

CURRICULUM VITAE – APRIL'19



Marc Oliva, PhD

INDEX

1.- PERSONAL DETAILS	3
2.- ACADEMIC DEGREES	3
3.- PROFESSIONAL STATUS	3
4.- RESEARCH INTERESTS	3
5.- RESEARCH EXPERIENCE	
5.1 RESEARCH GROUPS	4
5.2 RESEARCH COLLABORATIONS	4
5.3 AWARDS	4
5.4 LANGUAGE SKILLS	4
5.5 PROFESSIONAL ACTIVITY	5
5.6 GRANTS/FELLOWSHIPS	5
5.7 INTERNSHIPS	6
5.8 FIELD WORK EXPERIENCE	6
5.9 RESEARCH PROJECTS	7
5.10 RESEARCH CONTRACTS	8
5.11 ORGANIZATION OF R+D ACTIVITIES	9
5.12 REFEREE ACTIVITIES	9
5.13 MEMBER OF DISSERTATION COMMITTEES	9
5.14 MEMBER OF EDITORIAL BOARDS	10
5.15 MEMBER OF SCIENTIFIC ASSOCIATIONS	10
5.16 REPRESENTATION IN INTERNATIONAL ORGANIZATIONS	10
5.17 MEMBER OF THE SCIENTIFIC COMMITTEE IN CONFERENCES	10
5.18 ORGANIZING COMMITTEES IN CONFERENCES	11
5.19 RESEARCH STATISTICS	11
6.- PUBLICATIONS	
6.1 THESIS	12
6.2 ARTICLES IN INTERNATIONAL PEER-REVIEWED JOURNALS	12
6.3 ARTICLES IN NATIONAL JOURNALS	16
6.4 EDITION OF JOURNALS	17
6.5 EDITION OF BOOKS	17
6.6 CHAPTERS IN BOOKS	17
6.7 DISSEMINATION ARTICLES	22
6.8 SCIENTIFIC OUTREACH	23
6.9 PUBLICATIONS FROM CONFERENCES	24
7.- PARTICIPATION IN CONFERENCES	
7.1 ORAL COMMUNICATIONS IN CONFERENCES	35
7.2 INVITED LECTURES	37
7.3 POSTER PRESENTATIONS IN CONFERENCES	38
8.- TEACHING EXPERIENCE	
8.1 TEACHING INTERESTS	41
8.2 FORMAL EDUCATION	41
8.3 NON-FORMAL EDUCATION	43
8.4 TRAINING LECTURES	43
8.5 ORGANIZATION OF TRAINING ACTIVITIES	44
8.6 MENTORING OF ADVANCED STUDENTS	45
8.7 TEACHING ACCREDITATIONS	46
8.8 TEACHING PUBLICATIONS	46
9.- OTHERS	
9.1 WORKSHOPS AND COURSES RECEIVED	47
9.2 ATTENDANCE TO WORKSHOPS, COURSES AND FIELD TRIPS	47

1.- PERSONAL DETAILS

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Research identifiers

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Research Gate: http://www.researchgate.net/profile/Marc_Oliva

Personal Website: <http://www.marcoliva.com>

2.- ACADEMIC DEGREES

May 2009 - **PhD, Geography**, University of Barcelona

“Doctor Europaeus” Mention, Outstanding PhD award of the University of Barcelona 2008-2009

September 2006 - **MSc, Applied Climatology**, University of Barcelona

June 2006 - **MSc, Geography**, University of Barcelona

September 2004 - **Degree in Geography**, University of Barcelona

3.- PROFESSIONAL STATUS

Research scientist, Ramon y Cajal

Department of Geography, University of Barcelona

4.- ACADEMIC BACKGROUND

Research topics: Geography, Physical Geography, Environment, Global change, Mountain areas, Polar regions, Natural hazards, Earth Sciences, Climate variability.

