrie. ArchAIDE Project Final Conference, 12th - 14th of May 2019, Pisa, Italy.
- Invited speaker at the conference "Big Data in Archaeology: Practicalities and Possibilities" with the presentation 'Applications of machine and deep learning for the identification and analysis of archaeological sites at a continental scale using 40 years of multi-sensor satellite data' co-authored with FC Conesa, A Garcia-Molsosa and CA Petrie. March 27-28, 2019, McDonald Institute for Archaeological Research, University of Cambridge.

- Invited panel discussant at the 19th international congress of Classical Archaeology in Bonn/Cologne on Roman Transport Systems. Title: 'Networking imports at a continental scale: methodological approaches and research prospects' co-authored with A Livarda. 22-6th of May 2018.
- Computational and Digital Archaeology Lab seminar (McDonald Institute for Archaeological Research, University of Cambridge) with T.C. Wilkinson and T.P. Leppard. 'CDAL takes on 'Big Places': Human responses to long-term, large-scale environmental variability' 22nd of May 2018.
- Invited long presentation at the II Simposi Internacional d'Arqueologia d'El Born CCM (Barcelona) with the title 'Les formes de l'aigua: dos mil·lennis d'intimitat entre el Rec i Barcelona' co-authored with C Miró and S Riera. 15-17th of March 2018.
- Invited Satuccino Extra Shot talk, space industry networking event for space technology and satellite application sector companies engaged with the Satellite Applications Catapult. Title: 'Discovering lost landscapes through satellite data' Aurora Innovation Centre at the British Antarctic Survey (Cambridge), 7th of February 2018.
- Invited research seminar at the Institute of Archaeology of the University of Cologne (Germany) with the title 'Long-term analysis of Romano-British communication and trade through the combination of spatial and social network analysis' co-authored with A Livarda. 2nd of May 2017.
- Invited presentation at the conference Archaeology of Mountain Landscapes: Interdisciplinary Research Strategies of Agro-Pastoralism in Upland Regions, Institute for European and Mediterranean Archaeology, University at Buffalo, The State University of New York, 'Coastal Mediterranean Mountains: a neglected archaeological register for the study of the first complex societies'. 8-9th of April 2017.
- Invited research seminar with A. Livarda (Nottingham) at the Department of Classical and Archaeological Studies, University of Kent, 'The routes of the exotic: transport and distribution of exotic food plants in Britannia and its implications for the study of Roman interprovincial trade'. 9th of February 2017.
- Invited research seminar at the Classical Archaeology seminar series at the Faculty of Classics, University of Cambridge, 'The Romano-British transport network and the changing fortunes of interprovincial trade from the 1st to the 4th century' co-authored with A. Livarda. 31st of January 2017.
- Invited presentation 'Tradition and innovation in British archaeological survey in the Aegean: Designing landscape-specific survey strategies in Thessaly and Crete' at the workshop 'Para-colonial legacies: German & British imaginaries of ancient Aegean landscapes' organised by the DAAD Cambridge Research Hub, the McDonald Institute for Archaeological Research and Churchill College. 16th – 17th of December 2016.
- Invited talk at the Asian Archaeology seminar series at the McDonald Institute for Archaeological Research, University of Cambridge, 'Of lost rivers and flattened mounds: Remote Sensing and GIS-based research into the Indus civilisation hidden landscapes'. 21st of November 2016.
- Invited Webinar at the Freie Universität (Berlin, Germany) on 'The Roman centuriated landscape: methods and interpretation'. 8th of November 2016.
- Invited 2016-17 inaugural RLAHA seminar at the School of Archaeology of the University of Oxford, 'The Roman transport network, a new approach to the study of the globalised Roman urban market economy'. 11th of October 2016.
- Invited term inaugural George Pitt-Rivers Laboratory Seminar at the McDonald Institute for Archaeological Research, University of Cambridge, 'The Human Sphere: Digital investigations on the origin and development of anthropogenic landscapes'. 22nd of April 2016.
- Invited MARS research seminar at the Humanities Research Institute of the University of Sheffield 'Landscapes of the past: new digital methods for their reconstruction and interpretation'. 16th March 2016.

- Invited presentation 'Water management strategies in the Mediterranean from Minoan Bronze Age to Roman Hispania' at the workshop *Approches géoarchéologiques et paléoenvironnementales de la gestion des ressources hydrauliques dans l'Antiquité* organised by the international project HYDROMED in Aix-en-Provence, France. 10th-11th of March 2016.
- Invited 'Upper House Seminar' at the British School at Athens with N. Krahtopoulou: 'Hidden and unexpected riches: re-discovering the erased cultural landscapes of western Thessaly by aerial and pedestrian survey'. 9th November 2015.
- Invited presentation 'The pastoral landscapes of north-eastern Spain: long-term multidisciplinary approaches and current research perspectives' at the workshop 'Humans, livestock and their landscape: past, present and future' organised by U. Albarella & A. Hadjikoumis and sponsored by the British Academy and the Faculty of Arts and Humanities, University of Sheffield. 5th May 2015.
- Invited presentation 'El pastoralisme i el sorgiment de les societats complexes al Mediterrani: qüestions d'intensitat, moviment i impacte paisatgístic' at the workshop 'Estudis transdisciplinars sobre ramaderia i pastoralisme' organised by the Institute of Human Palaeoecology and Social Evolution (IPHES) and the Catalan Institute of Classical Archaeology (ICAC). Tarragona, Spain. 23th February 2015.
- Invited presentation 'Gestió de l'aigua i pràctiques agrícoles de l'edat del ferro en el període romà a l'est de la península ibèrica: estudis en curs i perspectives de recerca' at the workshop 'Water Archaeology II' organised by the Institut de l'Aigua, Universitat de Barcelona (Spain), 18th February 2015.
- Invited research seminar at Sheffield's Department of Archaeology Tuesday Lunchtime Lecture Series on 'Network archaeology: connecting landscapes from Neolithic Greece to Roman Britain'. 17th February 2015.
- Invited series of lectures at the Department of Prehistory Ancient History and Archaeology of the University of Barcelona (12hrs in total) on the application of GIS to Archaeological research. December 2014.
- Invited presentation 'Remote sensing and the study of Mediterranean landscapes: moving forward through multidisciplinary approaches' at the Symposium *Archaeology from the Sky*, Royal Dutch Institute, Rome (Italy), 28th of May 2014.
- Invited presentation 'Hydraulic structures and water management systems in Roman Barcino (Barcelona)' at the workshop 'Water Archaeology: ancient hydraulic structures' organised by the Institut de l'Aigua, Universitat de Barcelona (Spain), 7th May 2014.
- Invited public talk 'El temple i el fòrum de Barcino. Arguments per a una reinterpretació' at the 'Diàlegs d'Història Urbana i Patrimoni' of the Museum of the History of Barcelona (MUHBA), 10th of March 2014.
- Invited series of lectures at the Department of Prehistory Ancient History and Archaeology of the University of Barcelona (12hrs in total) on the application of GIS to Archaeological research. January 2014.
- Invited talk at the Centre for Advanced Studies (University of Nottingham) - Early Career Event on 'Starting an Early Research Career... Towards a permanent academic post' 16th of December 2013.
- Invited presentation 'Using GIS for the Study of Cultural Landscapes' at the workshop "People/Event/Place: Mapping Experience in Past and Present", organised by the Department of History, University of Nottingham (UK), 4th of December 2013.
- Guest lecture on "Roman landscapes of Hispania: resistance, colonisation and integration" at the Faculty of Archaeology, University of Leiden, Netherlands, 22nd of November 2013.
- Invited talk at the Launch Event for the Early Career Research Fellowship Network of the University of Nottingham. Nottingham (UK), 21st of November 2013.
- Invited workshop presentation "Nouvelles approches de l'ingénierie hydraulique romaine. Actualité de la recherche en France et en Espagne" organised by the Casa de Velázquez, Université de Toulouse le Mirail and Université de Lyon 2. Toulouse (France) 15th – 16th of February 2013.

- Invited workshop presentation with J.M. Palet “La recerca sobre el paisatge a Andorra”. 6th Research debate of Andorra. Organised by the Societat Andorrana de Ciències (Andorra la Vella, Andorra). 12th – 13th of December 2012.
- Invited workshop presentation “Imagerie à haute résolution. Applications en archéologie et géosciences” organised by the Réseau Inter-MSH ISA, MSH Clermont-Ferrand (France). 19th – 20th of November 2012.
- Department of Archaeology Research Seminars, University of Nottingham, ‘New techniques in classical archaeology: reconsidering Roman Barcelona’. 17th of October 2012.
- Invited speaker for a research seminar in the Department of Geography of the University of Nottingham on ‘Archaeological approaches to the study of Mediterranean cultural landscapes’. 28th of May 2012.
- Invited long paper presentation on the international conference “Computer Applications and Quantitative Methods in Archaeology” organised by the Archaeological Computing Research Group, University of Southampton. 26th – 30th of March 2012.
- Workshop "Carved mountains. Engraved stones. Contributions to environmental resources archaeology of the Mediterranean mountains" organized by the Laboratory of Environmental Archaeology and History, University of Genoa (Italy). 20th - 22nd of October 2011.
- Workshop “Computational approaches to movement in archaeology. Theory, Practice and Interpretation of factors and effects of long term space formation and transformation” organised by the Institut für Klassische Archäologie, Freie Universität (Berlin, Germany). 6th of January 2011.
- Invited workshop presentation with I. Fiz “Modelling the complexity of past population movement, interactions and land use” organised by the Karman Centre for advanced Studies in the Humanities and Institute of Archaeology of the University of Berna (Switzerland). 25th - 26th of April 2008.

