

## **Riera Mora, Santiago**

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**Since 2006:** Professor Agregat at the University of Barcelona.

(All publications are available at: <http://barcelona.academia.edu/santiagoriera>)

### **1. RESEARCH LINES:**

- Holocene landscape changes in littoral Mediterranean plains
- Holocene landscape history and socio-environmental interactions in high mountain areas
- Past landscapes and socio-environmental coevolution in mediterranean islands
- Archaeopalynology, plant uses and and plant cultural meanings: funerary contexts
- Calibration, modern analogues and new proxies in palaeoenvironmental studies
- Issyk kul paleoenvironmental study (Kyrgyzstan)

### **2. ACADEMIC TRAINING**

- **1995:** Ph.D. in the Faculty of Geography and History, University of Barcelona. Title of Ph. D. Thesis: *Evolution of the Holocene vegetation landscape in the littoral plain of Barcelona (NE Iberian Peninsula), starting from pollen records.*
- **1990-1991:** Pre-doctoral stays at the Dipartimento di Botanica, Università degli Studi di Roma 'La Sapienza' (Italy) and the Department of Archaeology, University of Durham (UK).
- **1988-1992:** Research Training fellowship at the University of Barcelona. Spanish Ministry of Education and Science.
- **1988:** Graduate in Geography and History. University of Barcelona.

### **3. PROFESSIONAL EMPLOYMENT HISTORY**

- **2001-2005:** Tenure-Track Program Ramón y Cajal at the University of Barcelona.
- **1998-2000:** Postdoctoral fellowship (funded by the Spanish Ministry of Education and Science) at the Botanical Garden of Lisbon (Universidade de Lisboa).
- **1997-1998:** Postdoctoral fellowship at the Department of Plant Biology, University Complutense of Madrid.
- **1996-1997:** Postdoctoral fellowship (funded by the Catalan Government) at the Department of Palaeogeography and Palaeontology, Université Catholique de Louvain-la-Neuve (Belgium).

### **4. TEACHING ACTIVITIES**

#### **4.1. Graduate degree courses**

**2012-2013:** Coordination and teaching of the course *Geoarchaeology, landscape archaeology and territory*. Graduate of Archaeology, University of Barcelona.

**2010-2011:** Coordination and teaching of the graduate course *The Neolithic: the First Productive Societies* (University of Barcelona).

**2003-2011:** Coordination and teaching of the graduate degree course *Historical Analysis of Landscapes* (University of Barcelona).

This course was funded by the Teaching Innovation program of the UB, with the objective to test innovative self-learning techniques in the paleolandscape studies.

**2005-2011:** Graduate course of *Prehistory: from Mesolithic to Iron Age*. University of Barcelona.

#### **4.2. Ms degree courses**

**2012-2013:** Coordination and teaching of the course *Archaeology of biologic natural resources*. Master in Archaeology, University of Barcelona.

**2006-2011:** Coordination and teaching *Archaeobiology* in the Master in Archaeology, University of Barcelona.

**Since 2006:** *Water: Social, Economic, Historical and Law perspectives*, in the Master “Water: Interdisciplinary analyses and sustainable management”. Institute of Water, University of Barcelona.

#### **4.3. Innovative learning projects and publications**

**Riera Mora, S.;** Orengo, H.; Ejarque, A. (2008). *Autoaprendizaje basado en la investigación. La historia del paisaje cultural del massís del Garraf a partir de la resolució de casos (Self-learning based on research: the history of cultural landscape at the Massís del Garraf, starting from resolution of real case-study)*. Collection OMADO-Teaching objects and materials, University of Barcelona.

**Riera Mora, S.** (in press). *Aprendizaje transdisciplinar con la resolució de casos basados en la investigación de campo: la historia del paisaje del massís del Garraf*. International Workshop on History Learning. University of Barcelona. July 2007. Barcelona.

### **5. RESEARCH**

#### **5.1. HOLOCENE LANDSCAPE CHANGES IN MEDITERRANEAN PLAINS**

##### **5.1.1. Projects**

**2011-2013:** *The Valentia landscape*. NARF, Univeristy of Nottingham. Coordinator: Dr. H. Orengo. Rsearcher.

**2009-2010:** *Cultural landscapes as additional values for local farming products*. 2009PBR-00063 (Ayudas Batista y Roca, AGAUR, Catalan Government). Coordinator: S. Riera (UB).