Research scientist (38 yr, PhD since 2009) that has already coordinated 12 research projects focused on polar terrestrial ecosystems financed by public and private international agencies. After almost 8 years as postdoctoral researcher and research scientist at the Antarctic Environments and Climate Change research group of the Centro de Estudos Geográficos of the University of Lisbon (Portugal), Dr Marc Oliva started in May'17 a new professional challenge as Ramón y Cajal researcher at the Department of Geography of the UB, where he is expanding his areas of research fields and study topics. Recently, his proposal for creating and leading new emerging research group on Antarctic, Arctic and Alpine Environments (ANTALP) was approved and financially supported. His research interests include the study of present and past environments in Polar Regions and high mountains using a wide range of natural records (glacial, periglacial, lacustrine). He has carried out 8 field seasons in Antarctica and 3 in the Arctic, with over one year of field experience in Polar Regions. Apart from Sierra Nevada, where he focused his PhD, he has also conducted research in other mountain regions (Rocky Mountains, Alps, Pamir, Tien Shan, Pyrenees, Cantabrian Mountains, Central Range), which has provided him a wide comprehension of Earth surface processes in cold-climate environments and their interactions with human activities. He has published 80 SCI papers; remarkably, 68 have been published within the last five years (since 2014), most of them have in top journals (51, Q1) on geomorphology and paleoclimate topics: Nature Communications (IF: 13.1), Land Degradation and Development (9.8), Earth-Science Reviews (IF: 7.5), Science of the Total Environment (IF: 4.9), Quaternary Science Reviews (IF: 4.8), The Cryosphere (IF: 4.8), Nature Scientific Reports (IF: 4.3), Global and Planetary Change (IF: 3.9), Earth Surface Processes and Landforms (IF: 3.6), Geomorphology (IF: 3.0), etc. Also, he has published 76 chapters in books, 168 abstracts in conferences and coordinated 9 Special Issues in SCI journals and 2 books.

5.- RESEARCH EXPERIENCE

5.1 RESEARCH GROUPS

IP of the Research Group

Antarctic, Arctic and Alpine Environments (ANTALP), University of Barcelona, Catalonia
www.marcoliva.com

Member of other Research Groups:

Climate Change and Environmental Systems (ZEPHYRUS), University of Lisbon, Portugal
<http://zephyrus.ulisboa.pt/>

Environmental Management Centre, Mykolas Romeris University, Lithuania
<https://sites.google.com/site/emcromeris/home>

5.2 RESEARCH COLLABORATIONS

- Centre for Geographical Studies, Universidade de Lisboa (Portugal)
- Czech Polar Research Group, Masaryk University (Czech Republic)
- Centre for Northern Studies, Laval University (Canada)
- Department of Geography, University of Oviedo (Spain)
- Department of Geography, Complutense University of Madrid (Spain)
- Department of Physics, University of Alcalá (Spain)
- Institute of Earth Sciences Jaume Almera – CSIC

5.3 AWARDS

- Prémio Científico Universidade de Lisboa 2017. Universidade de Lisboa, Caixa Geral de Depósitos. 6.500 Euro.
- Best short course within the EGU Soil Science Division General Assembly 2014 “*Workshop on methods and techniques to study permafrost in a climate change scenario*”, April 2015.
- Program Where does your Goose take you? Contest based on CV and field work activities for 2014-2015. Association of Polar Early Career Scientists and Canada Goose®. May, 2014.
- Iberian IPA-PYRN Award for the *Outstanding Oral Presentation* in the III Iberian Conference on Permafrost, 21-23 June 2011, Piornedo (Galiza, Spain). International Permafrost Association (IPA).
- Scientific Outreach Award of the University of Granada 2010 for his participation in the book “*El sector central de las Béticas: una aproximación desde la geografía física*”.
- IPA-PYRN Award for the *Outstanding International Oral Presentation* in the Third European Conference on Permafrost, 13-17 June 2010, Longyearbyen (Svalbard, Norway). International Permafrost Association (IPA) - Permafrost Young Research Network (PYRN).
- Outstanding PhD Award, University of Barcelona (2008-2009).
- “Doctor Europaeus” Mention, University of Barcelona (2008-2009).