Sessions chaired or co-chaired at international conferences

- “Session 14. Large-scale and intensive computational workflows in archaeological remote sensing: from big data to data science” session organised by Conesa, F.; Garcia-Molsosa, A. and H.A. Orengo at the Computer Applications and Quantitative Methods in Archaeology (CAA2022), University of Oxford (UK), 8-11 of August 2022.
- “Session 13. Machine and deep learning methods in archaeological research: beyond site detection” session organised by Garcia-Molsosa, A.; Orengo, H.A. and I. Berganzo-Besga at the Computer Applications and Quantitative Methods in Archaeology (CAA2022), University of Oxford (UK), 8-11 of August 2022.
- “Hydrological and settlement landscapes” session organised by H.A. Orengo, A. Green, A. Garcia-Molsosa, F.C. Conesa and C.A. Petrie at the TwoRains Conference 2021, 18 May 2021- 29 June 2021, University of Cambridge (virtual sessions, one per week). 8th June 2021.
- “Archaeological site detection with machine learning and other computational approaches”. Session organised by Hector A. Orengo, Arnau Garcia-Molsosa, Francesc C. Conesa and Cameron A. Petrie at the Landscape Archaeology Conference (LAC 2020+1). Madrid (virtual), 8-11 Jun 2021.
- “Advances in archaeological survey” session organised by Hector A. Orengo, Thomas P. Leppard, Elif Koparal, Toby C. Wilkinson, Arnau Garcia-Molsosa, Merkourios Georgiadis, Athanasia Krahtopoulou and Josep M. Palet at the Landscape Archaeology Conference (LAC 2020+1). Madrid (virtual), 8-11 Jun 2021.
- “The bioarchaeology of landscapes” on the 24th European Association of Archaeologists Annual Meeting, Barcelona. 5th - 8th of September, 2018.
- “Field systems, centuriations and the shaping of Cultural Landscapes: integrated and long-term analysis” on the 24th European Association of Archaeologists Annual Meeting, Barcelona. 5th - 8th of September, 2018.

- “Rethinking Mountain Cultural Landscapes: integrated analysis on pastoralism and transhumance” on the 4th International Landscape Archaeology Conference, Uppsala (Sweden). 23rd - 25th of August, 2016.
- “Archaeomorphology as Landscape Archaeology: new approaches and perspectives” on the 3rd International Landscape Archaeology Conference, Rome (Italy). 17th - 20th of September 2014.
- “Roman concepts of landscape: new approaches and perspectives” on the 24th Theoretical Roman Archaeology Conference. Reading (UK). 28th - 30th of March 2014.
- “Feeding the beast: integration and analysis of new data types into GIS” on the 36th conference of “Computer Applications and Quantitative Methods in Archaeology. On the Road to Reconstructing the Past”. Budapest (Hungary). 2nd - 6th of April 2008.

Conference/workshop/seminar organisation

- Co-organiser of the international workshop (with Merkourios Georgiadis and Maria Ferrer) ‘Landscape, display and economy at Abdera and Thrace’ held at ICAC the 24th of November 2022.
- Co-organiser (with F.C. Conesa, A. Garcia-Molsosa and C.A. Petrie) of the international workshop ‘Computational approaches to archaeological site detection and monitoring’ held at the McDonald Institute for Archaeological Research, University of Cambridge. 29th of February 2020.
- Organiser (with J.M. Palet) of the ‘First Practical Workshop on Advanced Computational Archaeology’ 30th of October to 9th of November 2018.
- 2016-17. Co-organiser (with E.R. Crema, T. Leppard and T.C. Wilkinson) of the Computational and Digital Archaeology Laboratory (CDAL) seminar series at the McDonald Institute for Archaeological Research.
- Co-organiser of the spring 2015 International Conference of the AEA (Association for Environmental Archaeology) ‘Crossing boundaries: the creation of Foodscapes’.
- One-day workshop for the Digital Humanities Centre of the University of Nottingham on the application of GIS into Humanities (10-10-13).
- One-day workshop on The Application of GIS to Local History Case studies in the University of Nottingham (19-06-13).

Memberships of organising/scientific/programme committees

- Member of the Programme Committee of the 4th Spatial Humanities Conference organised by CLARIAH-VL with the support of the DARIAH-EU GeoHumanities working group and in collaboration with the Ghent Centre for Digital Humanities, Quetelet Center for Quantitative Historical Research, Antwerp Cultural Heritage Sciences, the Lancaster University Digital Humanities Centre and the Digital Humanities Lab, Universidade NOVA de Lisboa. Ghent on 7th - 9th September 2022.
- Member of the Scientific committee of the meeting ‘5th Training and Research in the Archaeological Interpretation of Lidar (TRAIL) 2022. Archaeological interpretation across scales – learning about landscapes using lidar’ 27th – 29th of April at Hostel Proteus in Postojna, Slovenia.
- Member of the Scientific Committee of the Computer Applications and Quantitative Methods in Archaeology (CAA) International conference from 2017 to 2020.
- Member of the Scientific Committee of the 1st TIR-FOR SYMPOSIUM. From territory studies to digital cartography. 26th - 27th of October, 2020. Institut d’Estudis Catalans, Barcelona.
- Member of the organising committee of the International Workshop on Landscape Archaeology of European Mountain Areas: Current Research and Future Perspectives. 4-6 July 2008, organised by the Catalan Institute of Classical Archaeology (Tarragona, Spain).

- Member of the organising committee of the workshop 'Desarrollo urbano y arqueología del paisaje en los Pirineos romanos'. Benasque (Aragón), 31 of May - 4 of June 2010, organised by ICAC and Centro de Ciencias de Benasque Pedro Pascual.
- Member of the CAA 2011 Programme Committee.

Scientific consultant

- Assessor for the International Postgraduate School of the Universitat Oberta de Catalunya (2009).
- Linguistic and technical advisor on GIS and landscape archaeology to implement the BACUS terminological database for the Autonomous University of Barcelona (2010).
- Scientific advisor on Roman water management systems for the exposition "La revolució de l'aigua a Barcelona" at the Museu d'Història de la Ciutat de Barcelona (2010).

Reviewer for:

Conference proceedings and edited volumes:

- Springer International Publishing (2018).
- Oxford University Press (2017).
- Oxbow Books (2015).
- I have reviewed 2 contributions to the international conference 'Communities, Landscapes, and Interaction in Neolithic Greece' (Rethymno 2015).
- I have reviewed 5 contributions to the 2014 International Landscape Archaeology Conference proceedings.
- As a member of the CAA Review College since 2008 and a member of the CAA Scientific Committee from 2016, I have reviewed a total of 47 session proposal, 35 communication proposals and 9 articles to date.

Journals:

- Proceedings of the National Academy of Sciences of the USA (2022)
- Archaeological Prospection (2022)
- Journal of Open Archaeology Data (2021)
- Journal of Field Archaeology (2021)
- PCI Archaeology (2021 x2 article editions)
- Archaeological and Anthropological Sciences (2021)
- Journal of Archaeological Science (2020 x 2)
- Remote Sensing in Earth Systems Science (2020)
- Geoscience and Remote Sensing Letters (2020)
- Cambridge Archaeological Journal (2020)
- Journal of Quaternary Science (2019).
- Journal of Archaeological Research (2019).
- Geosciences (2019).
- Journal of Island & Coastal Archaeology (2018).
- American Journal of Archaeology (2018).
- Journal of Arid Environments (2018).
- Journal of Archaeological Science: Reports (2018 x 2, 2020).
- ISPRS International Journal of Geo-information (2017).

- Antiquity (2016, 2020).
- Remote Sensing (2016, 2019).
- Quaternary International (2015, 2016, 2017).
- World Archaeology (2015).
- International Journal of Geographical Information Science (2015).
- Open Archaeology (2015).
- Multiple other reviews for minor journals from 2013 onwards.

Funding bodies:

- National Aeronautics and Space Administration (NASA), United States. NNH19ZDA001N-IDS: Interdisciplinary Research in Earth Science (2020)
- Agencia Estatal de Investigación, Spain (2019 onwards). Calls:
 - PIF, Formación de Personal Investigador (2019, 2020)
 - PID, Proyectos de I+D+i (4 projects evaluated in 2020)
 - ECQ, Equipamiento Científico-Tecnológico (2021)
- International Reviewer for the Czech Science Foundation (2015).
- University of Nottingham's funding scheme 'Bridging the Gaps: Next Generation Feasibility Awards 2014 for Research Staff'.

Awards:

- John Evans' Prize of the Association of Environmental Archaeology (2014).
- Student poster price at the 3rd International Landscape Archaeology Conference (2014).

PhD Evaluation

- Member (secretary) of the *viva voce* tribunal for the PhD thesis of Dr Jesús Martínez Fernández (ICAC, Spain), 31st of May, 2021.
- External evaluator for the European PhD thesis of Dr F.C. Conesa (University of Barcelona, Spain), 2016.
- External evaluator for the European PhD thesis of Dr N. Torras-Benezet (Pompeu Fabra University, Spain), 2016.
- External evaluator for the European PhD thesis of Dr M. Yubero-Gómez (University of Barcelona, Spain), 2016.

Publications: books

A. Pitarch, Ll. Alapont & **Orengo, H.A.** 2016. *Arqueologia de l'Horta Sud, l'origen d'una comarca històrica*. Torrent, Institut d'Estudis Comarcals de l'Horta Sud.

Palet, J.M.; **Orengo, H.A.** & Nadal, J. 2009. *La arqueología y la recuperación patrimonial*. Barcelona, Fundació per a la Universitat Oberta de Catalunya.

Publications: Edited volumes

Burgers, G.-J.; Kluiving, S.; Hermans, R. (gen. editors); Brouwer-Burg, M.; Corsi, C.; Carboni, F.; Fairclough, G.; Guaitoli, M.; **Orengo, H.A.**; Palet, J.M.; Pedroli, B.; Quilici-Gigli, S.; Verhagen, Ph.; Whitley, T.; McGrath, M.

(section editors) 2016. *Multi-, inter- and transdisciplinary research in Landscape Archaeology*. Amsterdam, Vrije Universiteit Amsterdam. ISBN 978-90-825296-0-9.

Riera, S. (ed.), **Orengo, H.A.** & Ejarque, A. (coords.) 2008. *Autoaprendizaje basado en la investigación. La historia del paisaje cultural del Massís del Garraf a partir de la resolución de casos*. Barcelona, Dipòsit Digital de la Universitat de Barcelona.

Publications in Peer-reviewed journals.

Conesa, F.C.; **Orengo, H.A.**; Lobo, A. & Petrie, C.A. 2023. An Algorithm to Detect Endangered Cultural Heritage by Agricultural Expansion in Drylands at a Global Scale. *Remote Sensing*, 15(1): 53.

Berganzo-Besga, I.; **Orengo, H.A.**; Canela, J. & Belarte, C. 2022. Potential of multitemporal lidar for the detection of subtle archaeological features under perennial dense forest. *Land*, 11(11): 1964.

Berganzo-Besga, I.; **Orengo, H.A.**; Lumbreras, F.; Aliende, P. & Ramsey, M.N. 2022. Automated detection and classification of multi-cell phytoliths using deep learning-based algorithms. *Journal of Archaeological Science*, 148: 105654.

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): 167.

Knodell, A.R.; Wilkinson, T.C.; Leppard, T.P & **Orengo, H.A.** 2022. Survey archaeology in the Mediterranean World: settlement patterns, regional studies, and archaeologies of landscape. *Journal of Archaeological Research*. <https://doi.org/10.1007/s10814-022-09175-7>.