**2006-2008:** *Study of ancient landscapes in the Ager Tarraconensis (NE Spain)*. Research project funded by the private company ACESA-AUCAT. Coordinators: J. Guitart, M. Prevosti (ICAC). Researcher.

##### **5.1.3. Publications**

SOBERÓN, M.; PUJOL, M.; LLERGO, Y.; **RIERA, S.**; JULIÀ, R.; DOMÍNGUEZ, M. (2012). El Barceloneta I. Una embarcació medieval a tingladillo en Barcelona. *Itsas Memoria. Revista de Estudios Marítimos del País Vasco*, 7, Untzi Museoa-Museo Naval, Donostia-San Sebastián: 411-422.

PALET, J.M.; JULIÀ, R.; **RIERA, S.**; ORENGO, H.A.; PICORNELL, LL.; LLERGO, Y. (2012). The role of the Montjuïc promontory (Barcelona) in landscape change: human impact during Roman times. In: BERTONCELLO, F. and BRAEMER, F. (eds.), *Variabilites environnementales, mutations sociales.: Nature, intensités, échelles et temporalités des changements*. Éditions APDCA, CNRS: 341-352.

JULIÀ, R.; **RIERA, S.** (2012). Proposta d'evolució del front marítim de Barcelona durant l'Holocè, a

partir de la integració de dades geotècniques, intervencions arqueològiques i cronologies absolutes. *QUARHIS*: 8: 16-32.

PALET, J.M.; ORENCO, H.A.; **RIERA S.** (2010). The application of centurial systems and methods of agrarian organization from the Roman period to the early middle ages. *Agri Centuriati, An international journal of landscape archaeology*, 7: 113-129.

JULIÀ, R.; **RIERA, S.** (2010). Usos del sòl i activitats productives a Barcelona a partir de l'anàlisi paleoambiental de la llacuna litoral medieval del Pa de Palau. *Quarhis*, 6: 164-177.

**RIERA, S.**; MIRAS, Y.; GIRALT, S. ; SERVERA, G. (2010). Evolució del paisatge vegetal al Camp de Tarragona: estudi pol·línic de la seqüència sedimentològica procedent de l'aiguamoll de la Sèquia Major (la Pineda, Vila-seca). In: M. Prevosti and J. Guitart (eds.), *Ager Tarraconensis 1. Aspectes històrics i marc natural. Historical aspects and natural setting. Documenta 16*, Catalan Institute of Classical Archeology.

**RIERA, S.**; ESTEVEZ, X.; NADAL, J. (2007). Systèmes d'exploitation et anthropisation du paysage méditerranéen du Néolithique Ancien à la Première Âge du Fer: le cas de la dépression du Penedès (NE de la Péninsule Ibérique). In: H. Richard, M. Magny, C. Mordant (eds.), *Environnements et cultures à l'Âge du Bronze en Europe Occidentale. Éditions du Comité des travaux historiques et scientifiques (CTHS). Documents Préhistoriques n°21*: 121-142. Paris

**RIERA, S.**; PALET, J.M. (2005). Aportaciones de la Palinología a la historia del paisaje mediterráneo: estudio de los sistemas de terrazas en las Sierras Litorales Catalanas desde la perspectiva de la Arqueología Ambiental y del Paisaje. In: S. Riera, R. Julià (eds.), *Transdisciplinary approach to a 8,000-yr history of land uses. 1 st Workshop of the Network of Cultural Landscapes and Environmental History. Monografies del SERP*, 5: 55-74.

**RIERA MORA, S.**; LÓPEZ SÁEZ, J.A.; BOSCH ARGILAGÓS, J. (2004). Premières traces d'anthropisation au long du littoral méditerranéen ibérique, la vallée de l'Ebre et les Îles Baléares. In: H. Richard (dir.), *Néolithisation précoce. Premières traces d'anthropisation du couvert végétal à partir des données polliniques. Collection Annales Littéraires 777, Série Environnement, sociétés et archéologie 7*: 195-219. Presses Universitaires de Franche-Comté, Ministère de Culture, CNRS. Besançon.

PALET, J.M.; **RIERA, S.** (1997). Changements du paysage dans la plaine de Barcelone (Catalogne) de la Protohistoire au Moyen Âge. In: J. Burnouf, J-P. Bravard & G. Chouquer (eds), *La dynamique des paysages protohistoriques, antiques, médiévaux et modernes*, CNRS: 259-270.