5.4 LANGUAGE SKILLS

Language	Speak	Read	Write
Catalan	Native	Native	Native
Spanish	Native	Native	Native
English	C	C	C
Italian	C	C	B
Portuguese	C	C	C

5.5 PROFESSIONAL ACTIVITY

15-5-2017 to 14-5-2022	Research scientist, Ramon y Cajal program (RYC-2015-17597). Department of Geography, University of Barcelona. Funded by the Ministry of Economy and Competitiveness, Spanish Government.
1-7-2014 to 14-5-2017	Research scientist. Centro de Estudos Geográficos. University of Lisbon. Funded by the Fundação para a Ciência e a Tecnologia, Portugal.
1-1-2013 to 30-6-2014	Postdoctoral researcher (AXA fellowship). Centro de Estudos Geográficos. University of Lisbon. Funded by AXA Research Fund.
31-12-2010 to 31-12-2012	Postdoctoral researcher (Beatriu de Pinós fellowship). Centro de Estudos Geográficos. University of Lisbon. Funded by the Agència de Gestió i Ajuts Universitaris i de Recerca, Catalan Government.
1-1-2010 to 30-12-2010	Postdoctoral researcher (FCT fellowship). Centro de Estudos Geográficos. University of Lisbon. Funded by the Fundação para a Ciência e a Tecnologia, Portugal.
1-1-2009 to 31-12-2009	Research assistant at the Landscape Service of the University of Barcelona.
1-1-2007 to 31-12-2008	PhD contract (FPU). Department for Physical and Regional Geography, University of Barcelona. Funded by the Ministry of Science and Innovation, Spanish Government.
1-4-2005 to 31-12-2006	PhD fellowship (FPU). Department for Physical and Regional Geography, University of Barcelona. Funded by the Ministry of Science and Innovation, Spanish Government.
1-1-2005 to 31-3-2005	PhD fellowship (FI). Department for Physical and Regional Geography. University of Barcelona. Funded by Agència Gestió i Ajuts Universitaris i Recerca, Catalan Government.
1-1-2004 to 30-6-2004	Collaboration fellowship with the Department for Physical and Regional Geography, University of Barcelona. Funded by the Ministry of Education, Spanish Government.
1-10-2002 to 30-6-2003	Seneca Fellowship at the University of Santiago de Compostela. Funded by the Ministry of Education, Spanish Government.

5.6 GRANTS/FELLOWSHIPS

- Grant for International mobility of professors and promotion of internationalization of the centres of the University of Barcelona - 2019. Universitat de Barcelona. Amount: 360 Euro.
- Grant to attend the “*European Geosciences Union (EGU), General Assembly 2014*”. Funded by the organization of the European Geosciences Union. Vienna (Austria), 27th April-2nd May, 2014. Amount: all expenses covered.
- Grant to attend the “*Thaw2014 Conference*”. Funded by the Climate and Cryosphere Project. Laval (Canada), 7-12th March, 2014. Amount: all expenses covered.
- Grant to attend PAGE21 workshop. Funded by the International Permafrost Association. Abisko (Sweden), 19-20th September, 2013. Amount: all expenses covered.
- Grant to attend the “*European Geosciences Union (EGU), General Assembly 2013*”. Funded by the organization of the European Geosciences Union. Vienna (Austria), 7-12th April, 2013. Amount: all expenses covered.
- Grant to attend the “*Tenth International Conference on Permafrost (TICOP)*”. Funded by the Government of the Yamal-Nenets Autonomous District (Russia). Salekhard, Siberia (Russia), 25-29th June, 2012. Amount: all expenses covered.
- Grant to attend the “*18th Congress of the International Union for Quaternary Research (INQUA)*”. Funded by the International Union for Quaternary Research. Bern (Switzerland), 21-7-2011 to 27-7-2011. Amount: 750 Euro.
- Grant to attend the “*XI International Symposium on Antarctic Earth Sciences*”. Funded by SCAR Group on Permafrost and Periglacial Environments. Edinburgh (Scotland), 10-7-2011 to 16-7-2011. Amount: 500 USD.
- Grant for Early Career Scientists to attend the “*XI International Symposium on Antarctic Earth Sciences*”. Funded by the *Steering Committee of the XI International Symposium on Antarctic Earth Sciences*. Edinburgh (Scotland), 10-7-2011 to 16-7-2011. Amount: 200 British pounds.
- Grant to attend the “*Association of American Geographers Annual Meeting 2011*”. Funded by the Fundação Calouste Gulbenkian (Portugal). Seattle (USA), 11-4-2011 to 16-4-2011. Amount: 1040 Euro.
- Grant to participate in the Argentinean Antarctic Campaign. Funded by the Fundação para a Ciência e a Tecnologia (Portugal). From 15-12-2010 to 23-2-2011. Amount: 2200 Euro.
- Contribution to the Catalan version of the PhD thesis. Funded by the Agència de Gestió i Ajuts Universitaris i de Recerca, Catalan Government. Amount: 500 Euro.
- Grant for young researchers to attend the “*X National Conference on Geomorphology*”. Funded by the Spanish Geomorphological Society. Cádiz (Spain), 14-9-2008 to 19-9-2008. Amount: all expenses covered.
- Grant to attend the “*9th International Conference on Permafrost*”. Funded by the Faculty of Geography and History, University of Barcelona. Fairbanks (Alaska, USA), 28-6-2008 to 2-7-2008. Amount: 700 Euro.
- Grant to attend the “*9th International Conference on Permafrost*”. Funded by the International Permafrost Association (IPA), U.S. Permafrost Association (USPA) and University of Alaska. Fairbanks (Alaska, USA), 28-6-2008 to 2-7-2008. Amount: all expenses covered.