Ejarque, A.; Julià, R.; Castanyer, P; **Orengo, H.A.**; Palet, J.M. & Riera, S. 2022. Landscape footprints of peopling and colonization from the Late Bronze Age to Antiquity in NE Iberia: palaeoenvironmental analyses in the coastal hinterland of Emporion-Emporiae. *The Holocene*, 32(4): 280-296.

Berganzo-Besga, I.; **Orengo, H.A.**; Lumbreras, F.; Carrero-Pazos, M.; Fonte, J. & Vilas-Estévez, B. 2021. Hybrid MSRM-Based Deep Learning and Multitemporal Sentinel 2-Based Machine Learning Algorithm Detects Near 10k Archaeological Tumuli in North-Western Iberia. *Remote Sensing*, 13(20): 4181.

Orengo, H.A.; Garcia-Molsosa, 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): 519-26.

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.

Palet, J.M.; Garcia-Molsosa, A.; Rodrigo, E.; **Orengo, H.A.** & Ortega, M.J. 2021. Structuration et occupation de la plaine littorale d'Empúries dans l'Antiquité Espaces agraires et réseaux centuriés. *Mediterranee*, 133: 27-42.

Nieto Espinet, A.; Huet, T.; Trentacoste, A.; Guimarães, S.; **Orengo, H.** & Valenzuela Lamas, S. 2021. Resilience and livestock adaptations to demographic growth and technological change: A diachronic perspective from the Late Bronze Age to Late Antiquity in NE Iberia. *PLOS ONE*, 16(2): e024620.

Livarda, A.; **Orengo, H.A.**; Cañellas-Boltà, N.; Riera-Mora, S.; Picornell-Gelabert, Ll.; Tzevelekidi, V.; Veropoulidou, R.; Marlasca Martín, R. and Krahtopoulou, A. 2021. Mediterranean polyculture revisited: olive, grape and

subsistence strategies at Palaikastro, East Crete, between the Late Neolithic and Late Bronze Age. *Journal of Anthropological Archaeology*, 61: 101271.

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 multi-sensor and multi-temporal satellite data. *Proceedings of the National Academy of Sciences of the United States of America*, 117(31): 18240-18250.

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.

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.

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.

Petrie, C.A.; **Orengo, H.A.**; Green, A.S.; Walker, J.R.; Garcia, A.; Conesa, F.; Knox, J.R. & Singh, R.N. 2019. 'Mapping archaeology while mapping an empire: using historical maps to reconstruct ancient settlement landscapes in modern India and Pakistan' *Geosciences*, 9(1): 11.

Jiménez-Manchón, S.; Valenzuela-Lamas, S.; Caceres, I.; **Orengo, H.**; Gardeisen, A.; Lopez, D. & Rivals, F. 2019. 'Reconstruction of caprine management and landscape use through dental microwear analysis: the case of the Iron Age site of El Turó de la Font de la Canya (Barcelona, Spain)'. *Environmental Archaeology*, 24(3): 306-316.

Valenzuela-Lamas, S.; **Orengo, H.A.**; Bosch, D.; Pellegrini, M.; Halstead, P.; Nieto-Espinet, A.; Trentacoste, A.; Jiménez-Manchón, S.; López-Reyes, D. & Jornet-Niella, R. 2018. Shipping amphorae and shipping sheep? Livestock mobility in the north-east Iberian peninsula during the Iron Age based on strontium isotopic analyses of sheep and goat tooth enamel. *PLOS ONE*, 13(10): e0205283.

Orengo, H.A. & Knappett, C. 2018. 'Towards a definition of Minoan agro-pastoral landscapes: results of the survey at Palaikastro (Crete)' *American Journal of Archaeology*, 122(3): 479-507.

Cañellas-Boltà, N.; Riera-Mora, S.; **Orengo, H.A.**; Livarda, A. and Knappett, C. 2018. Human management and landscape changes at Palaikastro (Eastern Crete) from the Late Neolithic to the Early Minoan period. *Quaternary Science Reviews*, 183: 59-75.

Orengo, H.A. & Petrie, C.A. 2018. Multi-Scale Relief Model (MSRM): a new algorithm for the visualisation of subtle topographic change of variable size in digital elevation models. *Earth Surface Processes and Landforms*, 43(6): 1361-9.

Palet Martínez, J.M.; Garcia Molsosa, A.; **Orengo Romeu, H.A.** & Polonio Alamino, 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: 77-97.

Orengo, H.A. & Petrie, C.A. 2017. Large-scale, multi-temporal remote sensing of palaeo-river networks: a case study from northwest India and its implications for the Indus Civilisation. *Remote Sensing*, 9(7): 735.

Ortega, M.J.; Palet, J.M. & **Orengo, H.A.** 2016. El límite entre Valentia y Saetabis: un paisaje cultural de origen romano al sur de los ríos Xúquer y Magre (Xàtiva, Valencia). *Agri centuriati. International Journal of Landscape Archaeology*, 12 (2015): 153-74.

Orengo, H.A. & Cortés, A. 2016. 'El templo de Augusto de Barcino. Nuevas perspectivas de estudio' *Empúries*, 56 (2009-11): 183-97.

Carmona, P.; Ruiz-Pérez, J.M.; Blázquez, A.M.; López-Belzunce, M.; Riera-Mora, S. & **Orengo, H.A.** 2016. Environmental evolution and mid-late Holocene climate events in the Valencia lagoon (Mediterranean coast of Spain). *The Holocene*, 26: 1750-65.

Orengo, H.A. & Livarda, A. 2016. 'The seeds of commerce: a network analysis-based approach to the Romano-British transport system' *Journal of Archaeological Science*, 66: 21-35.

Orengo, H.A.; Krachtopoulou, A.; Garcia-Molsosa, A.; Palaiochoritis, K. & Stamati, A. 2015. 'Photogrammetric re-discovery of the Eastern Thessalian hidden long-term landscapes' *Journal of Archaeological Science*, 64: 100-9.

Miras, Y.; Ejarque, A.; Riera-Mora, S.; **Orengo, H.A.** & Palet, J.M. 2015. '28. Andorran high Pyrenees (Perafita Valley, Andorra): Serra Mitjana fen' *Grana*, 54(4): 313-6.

Livarda, A. & **Orengo, H.A.** 2015. 'Reconstructing the Roman London flavourscape: new insights into the exotic food plant trade using network and spatial analyses' *Journal of Archaeological Science*, 55: 244-52.

Livarda, A.; **Orengo, H.A.** & Veropoulidou, R. 2015. Palaikastro. Urban – landscape interactions in Minoan Crete. *Newsletter of the Association for Environmental Archaeology*, 127: 5-7.

Orengo, H.A.; Ejarque, A. & Albiach, R. 2014. 'Water management and land-use practices from the Iron-Age to the Roman period in Eastern Iberia' *Journal of Archaeological Science*, 49: 265-75.

Orengo, H.A.; Palet, J.M.; Ejarque, A.; Miras, Y. & Riera, S. 2014. 'The historical configuration of a UNESCO World Heritage Site: the Cultural Landscape of the Madriu-Perafita-Claror Valley' *Archeologia Postmedievale*, 17 (2013): 333-43.

Orengo, H.A.; Palet, J.M.; Ejarque, A.; Miras, Y. & Riera, S. 2014. 'Shifting occupation dynamics in the Madriu-Perafita-Claror valleys (Andorra) from the early Neolithic to the Chalcolithic: the onset of high mountain cultural landscapes' *Quaternary International*, 353: 140-52.

Orengo, H.A. & Cortés, A. 2014. The Augustan temple and forum of the colony of Barcino: a 90 degrees turn. *Oxford Journal of Archaeology*, 33 (1): 89-107.

Ortega, M.J.; **Orengo, H.A.** & Palet, J.M. 2013. 'Análisis arqueomorfológico de la llanura litoral al norte de Valentia. Estructuración territorial y revisión de las tramas centuriadas' *Agri Centuriati. International Journal of Landscape Archaeology*, 9 (2012): 59-75.

Servera, G.; Miras, Y.; Riera, S.; Julià, R.; Allée, Ph.; **Orengo, H.A.**, Paradis-Grenouillet, S. & Palet, J.M. 2013. 'Tracing the land use history and vegetation dynamics in the Mont Lozère (Massif Central, France) during the last 2000 years: The interdisciplinary study case of Countrasts peat bog' *Quaternary International*, 353: 123-39.

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International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA), Berlin, Germany, April 2-6, 2007, Kolloquien zur Vor- und Frühgeschichte, vol. 10. Bonn, Habelt.

Ejarque, A.; **Orengo, H.A.** & Agustín, J.M. 2008. 'Estratigrafia i evolució conceptual d'un paisatge de muntanya al massís del Garraf: la Maçana – Rovirós – Térmens (Begues)' in J. Hernández, J. Grau & J. Melero (Coords.) *V Trobada d'estudiosos del Garraf*. Barcelona, Diputació de Barcelona: 137-46.

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Presentations

Berganzo-Besga, I.; Lumbreras, F.; Gracia-Molsosa, A.; Alam, A.; Gerrits, P.; Green, A.; Khan, A.; Campbell, R.; Suárez-Moreno, M.; Tomaney, J.; Roberts, R.; **Orengo, H.A.** and Petrie, C. 2022. A workflow for the large-scale automated extraction of archaeological mounds from historical map series. **Computer Applications and Quantitative Methods in Archaeology (CAA2022)**, University of Oxford (UK), 8-11 of August 2022.

Berganzo-Besga, I.; **Orengo, H.A.**; Lumbreras, F.; Carrero-Pazos, M. and Fonte, J. 2022. A new hybrid machine learning algorithm combining lidar and multispectral data for the location of mounds. **Computer Applications and Quantitative Methods in Archaeology (CAA2022)**, University of Oxford (UK), 8-11 of August 2022.

Berganzo-Besga, I.; Lumbreras, F.; Ramsey, M. and **Orengo, H.A.** 2022. identification of complex multi-cell phytoliths: First results, potential and possibilities. **Computer Applications and Quantitative Methods in Archaeology (CAA2022)**, University of Oxford (UK), 8-11 of August 2022.