**RIERA MORA, S.** (1995). *Evolución del paisaje vegetal holoceno en el Pla de Barcelona, a partir de los datos polínicos. Evolution of the Holocene vegetation landscape in the littoral plain of Barcelona (NE Iberian Peninsula), starting from pollen records*. Publications of Ph.D., Thesis. 2525. University of Barcelona. Barcelona.

**RIERA-MORA, S.**; ESTEBAN-AMAT, A. (1994). Vegetation history and human activity during the last 6000 years on the central Catalan coast (northeastern Iberian Peninsula). *Vegetation History and Archaeobotany*, 3: 7-23.

**RIERA, S.**; LLERGO, Y.; PICORNELL, L. (in press). The transformation of vegetal landscape. In: J.M. Palet (ed.) *Paisatge històric a la muntanya de Montjuïc: resultats del projecte La Satalia*. Materials d'Urbanisme i Ciutat, Urbanisme i Infraestructures, Ajuntament de Barcelona, Barcelona.

## **5.2. HOLOCENE LANDSCAPE HISTORY AND SOCIO-ENVIRONMENTAL INTERACTIONS IN HIGH MOUNTAIN AREAS**

### **5.2.1. Projects**

**2013-2015: Teramar project:** *Socio-environmental interactions during the Holocene: landscape dynamics, human adaptations and complementarity of natural resources in the Ter basin* (HAR2012-39087-C02-01, Spanish Government). Coordinator and Main Researcher of subproject 1. Main researchers: S. Riera and J.M. Palet (ICAC).

**2011-2012: CarAmbAr project:** *Comparaisons paysagères micro-régionales depuis le Néolithique dans les Pyrénées orientales (Logique de versant nord / sud): coordination du projet Carança et du programme InterAmbAr*. Projets MSH-2011: PROGRAMMES NOUVEAUX ARRIVANTS. Coordinators: Dra. Marie-Claude Bal, Dr. Yannick Miras (Geolab UMR6042/CNRS, Université Blaise-Pascal, France). Researcher.

**2009-2012: InterAmbAr project:** *Study of climate, society and environment interactions in a NE Iberian Peninsula during the Holocene based on palaeoenvironmental and archeological data integration* (CGL2009-12676-C02-01, Spanish Ministry of Education and Science). Coordinators: R. Julià (IJA-CSIC) and J.M.Palet (ICAC). Researcher.

**2010-2012: Pratiques et mobilités territoriales sur le Mont Lozère depuis le Néolithique. Gestion des ressources et services rendus aux sociétés du passé dans une moyenne montagne méditerranéenne.** PCR programme. Coordinator: Dr. Ph. Allée (GEOLAB-UMR/CNRS, Université de Limoges). Researcher.

**2005-2008: HIDRAM 4000 project.** *Environmental change, water availability and socio-economic repercussions during the last 4000 years: integration of lacustrine and archeology records*. (CGL2005-06358-C02-02, Spanish Ministry of Education and Science). Main Researchers: S. Riera (UB) and R. Julià (IJA-CSIC).

**2004-2010: The World Heritage Madriu valley (Pyrenees, Andorra): origin and management of a high mountain cultural landscape.** Government of Andorra and Catalan Government (EXCAVA Program). Coordinators: J.M. Palet (ICAC) and S. Riera (UB).

**2002-2004: INVACAS Project.** *Interactions between environmental variability and socio-economic changes in the Mediterranean region of the Iberian Peninsula, from 4000 to 2000 years BP*. (REN2002-04592-C02, Spanish Ministry of Education and Science). Main Researchers: S. Riera (UB) and R. Julià (IJA-CSIC).

### 5.2.2. Publications

PALET, J.M.; JULIA, R.; **RIERA, S.**; EJARQUE, A.; ORENGO, H.A.; MIRAS, Y.; GARCIA, A.; 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: W. Bebermeier, R. Hebenstreit, E. Kaiser, J. Krause (eds.), *Landscape Archaeology. Proceedings of the International Conference, Berlin, 6th – 8th June 2012*. *eTopoi, Journal of Ancient Studies* 3.

CURRÀS, A., ZAMORA, L., REED, J.M., GARCÍA-SOTO, E., FERRERO, S., ARMENGOL, X., MESQUITA-JOANES, F., MARQUÉS, M.A., **RIERA, S.**, JULIÀ, R. (2012). Climate change and human impact in Central Spain during Roman times: high resolution multi-proxy analysis of a tufa lake record (Somolinos, 1280 m asl). *Catena* 89: 31–53.