5.7 INTERNSHIPS

- 2010-17** Centre for Geographical Studies, University of Lisbon – 2010-May 2017 (90 months)
2010 Department for Physical and Regional Geography, University of Barcelona (Catalonia) – 3 months
2008 Department of Geography, University of Ottawa (Canada) – 2 months
2007 Geographisches Institut, University of Bern (Switzerland) – 4 months
2006 Geographisches Institut, University of Bern (Switzerland) – 2 months
2004 Centro Austral Investigaciones Científicas (CADIC-CONICET), Ushuaia (Argentina) – 1 month

5.8 FIELD WORK EXPERIENCE

- 2019** Fildes Peninsula, King George Island (Antarctica), from 1-2-2019 to 12-2-2019.
Topics: cosmogenic sampling, geomorphological mapping, deglaciation reconstruction.
- 2018** Trollaskagi peninsula (Iceland), from 9-8-2018 to 18-8-2018.
Topics: cosmogenic sampling, geomorphological mapping, deglaciation reconstruction.
- 2018** Zackenberg valley (Greenland), from 17-7-2018 to 8-8-2018.
Topics: cosmogenic sampling, geomorphological mapping, deglaciation reconstruction.
- 2018** Fildes Peninsula, King George Island (Antarctica), from 23-2-2018 to 9-3-2018.
Hurd Peninsula, Livingston Island (Antarctica), from 31-1-2018 to 23-2-2018.
Topics: cosmogenic sampling, geomorphological mapping, deglaciation reconstruction.
- 2017** Pamir and Tien Shan (Kyrgyzstan), from 15-8-2017 to 6-9-2017.
Topics: cosmogenic sampling, geomorphological mapping, deglaciation reconstruction.
- 2017** Byers Peninsula, Livingston Island (Antarctica), from 28-1-2017 to 13-2-2017.
Hurd Peninsula, Livingston Island (Antarctica), from 13-2-2017 to 21-2-2017.
Topics: cosmogenic sampling, geomorphological mapping, deglaciation reconstruction.
- Since 2015** Central Pyrenees (Catalonia), annual campaigns.
Topics: MSc student research, geomorphological mapping, sedimentological sampling.
- 2015** Picos de Europa, Cantabrian Mountains (Spain), September 2015.
Topics: permafrost, geophysical surveying, palaeoenvironments.
- 2015** Byers Peninsula, Livingston Island (Antarctica), from 21-1-2015 to 31-1-2015.
Fildes Peninsula, King George Island (Antarctica), from 2-3-2015 to 21-2-2015.
Topics: HOLOANTAR- COSMOANTAR projects, geomorphological mapping, permafrost distribution.
- 2014** Elephant Point and Byers Peninsula, Livingston Island (Antarctica), from 16-1-2014 to 26-2-2014.
Topics: HOLOANTAR project, geomorphological mapping, permafrost distribution.
- 2012** Byers Peninsula, Livingston Island (Antarctica), from 6-11-2012 to 11-12-2012.
Topics: HOLOANTAR project, lake coring.
- 2012** King George Island (Antarctica), from 26-1-2012 to 26-2-2012.
Topics: HOLOANTAR'12 project, lake coring, soil sampling, active layer monitoring.
- 2011** Svalbard (Norway), from 25-8-2011 to 4-9-2011.
Topics: ANAPOLIS project, polygonal terrains, sedimentological studies.
- 2010-11** Deception Island (Antarctica), from 24-12-2010 to 23-1-2011.
Livingston Island (Antarctica), from 23-1-2011 to 3-2-2011.
Topics: PERMANTAR-2 project, permafrost monitoring, soil sampling, field reconnaissance.
- 2010** Svalbard (Norway), from 13-6-2010 to 27-6-2010.
Topics: ANAPOLIS project, polygonal terrains, field reconnaissance.
- 2008** Whitehorse (Yukon, Canada), from 8-7-2008 to 15-7-2008.