Cameron A. Petrie, R.N. Singh, A. Angourakis, A. Alam, J. Bates, J-P. Baudouin, A. Ceccarelli, S. Chakraborti, S. Chakradari, A. Chowdhury, Y. Dixit, C.A.I. French, A. Garcia-Molsosa, A. Giesche, A. Green, L. Green, D. Hodell, P.J. Jones, E. Lightfoot, S. Neogi, **H.A. Orengo**, A.K. Pandey, D. Parikh, V. Pawar, A. Ranjan, D.I. Redhouse, D.P. Singh, A. Suryanarayan, M.C. Ustunkaya, and J.R. Walker. 2002. The TwoRains project in 2022. **25th conference of the European Association for South Asian Archaeology and Art**. Barcelona, 4-8th of July 2022.

Cameron A. Petrie, **H.A. Orengo**, A.S. Green, A. Garcia-Molsosa, M. Madella, R.N. Singh, R. Roberts, J. Abdul-Jabbar. 2022. A multi-method workflow for carrying out large-scale mapping and surveying in the Indus River basin in South Asia. **25th conference of the European Association for South Asian Archaeology and Art**. Barcelona, 4-8th of July 2022.

Conesa, F.C.; **Orengo, H.A.** and Petrie, C.A. 2022. Use of multi-temporal satellite data to monitor endangered archaeological mounds and recent agricultural expansion in the Cholistan Desert. **25th conference of the European Association for South Asian Archaeology and Art**. Barcelona, 4-8th of July 2022.

Roberts, R.C.; Jabbar, J.A.; Jones, H.; **Orengo, H.A.**; Madella, M., and Petrie, C.A. 2021. Paper and pixels: historic maps as a multifaceted resource. **30th International Cartographic Conference**. December, 14-18, Florence, Italy.

Conesa, F.; **Orengo, H.**; Lobo, A.; Garcia-Molsosa, A.; Green, A.S. & Petrie, C. 2021. Towards Big Earth Data: cloud-computing workflows for the automated detection and monitoring of endangered archaeological sites. **Computer Applications and Quantitative Method in Archaeology- CAA 2021 Digital Crossroads**. June, 14-18, Limassol, Cyprus.

Green, A.S.; **Orengo, H.**; Alam, A.; Conesa, F.; Garcia-Molsosa, A.; Walker, J; Singh, R.N. & Petrie, C. 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. **Computer Applications and Quantitative Method in Archaeology- CAA 2021 Digital Crossroads**. June, 14-18, Limassol, Cyprus.

Jabbar, J.A.; Roberts, R.C.; Jones, H.; Madella, M.; **Orengo, H.** & Petrie, C. 2021. Historic maps as a multifaceted LOUD resource. **Computer Applications and Quantitative Method in Archaeology- CAA 2021 Digital Crossroads**. June, 14-18, Limassol, Cyprus.

Palet, J.M.; Ejarque, A.; Garcia-Molsosa, A.; Rodrigo, E.; **Orengo, H.A.** & Ortega, M.J. 2021. Integrated landscape analysis in the hinterland of Emporion-Emporiae (North-Eastern Catalonia). **Landscape Archaeology Conference – LAC 2020+1. Virtually Together**. Madrid, 8-11 of June.

Ortega, M.J.; Palet, J.M. & Orengo, H.A. 2021. Two cities, two strategies. Landscape dynamics in the territories of Valentia and Saguntum (Hispania Citerior) during the Late Roman Republic (2nd-1st centuries BC). **Landscape Archaeology Conference – LAC 2020+1. Virtually Together**. Madrid, 8-11 of June.

Georgiadis, M.; Garcia-Molsosa, A.; Orengo, H.A.; Kallintzi, C.; Kefalidou, E.; Ejarque, A.; Mayoral, A. & Palet, J.M. 2021. The Archaeological Project at Abdera and Xanthi: New techniques and data. **Landscape Archaeology Conference – LAC 2020+1. Virtually Together**. Madrid, 8-11 of June.

Garcia-Molsosa, A.; Orengo, H.A.; Leppard, T.P.; Murphy, E.A.; Roppa, A.; Georgiadis, M.; Kefalidou, E.; Dimakis, N. & Kallintzi, K. 2021. Towards a practical application of automated drone-based archaeological survey. **Landscape Archaeology Conference – LAC 2020+1. Virtually Together**. Madrid, 8-11 of June.

Orengo, H.A.; Conesa, F.C.; Garcia-Molsosa, A.; Green, A.S.; Lobo, A. & Petrie, C.A. 2021. Integrated machine/deep learning approaches for the remote detection of archaeological features of the Indus Civilisation. **Landscape Archaeology Conference – LAC 2020+1. Virtually Together**. Madrid, 8-11 of June.

Orengo, H.A.; Garcia-Molsosa, A. & Petrie, C.A. 2021. Some ideas on the potential of new multitemporal multisource remote sensing data for the development of synergistic approaches between archaeology and precision agriculture. **Landscape Archaeology Conference – LAC 2020+1. Virtually Together**. Madrid, 8-11 of June.

Palet, J.M.; Pescini, V.; Colominas, L.; Fossati, M.; Garcia-Molsosa, A.; Gallego-Valle, A. & **Orengo, H.A.** 2020. Livestock, transhumance and landscape change in the Eastern Pyrenees (high Ter valleys): an interdisciplinary and long-term research. **Landscape Archaeology Conference – LAC 2020+1. Virtually Together**. Madrid, 8-11 of June.

Orengo, H.A.; Garcia-Molsosa, H.A. & Conesa, F. 2021 Remote sensing within TwoRains: pioneering multitemporal multisource automated methods for the large-scale analysis of the Indus Civilisation. **TwoRains Conference 2021**. 18 May - 29 June 2021 (7 virtual sessions, one per week). 8 June 2021: Hydrological and Settlement Landscapes.

Livarda, A. & **Orengo, H.A.** 2021. A New Method for the Identification of Agricultural Practices in the Past: Combining Archaeobotany, micro 3D GMM and Artificial Intelligence. **VI Reunió Oikos de Bioarqueologia**, ACBA, Barcelona, May, 28-29.

Leppard, T.; Murphy, E.; Roppa, A.; **Orengo, A.** & García-Molsosa, A. 2020. Analyzing dense Roman rural settlement with integrated pedestrian survey and systematic UAV-based remote sensing: the Landscape Archaeology of Southwest Sardinia Project (with). **Roman Archaeology Conference**, Split, April 16-20.

Orengo, H. A., Garcia-Molsosa, A., Conesa, F. C., & Petrie, C.A. 2019. As above so below: Artificial intelligence-based detection and analysis of archaeological sites and features at a continental scale. **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.

Conesa, F.C., **Orengo, H.A.**, Garcia-Molsosa, A., Green, A.S., & Petrie, C.A. 2019 Towards the automatised of remote site detection: use of large-scale geospatial datasets to document archaeological sites in the Cholistan Desert, Pakistan, **Annual Conference of the Indian Archaeological Society**, Indian Society for Prehistoric and Quaternary Studies and Indian History and Culture Society, Thiruvananthapuram, Kerala, 7-9 Nov.

Petrie, C.A., **Orengo, H.A.**, Garcia, A., Conesa, F.C., Green, A.S. & Singh, R.N. 2019. Reconstructing settlement landscapes in the Indus River Basin: insights from the Land, Water and Settlement and TwoRains projects, **Annual Conference of the Indian Archaeological Society**, Indian Society for Prehistoric and Quaternary Studies and Indian History and Culture Society, Thiruvananthapuram, Kerala, 7-9 Nov

Orengo, H.A., Garcia, A., Conesa, F.C., Green, A.S., Singh, R.N. & Petrie, C.A. 2019. New approaches to the archaeology of the Indus civilisation using TanDEM-X in combination with multisensor multitemporal satellite data and machine learning. **TerraSAR-X / TanDEM-X Science Team Meeting 2019**, DLR Campus in Oberpfaffenhofen, 21-24 October.

Petrie, C.A., Green, A.S., Juerke, F., **Orengo, H.A.**, Taylor, H., Weeks, L.R., & Wilkinson, T. 2019. Learning from past water management practices in south Iran (and South Asia), **BIRI Water Management Workshop**, British Institute At Ankara, 30 Sept - 01 Oct.

L. Colominas, C. Giguët-Covex, A. Ejarque, I. Euba, **H.A. Orengo**, J.M. Palet. 2019. Tracing livestock farming in eastern Pyrenees from the Neolithic to the present: a combined archaeobiological and palaeoenvironmental approach. **25th Annual Meeting of the European Association of Archaeologists**, Bern (Switzerland), 4-7 September.

Orengo, H.A., Garcia, A., Conesa, F., Green, A.S., Singh, R.N., y 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**, Yokohama, Japan, 28 July - 02 August.

J. Durcan, D.S. Thomas, V. Pawar, A. Sharan, S. Gupta, **H.A. Orengo**, R. N. Singh y C.A. Petrie, 2019. Holocene landscape dynamics of the Ghaggar-Hakra fluvial system, India: implications for the Indus Civilisation, **INQUA**, Dublin, 25-31 July.

A. Ejarque, R. Julià, S. Riera, **H.A. Orengo**, J.M. Palet. 2019. Landscape changes following Greek and Roman contacts and settlement in the coastal hinterland of Emporion-Emporiae (NE Catalonia, Spain). **MedPalyno 2019**. The Mediterranean Palynological Societies Symposium. Bordeaux (France), 9-11 July.

J.R. Walker, C.A. Petrie, **H.A. Orengo**, J. Durcan, and C.A.I. French, 2019. Buried Indus Landscapes: Using Geoarchaeology to assess Human-Environment Interactions in northwest India, **8th Developing International Geoarchaeology (DIG) conference**, Simon Fraser University, Canada, 17-21 June.

F.C. Conesa, **H.A. Orengo**, A. Garcia, A.S. Green, and C.A. Petrie, 2019. Multi-temporal and multi-sensor data integration for the machine learning detection of archaeological mounds: perspectives from South Asian archaeology, **ESA Living Planet Symposium**, Milan, 13-17 May.

Durcan, J., Thomas, D.S.G., Pawar, V., Sharan, A., Gupta, S., **Orengo, H.A.**, Singh, R.N., Petrie, C.A. 2019. Holocene landscape dynamics of the Ghaggar-Hakra fluvial system, India: implications for the Indus Civilisation, "Geoarchaeological records of human-landscape interaction: from a nature-dominated world to the Anthropocene", **EGU 2019**, Vienna, 7–12 April

Orengo, H.A.; Conesa, F.C.; Garcia-Molsosa, A. & Petrie, C.A. 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, **BigData Conference**, McDonald Institute, 27-28 March.