ORENGO, H.A.; PALET, J.M.; EJARQUE, A.; MIRAS, Y.; **RIERA, S.** (2012). Pitch production during the Roman period: an intensive mountain industry directed towards long distance trade?. *Antiquity*. (Accepted, in press).

EJARQUE, A.; MIRAS, Y.; **RIERA, S.**; PALET, J.M.; ORENGO, H. (2010). Testing micro-regional variability in the Holocene shaping of high mountain cultural landscapes: a palaeoenvironmental

case-study in the eastern Pyrenees. *Journal of Archaeological Science* 37: 1468–1479.

MIRAS, Y.; EJARQUE, A.; ORENGO, H.; **RIERA, S.**; PALET, J.M.; POIRAUD, A. (2010). Prehistoric impact on landscape and vegetation at high altitudes: an integrated paleoecological and archaeological approach in the eastern Pyrenees (Perafita valley, Andorra). *Plant Biosystems*, 144: 946-961.

**RIERA, S.**; CURRAS, A.; EJARQUE, A.; PALET, J.M.; ORENGO, H.; JULIA, R.; MIRAS, Y. (2009). Variabilité climatique, occupation du sol et gestion de l'eau en Espagne de l'Âge du Fer à l'époque médiévale: intégration des données paléo-environnementales et archéologiques. In: E. Hermon (ed.), *Changements climatiques dans une perspective historique et systématique des interactions société-environnement naturel dans l'empire romain*. Université Laval, Québec (Canada). *Editoriale Scientifico de Naples*: 251-280.

EJARQUE, A.; JULIÀ, R.; **RIERA, S.**; PALET, J.M.; ORENGO, H.; MIRAS, Y.; GASCÓN, C. (2009). Tracing the history of highland human management in the eastern Pre-Pyrenees: an interdisciplinary palaeoenvironmental study at the Pradell fen, Spain. *The Holocene*, 19: 1241–1255.

JULIÀ, R.; LUQUE, J.A.; **RIERA, S.**; ALEJANDRO, J.A. (2007). Climatic and land use changes in the NW of Iberian Peninsula recorded in a 1,500-yr record from Lake Sanabria. *Contributions to Science*, 3(3): 355-370.

MIRAS, Y.; EJARQUE, A.; **RIERA, S.**; PALET, J.M.; ORENGO, H.; EUBA, I. (2007). Dynamique holocène de la végétation et occupation des Pyrénées andorranes depuis le Néolithique ancien d'après l'analyse pollinique de la tourbière de Bosc dels Estanyons (2180 m, Vall del Madriu, Andorre). *C.R. Acad. Sci. Paris Palevol* 6: 291–300.

**RIERA, S.** (2006). Cambios vegetales holocenos en la región mediterránea de la Península Ibérica: ensayo de síntesis. *Revista Ecosistemas* 1/2006 (Electronic).

**RIERA, S.**; JULIÀ, R.; WANSARD, G. (2004). 2,000-yr environmental history of a karstic lake in the Mediterranean Pre-Pyrenees: the Estanya lakes (Spain). *Catena*, 55: 293-324.

### **5.3. PAST LANDSCAPES AND SOCIO-ENVIRONMENTAL COEVOLUTION IN MEDITERRANEAN ISLANDS**

#### **5.3.1. Projects**

**2010-2011:** *2,500 years of landscape history of the northern littoral of Minorca Island: environmental change and human activities from Prehistoric times*. Minorca Research Institute. Coordinator: S. Riera (UB)

**2009-2010:** *(Pre)historic cultural landscapes of Minorca Island. An approach to plant landscape evolution from pollen data sets*. Minorca Research Institute. Coordinators: G. À. Servera (UIB) and S. Riera (UB)

**2008-2009:** *Cultural landscape shaping and plant variability in the north of the Minorca Island*. Minorca Research Institute. Coordinators: G. À. Servera (UIB) and S. Riera (UB).

#### **5.3.2. Publications**

PICORNELL GELABERT, LL.; SERVERA, G.; **RIERA, S.**; ALLUÉ, E. (accepted, in press). Archaeobotanical research in the Prehistoric Balearic Islands: landscape changes and cultural patterns of plant use. *British Archaeological Reports, International Series*.