Topics: snow monitoring, permafrost, periglacial processes.
- 2006-08** Swiss Alps, annual campaigns.
Topics: FLUVALPS project, fluvial activity, alluvial fans, floods, climate variability.
- 2004** Tierra del Fuego (Argentina), from 3-3-2004 to 21-3-2004.
Topics: Quaternary geology, glaciations, periglacial processes.
- Since 2003** Sierra Nevada (Spain), annual campaigns.
Topics: PhD research, Holocene, palaeoenvironments, permafrost, solifluction landforms, lake sediments.

5.9 RESEARCH PROJECTS

COORDINATION (PI)

- 2019-2021 **NUNANTAR** - *Analysis of nunataks of the Antarctic Peninsula as multiproxy data sources on environmental change and climate dynamics*. Fundação para a Ciência e a Tecnologia, Portugal, 02/SAICT/2017 - 32002. PI: Dr **Marc Oliva**.
- 2018-2020 **PALEOGREEN** - *Glacial oscillations and climate variability in NE Greenland*. Ministerio de Economía y Competitividad, Spain, CTM2017-87976-P. PI: Dr **Marc Oliva**.
- 2017-2019 **ANTALP** - *Antarctic, Arctic, Alpine Environments*. Generalitat de Catalunya. Ajuts de Suport als Grups de Recerca, 2017 SGR 1102. PI: Dr **Marc Oliva**.
- 2018-2018 **GLACIGREEN** - *Glacial oscillations NE Greenland*. INTERACT Transnational Access. Funded by European Union's Horizon 2020 research programme, Grant No. 730938. PI: Dr **Marc Oliva**.
- 2016-2017 **CRONOBYSERS** - *Holocene deglaciation of ice-free areas in Livingston Island (South Shetland Islands, Antarctica)*. Project of the Portuguese Polar Program (PROPOLAR), Antarctic campaign 2016-2017. Fundação para a Ciência e a Tecnologia. PI: Dr **Marc Oliva**.
- 2013-2016 *Holocene permafrost environments and climate variability in the Maritime Antarctic*. AXA Research Fund. PI: Dr **Marc Oliva**.
- 2015-2016 **SLOWANTAR** - *Slow periglacial processes in James Ross Island, Antarctica*. Project of the Portuguese Polar Program, Antarctic campaign 2015-2016. Fundação para a Ciência e a Tecnologia. PI: Dr **Marc Oliva**.
- 2014-2015 **COSMOANTAR** - *Holocene deglaciation of ice-free areas in the South Shetland Islands*. Project of the Portuguese Polar Program, Antarctic campaign 2014-2015. Fundação para a Ciência e a Tecnologia. PI: Dr **Marc Oliva**.
- 2013-2014 *Holocene Environmental Change in the Maritime Antarctic. Interactions between permafrost and the lacustrine environment*. Project of the Portuguese Polar Program, Antarctic campaign 2013-2014. Fundação para a Ciência e a Tecnologia. PI: Dr **Marc Oliva**.
- 2012-2015 **HOLOANTAR** - *Holocene environmental change in the Maritime Antarctic. Interactions between permafrost and the lacustrine environment*. Fundação para a Ciência e a Tecnologia, Portugal, PTDC/CTE-GIX/119582/2010. PI: Dr **Marc Oliva**.
- 2012-2013 *Holocene Environmental Change in the Maritime Antarctic. Interactions between permafrost and the lacustrine environment*. Project of the Portuguese Polar Program, Antarctic campaign 2012-2013. Fundação para a Ciência e a Tecnologia. PI: Dr **Marc Oliva**.
- 2011-2012 *Holocene environments in Barton Peninsula (South Shetland Islands, Antarctica)*. Project of the Portuguese Polar Program, Antarctic campaign 2011-2012. Fundação para a Ciência e a Tecnologia. PI: Dr **Marc Oliva**.