Palet, J.M.; García Molsosa, A. & **Orengo, H.A.** 2019. Explotación de recursos y formación de paisajes culturales en los Pirineos orientales (alto Segre y Ter): las ocupaciones de alta montaña desde la perspectiva de la arqueología del paisaje. **Arqueoloxía en áreas de montaña: últimos desenvolvimentos e retos de futuro na Península Ibérica**. 27th of March 2019. Santiago de Compostela, Spain.

Orengo, H.A.; Garcia, A.; Conesa, F.C.; Green, A. & Petrie, C.A. 2018. The reconstruction of the Bronze Age landscapes of South Asia: a large-scale, multi-temporal and multi-source approach using cloud parallel computing. 5th **Landscape Archaeology Conference**. 17-20 of September 2018, Newcastle – Durham, UK.

Palet, J.M.; Ortega, M.J. & **Orengo, H.A.** 2018. Integrated studies on centuriated landscapes in Mediterranean Hispania tarraconensis: new methods and perspectives. 5th **Landscape Archaeology Conference**. 17-20 of September 2018, Newcastle – Durham, UK.

Orengo, H.A.; Wilkinson, T.C. & Petrie, C.A. 2018 New RS-based advances and concepts in the development of transcontinental route models. 5th **Landscape Archaeology Conference**. 17-20 of September 2018, Newcastle – Durham, UK.

Orengo, H.A.; Crema, E.R.; Wilkinson, T.C.; Petrie, C.A.; Leppard, T.P.; Gjesfjeld, E.; Garcia, A.; Kryzanska, M. & Conesa, F.C. 2018. Computational approaches to diverse, complex and large archaeological datasets: the experience of the CDAL at Cambridge. 24th Annual Meeting of the **European Association of Archaeologists**. 5-8 of September 2018, Barcelona.

Palet, J.M.; **Orengo, H.A.**; Ejarque, A.; Miras, Y. & Riera, S. 2018. High mountain resources: specialised production types for extra-regional trade. 24th Annual Meeting of the **European Association of Archaeologists**. 5-8 of September 2018, Barcelona.

Livarda, A.; **Orengo, H.A.**; Riera-Mora, S.; Cañellas-Voltà, N.; Veropoulidou, R.; Tzevelekidi, V.; Picornell-Gelabert, Ll.; Tsoraki, Ch.; Marlasca-Martín, R. & Kanppett, C. 2018. Re-thinking Minoan resource management: Palaikastro, Crete, in context. 24th Annual Meeting of the **European Association of Archaeologists**. 5-8 of September 2018, Barcelona.

Ortega, M.J.; Palet, J.M. & **Orengo, H.A.** 2018. The making of a Mediterranean landscape. The shaping of the territory of Valencia in Roman times and its symbolic background. 24th Annual Meeting of the **European Association of Archaeologists**. 5-8 of September 2018, Barcelona.

Palet, J.M.; Garcia-Molsosa, A.; Ejarque Montolio, A.; Rodrigo Requena, E.; Ortega Pérez, M.J.; **Orengo, H.A.** & Riera-Mora, S. 2018. Landscape changes, settlement and centuriated systems in the hinterland of Emporion-

Emporiae (North-Eastern Catalonia). 24th Annual Meeting of the **European Association of Archaeologists**. 5-8 of September 2018, Barcelona.

Krahtopoulou, A.; **Orengo, H.**; Riera-Mora, S.; Cañellas-Voltà, N.; Livarda, A.; Picornell-Gelabert, Ll.; Halstead, P. & Veropoulidou, R. 2018. Bioarchaeological history of a 7.500 years-old tell and its landscape: Plateia Magoula Prodromos, western Thessaly, central Greece. 24th Annual Meeting of the **European Association of Archaeologists**. 5-8 of September 2018, Barcelona.

Riera, S.; Livarda, A.; Miró, C.; Picornell, Ll.; Julià, R.; **Orengo, H.**; Nadal, J.; Marlasca, R. & Bros, V. 2018. Natural resources and landscape changes in a Roman and Medieval suburban maritime quarter of Barcelona. 24th Annual Meeting of the **European Association of Archaeologists**. 5-8 of September 2018, Barcelona.

Orengo, H.A. & Wilkinson, T.C. & Petrie, C.A. 2018. Conceptual workflow and preliminary results of the development of transcontinental, multi-factor probabilistic corridors: a new approach to past mobility. 24th Annual Meeting of the **European Association of Archaeologists**. 5-8 of September 2018, Barcelona.

Krahtopoulou, A.; **Orengo, H.**; Frederick, Ch.; Dimoula, A.; Saridaki, N.; Garcia-Molsosa, A.; Kyriallidou, S. 2018. Re-discovering the Neolithic landscapes of western Thessaly, central Greece. 24th Annual Meeting of the **European Association of Archaeologists**. 5-8 of September 2018, Barcelona.

Orengo, H.A.; Gracia-Molsosa, A.; Conesa, F.C. & Petrie, C.A. 2018. Large-scale computational approaches for the palaeolandscape reconstruction of the Sutlej-Yamuna interfluvium and Pakistani Punjab. 24th conference of the **European Association for South Asian Archaeology** and Art. 2-6 of July, 2018, Naples, Italy.

C.A. Petrie, R.N. Singh, A. Alam, J. Bates, J-P. Baudouin, A. Ceccarelli, S. Chakraborti, S. Chakradari, A. Chowdhury, Y. Dixit, C.A.I. French, A. Garcia, A. Giesche, A. Green, L. Green, D. Hodell, P.J. Jones, E. Lightfoot, S. Neogi, **H.A. Orengo**, A.K. Pandey, D. Parikh, V. Pawar, A. Ranjan, D.I. Redhouse, D.P. Singh, A. Suryanarayan, M.C. Ustunkaya, and J. Walker, 2018. From *Land, Water and Settlement* to *TwoRains*: progress in 2016, 2017 and 2018, at the *Twenty-fourth International Conference of the EASAA, European Association of South Asian Archaeologists*, Naples, 2-6 July.

J. Walker, C.A.I. French, **H. Orengo**, V. Pawar, A. Giesche, R.N. Singh and C.A. Petrie, 2018. Buried Indus landscapes: using geoarchaeology to assess human-environment interactions at Lohari Ragho, northwest India, at the Twenty-fourth International Conference of the **EASAA, European Association of South Asian Archaeologists**, Naples, 2-6 July.

Orengo, H.A. & Livarda, A. 2018. Networking imports at a continental scale: methodological approaches and research prospects. **19th International Congress of Classical Archaeology**, Cologne/Bonn, 22 – 26 May 2018.

Petrie, C.A., Green, A., **Orengo, H.**, and Singh, R.N. 2018. Hidden in plain sight: reconstructing landscapes of urbanism in northwest India, 12 April, **SAA Conference**, Washington DC, 11-15 April 2018.

Orengo, H.A. & Wilkinson, T.C. 2018. Touching the past from afar: new approaches to satellite Remote Sensing. **Cambridge Science Festival**. 23rd of March 2018, Cambridge.

Orengo, H.A.; Miró, C. & Riera, S. 2018. Les formes de l'aigua: dos mil·lennis d'intimitat entre el Rec i Barcelona. **II Simposi Internacional d'Arqueologia d'El Born CCM**. 15-17 of March, Barcelona.

A.S. Green, J. Bates, P.J. Jones, E. Lightfoot, **H.A. Orengo**, R.N. Singh, M.C. Ustunkaya, J.R. Walker and C.A. Petrie, 2017. Resilience through variability in Northwest India's Urban and Post-Urban Landscape (3200–1500 B.C.): Preliminary insights from the TwoRains Project, **AAA Conference**, Washington DC, 29 November - 03 December.

Riera, S.; Miró, C.; **Orengo, H.**; Fàbregas M.; Santos M.A.; Livarda, A.; Bros, V.; Veropoulidou, R.; Reed, J.; Picornell, Ll.; Banks, P. & Julià, R. 2017. The Archaeobiology, Palaeoenvironment and water regime of the Rec Comtal, the “artificial” watercourse of Barcelona. **Mediterranean Palynology Symposium 2017**, 4-6 of September, Barcelona.

Garcia, A.; **Orengo, H.A.**; Krahtopoulou, A. and Dimoula, A. 2017. The Kambos project. Remote sensing applications and archaeological approaches for the reconstruction of the disappeared cultural record of the Western Thessalian plain. **Society for American Archaeology 82nd Annual Meeting**. March 29th – April 2nd, Vancouver, Canada.

Petrie, C.A.; **Orengo, H.A.**; Taylor, H.; Weeks, L.R. & Wilkinson, T.C. 2017. Crossing the plateau: movement, interaction, interconnection, & transmission on the Iranian plateau in prehistory. Empty Spaces or Creative Interfaces? A multi-scalar perspective on current dryland archeology. **SimulPast and CaSEs workshop on socio-ecological systems**, Universitat Pompeu Fabra (UPF). 15th – 17th of February. Barcelona, Spain.

Riera-Mora, S.; **Orengo, H.**; Cañellas, N.; Livarda, A.; Krahtopoulou, A.; Veropoulidou, R.; Picornell, Ll. & Tzevelekidi, V. 2017. Life Beyond the Palace: Managing the Territory of Minoan Palaikastro, Crete. **Joint Annual Meeting of the Archaeological Institute of America (AIA) and the Society for Classical Studies**. 5th - 8th of January. Toronto, Canada.

Livarda, A.; Veropoulidou, R.; Tzevelekidi, V.; Tsoraki, Ch.; Picornell, Ll. Riera-Mora, S.; Cañellas, N.; Kulick, R.; Kriti, A.; Andonova, M.; Trivizas, M. & **Orengo, H.** 2017. Minoan Foodways: A Culinary Map of Palaikastro, Crete. **Joint Annual Meeting of the Archaeological Institute of America (AIA) and the Society for Classical Studies**. 5th - 8th of January. Toronto, Canada.

Petrie, C.; Bates, J.; Dixit, Y.; French Ch.; Hodell, D.A.; Jones, P.; Lancelotti, C.; Lynam, F.; Neogi, S.; **Orengo, H.**; Pandey, A.K.; Parikh, D.; Pawar, V.; Redhouse, D.I.; Pratap Singh, D. & Nath Singh, R. 2017. Land, Water and Settlement and TwoRains: multi-disciplinary approaches to exploring human/environment relationships in Indus northwest India. **British Association of Near Eastern Archaeology conference 2017**. 4th - 6th of January. University of Glasgow, UK

Orengo, H.A. & Petrie, C.A. 2016. Setting up the scene: remote sensing and GIS-based topographic analysis applied to the analysis of palaeohydrography and site distribution in the Punjab. **Allchin Symposium on South Asian Archaeology**. McDonald Institute for Archaeological Research, & The Ancient India and Iran Trust, 2nd -3rd of December. Cambridge, UK.