### **5.4. ARCHAEPALYNOLOGY, PLANT USES AND AND CULTURAL MEANINGS: FUNERARY**

## CONTEXTS

### 5.4.1. Projects

**2010-2012:** *Palynology of the Medieval tombs of the King Peter the Great and Blanca d'Anjou. Restoration of Santes Creu Monastery Royal Tombs.* Departament of Culture, Catalan Government and Museum of the History of Catalonia. Coordinator: Marina Miquel (Museum of History of Catalonia). Supervisor of palynological studies: S. Riera.

**2005-2008:** *Excavation, palaenvironmental study and site management of "Cova des Pas", a Bronze Age collective burial site (Minorca, Balearic Islands).* Consell Insular de Menorca, Minorca Research Institute, Caixa de Catalunya, Catalan Government (EXCAVA program). Coordinators: V. Guerrero; M., Calvo (UIB); J.M. Fullola, M<sup>a</sup>.A. Petit (UB).

**2003:** *Pollen analyses of sediments contained in the Islamic water channel of La Casera (Lleida, Catalonia).* Gestor de Infraestructuras Ferroviarias-GIF, Ferrovial S.A., University of Lleida.

**2002:** *Pollen analyses of the Minferri Iron Age settlement (Juneda, Lleida, Catalonia).* Gestor de Infraestructuras Ferroviarias-GIF, Ferrovial S.A., University of Lleida.

### 5.4.2. Publications

LLERGO, Y., **RIERA, S.**, SERVERA, G.; MIRAS, Y.; SUBIRANAS, C., GARCIA-BIOSCA, J.E.; MIGUEL, M., PICORNELL, LL.; CABANIS, M. (in press). The application of pollen analyses in the study of burials and related textiles. The studied cases of King Peter the Great Medieval grave and the prehistoric funerary cave of Cova des Pas (Spain). *Symposium of North European Archaeological Textiles XI. Internationale archäologie*.

PICORNELL, LL.; SERVERA, G.; **RIERA, S.**; ALLUÉ, E. (2011). The study of prehistoric sacred sites and sacred plants. A case study of the funerary mound of Son Ferrer (Majorca, Balearic Islands). In: Pungetti, G.; Oviedo, G. et Hooke, D. (Eds.), *Sacred species and sites. Guardians of biocultural diversity*. Cambridge University Press. Cambridge: 428-434.

**RIERA, S.**; MIRAS, Y.; SERVERA, G. (2008). Anàlisis pol·líniques a la Cova des Pas: l'ús de plantes en les pràctiques funeràries. UNICUM, *Revista de l'Escola Superior de Conservació i Restauració de Béns Culturals de Catalunya*, Barcelona 7: 26-29.

ALONSO, N.; BERGUEDÀ, M.; GENÉ, M.; GÓMEZ, X.; JUAN, J.; JUNYENT, E.; LAFUENTE, A.; LÓPEZ, J.B.; MAZO, C.; MOYA, A.; NADAL, J.; PIQUÉ, R.; **RIERA, S.**; TARTERA, E. (2002). Recuperant el passat a la línia de tren d'alta velocitat. L'assentament protohistòric, medieval i d'època moderna de El Vilot de Montagut (Alcarràs, Lleida). GIF, Ferrovial S.A., Universitat de Lleida. *Pagès Ed.*, 321 pp.

## 5.5. CALIBRATION, MODERN ANALOGUES AND NEW PROXIES IN PALAEOENVIRONMENTAL STUDIES

### 5.5.1. Publications

EJARQUE, A.; MIRAS, Y.; **RIERA, S.** (2011). Modern pollen and non-pollen palynomorph analogues of vegetation and highland grazing activities obtained from surface and dung datasets from the eastern Pyrenees. *Review of Palaeobotany and Palynology*, 167: 123-139.

**RIERA, S.**; LÓPEZ-SÁEZ, J.A.; JULIÀ, R. (2006). Lake responses to historical land use changes in Northern Spain: the contribution of non-pollen palynomorphs in a multiproxy study. *Review of Palaeobotany and Palynology*, 141, pp. 127-137.

## 5.6. ISSYK KUL PALEOENVIRONMENTAL STUDY (KYRGYZSTAN)

## 5.6.2. Publications

GIRALT, S.; **RIERA, S.**; KLERKX, J.; LEROY, S.; JULIÀ, R.; LIGNIER, V.; BECK, C.; DE BATIST, M.; KALUGIN, I.; BOBROV, V.; GAVSHIN, V.; LOMBARDI, S. (2004). *1,000-years of environmental history of Lake Issyk-Kul*. In: J. Nihoul; P. Zavialov (eds.), *Dying and Dead Seas Climatic versus Anthropic causes*. NATO ARW Series. NATO Sci. & Environm Affairs Div Kluwer Acad. Publishers: 253-285.