PARTICIPATION

- 2019-2022 **FIRElinks** - *Fire in the Earth System: Science & Society*. EU Cost Action. Funded by European Union's Horizon 2020 research programme, Grant No. CA18135. PI: Artemi Cerdà, Stefan H. Doerr.
- 2017-2019 **CRONOANTAR** - *Glacial evolution in King George and Livingston Islands (Antarctica) since the Last Glacial Maximum based on cosmogenic nuclide dating and glacier surface reconstruction*. Ministerio de Economía y Competitividad, Spain, CTM2016-77878-P. PI: Dr Jesús Ruiz-Fernández.
- 2017-2019 **The Quebec-Catalonia polar research network**. Ministry of international relations and la francophonie, Québec. Bilateral cooperation – Québec-Catalogne. PI: Dr Dermot Antoniades.
- 2014-2015 *Balanço da energia superficial e seu controle no permafrost e na camada ativa da península Fildes, Antártica Marítima*. Fundação de Amparo à Pesquisa do Estado do Rio Grande do Sul (FAPERGS), "Programa Pesquisador Gaúcho – PqG n. 001/2013. PI: Dr Ulisses Bremer.
- 2014-2015 **3D ANTÁRTIDA**. *Monitoring of Antarctic Permafrost Environments*. PPL Crowdfunding. 21,000 Euro.
- 2013-2015 *Evolución del paisaje reciente de cumbres de Sierra Nevada. Interés científico de registros naturales y documentos escritos de época*. Ministerio de Economía y Competitividad, Spain, CSO2012-30681. PI: Dr Antonio Gómez-Ortiz.
- 2013-2015 **PERMANTAR-3** - *Permafrost and Climate Change in the Antarctic Peninsula*. Fundação para a Ciência e a Tecnologia, Portugal, PTDC/AAC-CLI/119463/2010. PI: Dr Gonçalo Vieira.
- 2011-2013 **FCT-CAPES** project - *Luso-Brazilian Programme for Research on Antarctic Permafrost and Terrestrial Ecosystem Dynamics*. Fundação para a Ciência e a Tecnologia (Portugal) and Fundação Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES, Brazil), Portugal and Brazil, **4.4.1.00**. PI: Dr Gonçalo Vieira (Universidade de Lisboa) and Dr Carlos Schaefer (Universidade de Viçosa).
- 2009-2013 *Landscape research and Mediterranean mountain palaeoenvironments consolidated research group*. Generalitat de Catalunya. Ajuts de Suport als Grups de Recerca, 2009 SGR 868. PI: Dr Antonio Gómez-Ortiz.