Nieto, A.; Valenzuela, S.; **Orengo, H.A.**; Salazar, N. 2016. Camins Ancestrals? Aportacions de l’arqueologia a l’estudi dels orígens de la transhumància a Catalunya. **I Congrés de transhumància de Catalunya**. Fundació del Món Rural & Institut per al Desenvolupament i la Promoció de l’Alt Pirineu i Aran. 7th of October. Lleida, Spain.

Knappett, C.; Momigliano, N.; Livarda, A.; Cunningham, T.; Letesson, Q. & **Orengo, H.** 2016. ‘Town and landscape at Palaikastro: results from new investigations, 2012-2016’ **12th International Congress of Cretan Studies**, 21-5th of September. Heraklion, Greece.

Orengo, H.A.; Krahtopoulou, A.; Dimoula, A.; Garcia-Molsosa, A.; Palaiochoritis, K.; Papadias, Y.; Saridaki, N. & Vliora E. 2016. ‘Reconstructing the Lost Prehistoric and Classical Landscapes of Western Thessaly, Central Greece, Through Combined Historic Aerial Photography, Remote Sensing, GIS and Archaeological Survey’ **4th International Landscape Archaeology Conference**, Department of Archaeology and Ancient History, Uppsala University. 23-25th of August. Uppsala, Sweden.

Palet, J.M.; Garcia, A.; **Orengo, H.A.**; Riera, S.; Polonio, T.; Euba, I. & Julià, R. 2016. ‘Livestock activities in Eastern Pyrenees high mountains areas (Núria and Coma de Vaca valleys, Catalonia): the human shaping of a Cultural

Landscape' **4th International Landscape Archaeology Conference**, Department of Archaeology and Ancient History, Uppsala University. 23-25th of August. Uppsala, Sweden.

Colominas, L.; Garcia, A.; **Orengo, H.A.** & Palet, J.M. 2016. 'Grasslands, huts and sheep: Animal husbandry in the eastern Pyrenees during the Early Roman period. An interdisciplinary approach' **4th International Landscape Archaeology Conference**, Department of Archaeology and Ancient History, Uppsala University. 23-25th of August. Uppsala, Sweden.

Orengo, H.A.; Garcia, A.; Miret, M.; Halstead, P.; Riera, S.; Valenzuela, S. Ejarque, A.; Bosch, D.; Salazar García, D.C.; Muñoz, J.; López, D. & Jornet, R. 2016. 'Pastoral impact and landscape shaping in coastal Mediterranean mountains: rhythms, intensity and sociocultural factors' **4th International Landscape Archaeology Conference**, Department of Archaeology and Ancient History, Uppsala University. 23-25th of August. Uppsala, Sweden.

Petrie, C.A.; **Orengo, H.A.** & Singh, R.N. 2016. 'From Land, Water and Settlement to TwoRains: exploring human/environment relationships in Indus northwest India' **23rd European Association for South Asian Archaeology and Art Conference**. Cardiff, UK. 4-8th of July.

Orengo, H.A. 2016. 'The Human Sphere: digital investigations on the origin and development of anthropogenic landscapes' Term inaugural **George Pitt-Rivers Laboratory Seminar**. McDonald Institute for archaeological Research, University of Cambridge. 22nd of April.

Orengo, H.A. 2016. 'Landscapes of the past: new digital methods for their reconstruction and interpretation' Invited **MARS research seminar** at the Humanities Research Institute of the University of Sheffield. 16th March 2016.

Orengo, H.A. 2016. 'Water management strategies in the Mediterranean from Minoan Bronze Age to Roman Hispania'. Invited workshop presentation for the international project **HYDROMED**. Aix-en-Provence, France. 10th-11th of March.

Krahtopoulou, N. & **Orengo, H.A.** 'Hidden and unexpected riches: re-discovering the erased cultural landscapes of western Thessaly by aerial and pedestrian survey'. Invited **Upper House Seminar at the British School of Athens**. 9th November 2015. Athens, Greece.

Riera, S.; Livarda, A.; Picornell, Ll.; Julià, R.; Ramos, J.; Miró, C.; **Orengo, H.**; Nadal, J. & Marlasca, R. 2015. 'Between the town and the countryside: bioarchaeology and geomorphology of the suburban littoral landscape in Roman and Medieval Barcelona' **Mediterranean Palynology Symposium 2015**. 8th of September 2015. Rome, Italy.

Riera, S.; Livarda, A.; Picornell, Ll.; Julià, R.; Ramos, J.; Miró, C.; **Orengo, H.**; Nadal, J. & Marlasca, R. 2015. 'Entre el camp i la ciutat: caracterització arqueobiològica i geomorfològica del paisatge suburbà litoral de la Barcelona romana i medieval' **III Reunió Oikos de Bioarqueologia**. Catalan Association of Bioarchaeology and University of Barcelona. 16th of May 2015, Barcelona, Spain.

Orengo, H.A. 2015. 'The pastoral landscapes of north-eastern Spain: long-term multidisciplinary approaches and current research perspectives'. Invited presentation at the workshop '**Humans, livestock and their landscape: past, present and future**' organised by U. Albarella & A. Hadjikoymis and sponsored by the British Academy and the Faculty of Arts and Humanities, University of Sheffield. 5th May 2015.

Orengo, H.A.; Halstead, P.; Riera, S. & Palet, J.M. 2015. 'Invited presentation at the workshop '**Estudis transdisciplinars sobre ramaderia i pastoralisme**' organised by the Institute of Human Palaeoecology and Social Evolution (IPHES) and the Catalan Institute of Classical Archaeology (ICAC). 23th February 2015.

Orengo, H.A.; Palet, J.M.; Ejarque, A. & riera, S. 2015. 'Gestió de l'aigua i pràctiques agrícoles de l'edat del ferro a època romana a l'est de la Península Ibèrica: estudis en curs i perspectives de recerca'. Invited presentation at the workshop '**Water Archaeology II**' organised by the Institut de l'Aigua, Universitat de Barcelona (Spain), 18th February 2015.

Orengo, H.A. 2015. 'Network archaeology: connecting landscapes from Neolithic Greece to Roman Britain'. Invited research seminar at Sheffield's Department of Archaeology **Tuesday Lunchtime Lecture Series**. 17th February 2015.

Livarda, A. & **Orengo, H.A.** 2014. 'Transporting food plants. A network and spatial analysis approach for the integration of archaeobotanical and landscape data of Roman Britain' **The Big Picture: Archaeology, Science and the Environment**. Association of Environmental Archaeology Conference, 7-9th of November 2014, Plymouth, UK.

Garcia, 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. Workshop Dando sentido a la prospección arqueológica (Making sense of archaeological survey). University of Jaén, 13-14 November 2014, Jaén, Spain.

Orengo, H.A. & Palet, J.M. 2014. 'Introduction: archaeomorphology as multidisciplinary, long-term landscape archaeology' **3rd International Landscape Archaeology Conference**. Organised by the KNIR (Royal Netherlands Institute in Rome) and the VU University Amsterdam. 17-20th of September, Rome, Italy.

Orengo, H.A. & Krahtopoulou, A. 2014. 'Land reclamation and the archaeological record of central-western plain of Thessaly, central Greece' **3rd International Landscape Archaeology Conference**. Organised by the KNIR (Royal Netherlands Institute in Rome) and the VU University Amsterdam. 17-20th of September, Rome, Italy.

Orengo, H.A. & Livarda, A. 2014. 'From the road to the network: novel approaches to trade and communication in Roman Britain' **3rd International Landscape Archaeology Conference**. Organised by the KNIR (Royal Netherlands Institute in Rome) and the VU University Amsterdam. 17-20th of September, Rome, Italy.

Orengo, H.A. 2014. 'Remote sensing and the study of Mediterranean landscapes: moving forward through multidisciplinary approaches' Invited public lecture as part of the Symposium '**Archaeology from the Sky**' organised by Leiden University and the Royal Netherlands Institute in Rome. 28th May, Rome, Italy.

Orengo, H.A. 2014. 'Hydraulic structures and water management systems in Roman Barcino (Barcelona)'. Invited presentation at the workshop '**Water Archeology: ancient hydraulic structures**' organised by the Water Research Institute, University of Barcelona. 7th May, Barcelona, Spain.

Orengo, H.A. 2014. 'Roman ideas and ideals of landscape: transported landscapes, imported landscapes and glocalization'. 24th **Theoretical Roman Archaeology Conference**. 27-30 March, University of Reading, UK.

Ortega, M.J.; **Orengo, H.A.** & Palet, J.M. 2014. 'Roman undercurrents in the configuration of Valencia's cultural landscape (Eastern Spain)'. 24th **Theoretical Roman Archaeology Conference**. 27-30 March 2014, Reading, UK.

Orengo, H.A. & Cortés, A. 2014. 'El temple i el fòrum de Barcino. Arguments per a una reinterpretació'. Invited public lecture at the **Diàlegs d'Història Urbana i Patrimoni** del MUHBA. 10 March 2014, Barcelona, Spain.

Knappett, C.; Cunningham, T.; Letesson, Q.; Livarda, A.; Momigliano, N. & **Orengo, H.** 2014. '2013 excavations at Palaikastro, East Crete' 115th **Annual Meeting of the Archaeological Institute of America**. Archaeology at Work. 2-5 January 2014, Chicago, Illinois, US.

Knappett, C.; Cunningham, T.; Letesson, Q.; Livarda, A.; Momigliano, N. & **Orengo, H.** 2013. '2013 excavations at Palaikastro, East Crete', Oral presentation in the **3rd Meeting for the Archaeological Work in Crete**, 5-8 December 2013, Rethymno, Crete, Greece.

Orengo, H.A. 2013. 'Using GIS for the Study of Cultural Landscapes'. Invited presentation at the workshop **People/Event/Place: Mapping Experience in Past and Present**, organised by the University of Nottingham, AHRC and Horizon. 4 December 2013, Nottingham, UK.

Livarda, A. & **Orengo, H.** 2013. 'Medieval food webs: a network analysis approach'. Invited oral presentation to the '**Oxford Medieval Food Group**', 30 November 2013, Rewley House, Oxford, UK.

Palet, J.M.; **Orengo, H.A.** & Garcia, A. 2013. Explotación y ocupación de espacios altimontanos pirenaicos en época romana: visiones desde la arqueología del paisaje. IV Convegno Internazionale di Studi Veleiati. 20-21 of September, Veleia, Italy.