GIRALT, S.; **RIERA, S.**; JULIÀ, R.; KLERKX, J.; LIGNIER, V.; BECK, C.; DE BATIST, M.; KALUGIN, I. (2002). Recent environmental evolution of the lake Issik-Kul: its natural environment. In: J. Klerkx; D. Mamatchkanov (eds.), *The Issik-Kul Lake: evaluation of the environmental state and its remediation*. NATO ARW: NATO Sci. & Environm Affairs Div. Kluwer Acad. Publishers: 125-145.

## 7. SCIENTIFIC COMETEEES, WORKSHOP ORGANIZATION AND CHAIR OF SESSIONS

**2013:** Member of the Scientific Committee of the *2nd International APLE-APLF Congress, Pollen Biotechnology, Diversity and Function in a Changing Environment*, (Madrid, Spain)

**2012:** Member of the Scientific Committee of the journal: *MATerialidadeS, Perspectivas actuales en cultura material*, Open Journal System of the University of Balearic Islands.

**2012:** Member of the Scientific Committee of the VII Congreso Español de Biogeografía (Planes de Son, Pyrenees, Lleida, Spain)

**2011:** Member of the Scientific Committee of the XIII Reunión Nacional de Cuaternario (AEQUA), Andorra la Vella (Andorra).

**2008:** Coordinator of the 1<sup>st</sup> International Workshop on Landscape Archaeology of European Mountain Areas: Current Research and Future Perspectives. Tarragona (Spain). Institut Català d'Arqueologia Clàssica, Spanish Ministry of science and Education, Catalan Landscape Observatory.

**2006-** Chair of Session and communications at the XV Congress International Union for Prehistoric and Protohistoric Sciences (UISPP), C88: Rhythms and causalities of anthropisation dynamic in Europe between 6500 and 500 BC. Sociocultural and/or climatic assumptions. Lisboa.

**2005:** Coordinator of the 3rd Workshop of the Network of Cultural Landscape and Environmental History, *Culture terraces: the shaping of cultural landscape and a tool for local development*. Museum of Wine Cultures. Vilafranca del penedès, Barcelona (Spain).

**2004:** Coordinator of the 2nd Workshop of the Network of Cultural Landscape and Environmental History : *Man and Water: 4000-years history of water management in the Mediterranean region*. University of Barcelona. Barcelona (Spain).

**2003:** Coordinator of the 1st Workshop of the Network of Cultural Landscape and Environmental History : *Transdisciplinary approach to a 8,000-yr history of land uses* . ICREA-FCR, Barcelona (Spain).

**2001:** Coordinador of the Workshop: Intercomparison among the Mediterranean Holocene lacustrine sequences: temporal and spatial extension of environmental short events.

3rd International Workshop of the Southern European Working Group of the European Lake Drilling Programme. European Science Fundation. Girona, Spain.

## 8. OTHER RESEARCH ACTIVITIES

**2002-2005:** Coordinator of the Network of Cultural Landscapes and Environmental History, constituted by 30 research teams. Catalan Government.

**Since 2001:** Researcher of the Seminar of Prehistoric Studies and Researches (SERP-UB), Dept. de Prehistory, Ancient History and Archaeology, University of Barcelona.

**Since 2005:** Member of the Directive Council of the Institute of Water, University of Barcelona.

## 9. SUPERVISION OF PH.D. THESIS

**2010:** Ph. D. Thesis of Anna Ejarque Montoliu (Catalan Institute of Classical Archaeology, University Rovira i Virgili)

*Genesis and microregional shaping of a cultural landscape in high mountain areas of the Pyrenees during the Holocene: pollen and multiproxy analyses in the valleys Madriu-Perafita-Claror (Andorra).*

**2010:** Ph. D. Thesis of Héctor Orengo (Catalan Institute of Classical Archaeology, University Rovira i Virgili)

*Archaeology of a high mountain Cultural Landscape. Human occupation of the Madriu-Perafita-Claror valleys, in Andorra.*

**2012:** Ph. D. Thesis: Andrés Currás Domínguez (University of Barcelona):

*Landscape changes and human activities during the last 3000 years in dry Mediterranean regions in Spain: pollen studies of the Somolinos karstic lake (Sierra de la Pela, Guadalajara) and Ivars playa-lake (Urgell, Lleida).*