Livarda, A.; **Orengo, H.A.** & Davis, A. 2013. Neighbourhoods of flavour in Roman London. 16th **Conference of the International Workgroup for Palaeoethnobotany**. 17-22 of June, Thessaloniki, Greece.

Orengo, H.A.; Riera, S.; Ortega, M.J. & Palet, J.M. 2013. Landscape use and coastal agricultural dynamics from Iberian to Roman period. Approaches and preliminary results of the Valentia Landscape Project. XVIII **Congreso Internacional de Arqueología Clásica**. 13-17 of May, Mérida (Spain).

Orengo, H.A. & Miró, C. 2013. 'Captación, distribución, uso y evacuación del agua en la Barcelona romana' in **Nuevos enfoques de la ingeniería hidráulica romana**. Actualidad de las investigaciones en Francia y España. 15-16 February, Toulouse (France).

Knappett, C.; Livarda, A.; **Orengo, H.A.**; Momigliano, N. & Bank, Ch. 2013. 'Palaikastro: Palace, Town, and Landscape in Bronze Age East Crete'. **Joint Annual Meeting of the Archaeological Institute of America and the American Philological Association**. Seattle, United States. January 3-6, 2013.

Palet, J.M. & **Orengo, H.A.** 2012 'La configuració d'un paisatge cultural Patrimoni de la Humanitat a la Vall del Madriu-Perafita-Claror: visions des de l'Arqueologia del paisatge' in **6ns Debats de Recerca. La recerca sobre el paisatge a Andorra**. Societat Andorrana de Ciències. 12-13 December, Andorra la Vella (Andorra).

Orengo, H.A. 2012. 'Ancient landscape reconstruction through digital techniques: multidisciplinary approaches in landscape archaeology' invited presentation in Séminaire IMAGERIE du Réseau Inter-MSH ISA: **Information Spatiale en Archéologie**. 19-20 November, Clermont-Ferrand (France).

Orengo, H.A. 2012. 'New techniques in classical archaeology: reconsidering Roman Barcelona' Invited **Research Seminar** in the Department of Archaeology, University of Nottingham. 17th of October 2012.

Orengo, H.A. 2012. 'Agricultural landscape dynamics from the Iron Age to the Roman period at the Spanish eastern coast. The potential of GIS hydrological modelling in understanding changing patterns of land use' in **2nd International Landscape Archaeology Conference**, Freie Universität, 6-9 June, Berlin (Germany).

Julià, R.; Palet, J.M.; Ejarque, A.; **Orengo, H.A.**; Miras, Y.; Garcia, A.; Riera, S.; Allée, Ph; Reed, J.; Marco, J.; Marqués, M.A.; Furdada, G. & Muntaner, 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)' in **2nd International Landscape Archaeology Conference** Freie Universität, 6-9 June, Berlin (Germany).

Orengo, H.A. 2012. 'Archaeological approaches to the study of Mediterranean cultural landscapes' Invited talk in the Department of Geography, University of Nottingham. 28th May, Nottingham (UK).

Orengo, H.A. & Palet, J.M. 2012. 'New advances in the detection of centuriated field systems: beyond remote sensing' long paper in **40th Annual Conference on Computer Applications and Quantitative Methods in Archaeology**, 26-30 March, Southampton (UK).

Julià, R.; Palet, J.M.; Ejarque, A.; **Orengo, H.A.**; Miras, Y.; Riera, S.; Reed, J.; Marco, J.; Allée, Ph.; Marques, M.A.; Furdada, G.; Bal-Serin, M-C.; Muntaner, J. 2012. 'Complémentarités mer/montagne dans un bassin-versant méditerranéen (Pyrénées orientales) au cours de l'Holocène supérieur' in **Colloque international AFEQ Quaternaire n° 8**. Variabilité spatiale des environnements quaternaires. Contraintes, échelles et temporalités. 29 February – 2nd of March, Clermont-Ferrand.

Servera Vives, G.; Paradis Grenouillet, S.; **Orengo, H.A.**; Julià, R.; Allée, Ph.; Miras, Y.; Riera, S.; Palet, J.M.; Garcia, A.; Bal-Serin, 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)' in **Colloque international AFEQ Quaternaire n° 8**. Variabilité spatiale des environnements quaternaires. Contraintes, échelles et temporalités. 29 February – 2nd of March, Clermont-Ferrand.

Garcia, A. & **Orengo, H.A.** 2011. 'Els sistemes d'informació geogràfica en l'estudi del paisatge històric: l'exemple dels treballs del Grup d'Investigació en Arqueologia del Paisatge de l'ICAC' in **Quart curs científic i tècnic. Les noves tecnologies a l'arqueologia, Darreres tendències i aplicacions (TIC i SIG)**. Organized by CIAO (Centre d'Investigacions Arqueològiques d'Osona). 17 December, Vic.

Orengo, H.A.; Palet, J.M.; Ejarque, A.; Riera, S. & García, A. 2011. 'The diversity and complementary nature of mountain activities. Towards a characterisation of mountain cultural landscapes' in **Carved mountains. Engraved stones. Contributions to environmental resources archaeology of the Mediterranean mountains**. International Workshop organized by the Laboratory of Environmental Archaeology and History, University of Genoa. 20-22 October, Borzonasca, Genoa.

Julià, R.; Palet, J.M.; Ejarque, A.; **Orengo, H.A.**; Miras, Y.; Riera, S.; Reed, J.; Marco, J.; Allée, P.; Marqués, M.A.; Furdada, G.; Muntaner, J. 2011. 'Analysing past relationships between the mountain and the littoral plain in the Eastern Pyrenees. Preliminary results of the INTERAMBAR project: an integrated palaeo-environmental and landscape archaeology approach' in **XXXIle Colloque International d'Archéologie et d'Histoire d'Antibes**, Variabilités environnementales, mutations sociales: natures, intensités, échelles et temporalités des changements, 20-22 October, Antibes.

Orengo, H.A.; Ejarque, A.; Palet, J.M.; Miras, Y.; Euba, I.; Riera, S.; Julià, R. 2011. 'Past human occupation and land use of highland areas in the Eastern Pyrenees: Archaeology and palaeoenvironment in the Segre valley' in **XXXIle Colloque International d'Archéologie et d'Histoire d'Antibes**, Variabilités environnementales, mutations sociales: natures, intensités, échelles et temporalités des changements, 20-22 October, Antibes.

Riera, S.; Ejarque, A.; Miras, Y.; **Orengo, H.A.**; Palet, J.M.; Julià, R. 2011. 'Cambios ambientales altimontanos en los Pirineos orientales durante el Holoceno: el valle del Madriu-Perafita-Claror (Andorra). Estudio paleoambiental y arqueológico' in **XIII Reunión Nacional de Cuaternario**, 4-7 July, Andorra.

Ejarque, A.; Julià, R.; **Orengo, H.A.**; Palet, J.M.; Riera, S. 2011. 'Impacto humano en un medio altimontano pre-pirenaico durante los últimos 1500 años. Análisis paleoambiental de una turbera alcalina' in **XIII Reunión Nacional de Cuaternario**, 4-7 July, Andorra.

Albiach, R.; **Orengo, H.A.**; Blasco, J.; Ejarque, A. 2011. 'La Carència (Valencia, España) y su territorio. Combinación de metodologías digitales para el análisis arqueológico y la difusión patrimonial' in **Arqueológica 2.0**. III Congreso Internacional de Arqueología, Informática Gráfica, Patrimonio e Innovación, 22-24 June, Sevilla.

Albiach, R.; **Orengo, H.A.**; Ejarque, A. 2011. 'Novetats en la investigació de la Regio Edetania amb el projecte "La Carència. Evolució cronològica i urbanística. Valoració dintre del territori" 2001-2010' in **XIV Assemblea d'Història de la Ribera**, 1-3 April, Alginet, Valencia.

Ejarque, A.; Riera, S.; Miras, Y.; Palet, J.M.; **Orengo, H.A.**; Julià, R.; Alée, P. 2011 'Canvis del paisatge i interaccions socio-ambientals durant l'Holocè en els Pirineus Orientals a partir dels estudis paleoambientals i d'arqueologia del paisatge' in **I Reunió Oikos de Bioarqueologia**. Homenatge a Alcía Estrada, 25-26 March, University of Barcelona, Barcelona.

Orengo, H.A.; Miró, C. 2011. 'On how Barcino lost an aqueduct. LCR as an exploratory tool in the analysis of Roman aqueducts' in **Computational approaches to movement in archaeology**. Theory, Practice and Interpretation of factors and effects of long term landscape formation and transformation. Berlin, 6 of January, TOPOI Research Area, Freie Universitaet Berlin.

Albiach, R.; **Orengo, H.A.**; Ejarque, A. 2010. '10 anys d'intervencions a l'oppidum ibèric i romà de la Carència i el seu territori' in **III Jornades d'Arqueologia de València i Castelló**. València, 10-12 of December, 2010. Regidoria de Cultura de l'Ajuntament de València and Secció d'Arqueologia del Col·legi Oficial de Doctors i Llicenciats en Filosofia i Lletres i en Ciències de València i Castelló.

Alapont, Ll.; **Orengo, H.A.**; Pitarch, A. 2010. 'El poblament d'època romana en l'Horta Sud' in **III Jornades d'Arqueologia de València i Castelló**. València, 10-12 of December, 2010. Regidoria de Cultura de l'Ajuntament de València i la Secció d'Arqueologia del Col·legi Oficial de Doctors i Llicenciats en Filosofia i Lletres i en Ciències de València i Castelló.

Orengo, H.A.; Albiach, R.M.; Palet, J.M.; Ejarque, A.; Pitarch, A. 2010. 'Anàlisi de dinàmiques d'ocupació ibero-romanes al nord-est de la Península Ibèrica a partir de l'arqueologia del paisatge' in **Simposi Internacional L'ager Tarraconensis. Paisatge, poblament, cultura material i història**. Tarragona, 27 and 28 of October, 2010. Institut d'Estudis Catalans and ICAC.

Palet, J.M.; **Orengo, H.A.**; Riera, S. 2010. 'Centuriació, modelatge i transformació del paisatge a l'ager Tarraconensis: resultats d'un programa de recerca integrat' paisatge' in **Simposi Internacional L'ager Tarraconensis. Paisatge, poblament, cultura material i història**. Tarragona, 27 and 28 of October. Institut d'Estudis Catalans and ICAC.

Ejarque, A.; Miras, Y.; Riera, S.; **Orengo, H.A.**; Palet, J.M. 2010. 'The use of non-pollen palynomorphs to assess local highland human impact in southern Pyrenean spaces' in **4th Workshop. Non pollen palynomorphs**, 16-19 of June, Chrono-environment laboratory, CNRS and Université de Franche - Comté, Besançon.

Palet, J.M.; **Orengo, H.A.** 2010. 'Arqueología del paisaje en espacios altimontanos pirenaicos: resultados en el valle de Madriu-Perafita -Claror (Andorra) y en la Sierra del Cadí (Alt Segre – Pirineo catalán)' in **Desarrollo urbano y arqueología del paisaje en los Pirineos romanos**. Benasque (Aragón), 31 of May – 4 of June, ICAC and Centro de ciencias de Benasque Pedro Pascual.

Miró, C.; **Orengo, H.A.** 2010. 'Els aqüeductes de Barcino, estat de la qüestió i noves perspectives d'estudi' in **Seminari Internacional d'Arqueologia Clàssica**, 6ª edició. Tarragona, 12-14 of March, ICAC.

Miras, Y.; Ejarque, A.; **Orengo, H.A.**; Riera, S.; Palet, J.M.; Poiraud, A. 2010. 'Impacts anthropiques sur le paysage et la végétation d'un secteur de haute montagne pyrénéenne (vallée de Perafita, Andorre) au cours de la Préhistoire : approche croisée de l'archéologie du paysage et de la paléoécologie' in **135e Congrès national des sociétés historiques et scientifiques**. Neuchâtel (France), 6-10 of April, Comité des travaux historiques et scientifiques.

Palet, J.M.; **Orengo, H.A.**; Ejarque, A.; Euba, I.; Miras, Y.; Riera, S.; Julià, R. 2010. 'Paysages ruraux antiques de haute montagne: typologies et modes d'exploitation de territoires dans les Pyrénées orientales (chaîne du Cadí, Lleida et vallées du Madriu-Perafita-Claror, Andorre)' in **Colloque AGER IX**, 25-27 March, University of Barcelona (Spain).

Orengo, H.A.; Palet, J.M.; Ejarque, A.; Riera, S.; Albiach, R. 2010. 'Are we Roman? A digital response from a landscape perspective' in **First Landscape Archaeology Congress**, 26-28 January, VU University, Amsterdam (Holland).

Riera, S.; Palet, J.M.; Ejarque, A.; **Orengo, H.**; Miras, Y.; Euba, I.; Julià, R. 2010. 'The Long-Term Shaping of a High Mountain Cultural Landscape in the Eastern Pyrenees (Madriu-Perafita-Claror Valleys, Andorra, and Cadí range, Catalonia): an Integrated Research Program' in **First Landscape Archaeology Congress**, 26-28 January, VU University, Amsterdam (Holland).

Palet, J.M.; **Orengo, H.A.**; Ejarque, A.; Miras, Y.; Euba, I., Riera, S. 2009. 'L'exploitation des ressources des vallées andorranes du Madriu-Perafita-Claror et de la chaîne du Cadí (Pyrénées orientales) depuis le néolithique à partir des données archéologiques et paléoécologiques: mobilité des pratiques et dynamique des paysages culturels' in **2nd Workshop International d'Archéologie du Paysage des Montagnes Européennes. La construction des territoires montagnards. Exploitation des ressources et mobilité des pratiques**. 8-11 October, University of Toulouse le Mirail, Toulouse (France).

Julià, R.; Curras, A.; Zamora, L.; Mezquita, F.; Armengol, J.; Reed, J.; Riera, S.; Marques, M.A.; García-Soto, E.; Ferrero, S.; Pascua, E.; Sánchez-Moreno, E.; **Orengo, H.A.**; Valles, I. 2009. 'The HIDRAM4000 project: land use, human occupation and landscape changes in central Spain during the last 3000 years. The Somolinos lake record (1240 m a.s.l.). Sierra de Pela, Guadalajara province' in **2nd Workshop International d'Archéologie du Paysage des Montagnes Européennes. La construction des territoires montagnards. Exploitation des ressources et mobilité des pratiques**. 8-11 October, University of Toulouse le Mirail, Toulouse (France).

Orengo, H.A.; Palet, J.M.; Ejarque, A.; Albiach, R. 2009. 'The landscapes of Romanization in Eastern Spain: a GIS-based inquiry' in **15th Annual Meeting of the European Association of Archaeologists**. 15-20 September, Riva del Garda (Italy).

Orengo, H.A.; Ejarque, A.; Palet, J.M.; Miras, Y.; Riera, S. 2009. 'Prehistoric landscape dynamics and occupation in the high mountain Pyrenees: an interdisciplinary case-study in the Madriu-Perafita-Claror valleys (Andorra)' in **15th Annual Meeting of the European Association of Archaeologists**. 15-20 September, Riva del Garda (Italy).

Palet, J.M.; Riera, S.; **Orengo, H.A.**; Miras, Y.; Servera, G. 2009. 'Roman centuriation and landscape modelling in the littoral plains of *Barcino* (Barcelona) and *Tarraco* (Tarragona): an interdisciplinary research through the integration of archaeomorphological and environmental data' in **Sistemi centuriale e opere di assetto agrario tra età romana e primo medioevo. Aspetti metodologici, ricostruttivi ed interpretativi**, 10-12 September, University of Bologna

Albiach, R.; **Orengo, H.A.**; Ejarque, A. 2009. 'Una aproximación pluridisciplinar al estudio del paisaje ibérico y romano: el proyecto oppidum la Carència (Valencia, España)' in **Encontro Internacional sobre ciência e novas**

tecnologias aplicadas à arqueologia na villa romana do Rabaçal, Penela, Terras de Sicó, 10-11 July, Espaço-Museu, Rua da Igreja, Rabaçal (Portugal).

Orengo, H.A.; Ejarque, A. 2009. 'Multi-proxy approaches to the study of ancient palaeowetlands: La Carència project (Valencia, Spain)' in **Colloque Aménagement et exploitation des zones humides depuis l'Antiquité. Approches comparées en Europe méditerranéenne et continentale**. 11-13 June, Maison des Sciences de l'Homme, University of Blaise-Pascal (Clermont-Ferrand, France).

Palet, J.M.; **Orengo, H.A.**; Flórez, M.; Riera, S. 2009. 'Gestion des zones humides et aménagement du territoire dans les Plaines littorales de Tarragone, Barcelone, et Ampurias de l'Antiquité au Moyen Age : apports de l'archéologie du paysage' in **Colloque Aménagement et exploitation des zones humides depuis l'Antiquité. Approches comparées en Europe méditerranéenne et continentale**. 11-13 June, Maison des Sciences de l'Homme, University of Blaise-Pascal (Clermont-Ferrand, France).

Riera, S.; Ejarque, A.; Palet, J.M.; **Orengo, H.A.**; Julià, R.; Currás, A.; Miras, Y. 2008. 'Variabilité climatique, changements de l'exploitation du sol et gestion de l'eau en Espagne de 3000 à 1000 ans BP: une approche intégrée des données paléo- environnementales, archéologiques et historiques'. Table ronde: **Changements climatiques dans une perspective historique et systémique des interactions société-environnement naturel dans l'empire romain**. 18-20 November, University of Laval, Quebec (Canada).

Palet, J.M.; **Orengo, H.A.** 2008. 'Arqueomorfologia dels paisatges altimontans. Estudi integrat de paisatges culturals' in **International Seminars of Classical Archaeology: Arqueologia dels paisatges culturals i integració de metodologies SIG**. 17-19 November. Catalan Institute of Classical Archaeology (Tarragona, Spain).

Palet, J.M.; Fiz, I.; **Orengo, H.A.** 2008. 'Arqueomorfologia i metodologies SIG: aplicacions a les centuriacions de l'Ager Tarraconensis' in **International Seminars of Classical Archaeology: Arqueologia dels paisatges culturals i integració de metodologies SIG**. 17-19 November. Catalan Institute of Classical Archaeology (Tarragona, Spain).

Palet, J.M.; **Orengo, H.A.**; Riera, S.; Ejarque, A.; Miras, Y.; Euba, I.; Ricou, F. 2008. «Modelation des systems d'exploitation des paysages culturels montagnards aux vallées du Madriu – Perafita - Claror et La Vansa (Pyrénées orientales)». **Table Ronde: Archéologie de l'espace montagnard : confrontation d'expériences européennes**. 29 September -1 october 2008, Musée - Muséum Départemental Gap (France).

Palet, J.M.; **Orengo, H.A.** Ejarque, A.; Euba, I.; Riera, S. 2008. «Formas de paisaje de montaña y ocupación del territorio en los Pirineos orientales en época romana: estudios pluridisciplinarios en el valle del Madriu-Perafita-Claror (Andorra) y en la Sierra del Cadí (Cataluña)». 22 – 26 September, **XVII Congresso Internazionale di Archeologia Classica**, Associazione Internazionale di Archeologia Classica, Rome (Italy).

Ejarque, A.; Julià, R.; Riera, S.; Palet, J.M.; **Orengo, H.A.** 2008. «Minería, pastoreo i antropización de medios altimontanos pirenaicos durante los últimos 2000 años: estudio multi-proxy de la secuencia de Pradell (Serra del Cadí, Lleida)» in **XVI International A.P.L.E Symposium of Palynology**. 22-25 September, Palma de Mallorca (Spain).

Miras, Y.; Ejarque, A.; Riera, S.; **Orengo, H.A.**; Palet, J.M.; Euba, I. 2008. «Evolución microregional de un paisaje cultural pirenaico durante el Holoceno en base a los datos paleopolínicos y otros indicadores: el valle de Madriu (Andorra)». **XVI International A.P.L.E Symposium of Palynology**. 22-25 September, University of Palma de Mallorca (Spain).

Riera, S.; Currás, A.; Julià, R.; Zamora, L.; Mezquita, F.; Armengol, J.; García-Soto, E.; Reed, J.; **Orengo, H.A.** 2008. «HIDRAM 4000 project: landscape changes in Central Spain (Sierra de Pela, Guadalajara province) during the last

3,000 years, starting from pollen record of Somolinos lake record (1240 m a.s.l.)» in **12th International Palynological Congress**. 30 August-5 September, University of Bonn (Germany).

Ejarque, A.; Miras, Y.; Riera, S.; Palet, J.M.; **Orengo, H.A.**; Euba, I. 2008. «Genesis and Holocene evolution of a high mountain Cultural landscape in the Eastern Pyrenees: a microregional and interdisciplinary case-study in the Madriu valley (Andorra)» in **12th International Palynological Congress**. 30 August-5 September, University of Bonn (Germany).

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Posters

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