- 2011-2012 *Strategic Project of the Centre for Geographical Studies- UI 295*. Fundação para a Ciência e a Tecnologia, Portugal, PEst-OE/SADG/UI0295/2011. PI: Centre for Geographical Studies.
- 2010-2012 **ANAPOLIS** - *Analysis of polygonal terrains on Mars based on Earth analogues*. Fundação para a Ciência e a Tecnologia, Portugal, PTDC/CTE-SPA/099041. PI: Dr Pedro Pina.
- 2010-2012 *El interés científico de la documentación de época para el estudio del glaciario histórico (PEH) de Sierra Nevada*. Ministerio de Ciencia e Innovación (MCNN), Spain, CS02009-06961. PI: Dr Antonio Gómez-Ortiz.
- 2010-2012 **PERMANTAR-2** - *Permafrost and Climate Change in the Maritime Antarctic*. Fundação para a Ciência e a Tecnologia, Portugal, PTDC/AAC-CLI/098885/2008. PI: Dr Gonçalo Vieira.
- 2007-2010 *Degradación de hielo fósil y permafrost y cambio climático en Sierra Nevada*. Organismo Autónomo de Parques Nacionales (OAPN), Spain, 018/2007. PI: Dr Antonio Gómez-Ortiz.
- 2007-2009 **FLUVALPS** - *Cambios en los sistemas fluviales alpinos durante los últimos 3000 años y riesgos de avenidas asociados a la variabilidad climática y usos del suelo*. Ministerio de Educación, Cultura y Deporte (DUNV), Spain, CGL2006-01111. PI: Dr Lothar Schulte.
- 2005-2009 *Landscape research and Mediterranean mountain palaeoenvironments consolidated research group*. Generalitat de Catalunya. Ajuts de Suport als Grups de Recerca. PI: Dr Antonio Gómez-Ortiz.

5.10 RESEARCH CONTRACTS

- 2018-2019 *Antarctica in Iberia*. AXA Research Fund. PI: Dr **Marc Oliva**.
- 2017-2018 *Análisis de explotaciones agropecuarias con incidencia de carnívoros en cabaña ganadera*. Gobierno del Principado de Asturias. PI: Dr Jesús Ruiz-Fernández.

5.11 ORGANIZATION OF R+D ACTIVITIES

- Co-convenor of the session “The cryosphere and its interactions with meteorology and the climate system” within the European Meteorological Society. Budapest (Hungary), 5-9th September 2018.
- Convenor of the session “Past environments in permafrost regions” within the *5th European Conference on Permafrost* of the International Permafrost Association. Chamonix (France), 23th June - 1st July 2018.
- Co-convenor of the session “Reconstructing past environmental change in the Polar Regions” of the *POLAR2018*. Davos (Switzerland), 15-26th June 2018.
- Convenor of the session “Soils in cold-climate regions” within the “Soils Division System (SSS)” of the *European Geosciences Union General Assembly 2017*. Vienna (Austria), 24th April, 2017.
- Convenor of the session “Criosfera y Cambio Climático” of the *XI Congreso Internacional de Geomática y Ciencias de La Tierra - TOPCART 2016*. Toledo (Spain), 26-30th October, 2016.
- Convenor of the session “Past environments in mid-latitude mountain regions” of the *1st International Conference on Research for Sustainable Development in Mountain Regions*. Bragança (Portugal), 5-7th October, 2016.
- Convenor of the session “Soils in polar, boreal and mountain regions” within the “Soils Division System (SSS)” of the *European Geosciences Union General Assembly 2016*. Vienna (Austria), 17-22th April, 2016.
- Convenor of the session “Soils in polar, boreal and mountain regions” within the “Soils Division System (SSS)” of the *European Geosciences Union General Assembly 2015*. Vienna (Austria), 12-17th April, 2015.
- Co-convenor of the session “Soil as a Record of the Past: Landscape evolution by natural/cultural processes” within the Soils Division System of *European Geosciences Union General Assembly 2015*. Vienna (Austria), 12-17th April, 2015.
- Co-convenor of the session “Permafrost-affected soils of high latitudes in a changing world” of the conference on *The Earth Living Skin: Soil, Life and Climate Change*. Nova Yardinia (Italy), from 22 to 25th September, 2014.
- Convenor of the session “Soils in polar and boreal regions” within the “Soils Division System (SSS)” of the *European Geosciences Union General Assembly 2014*. Vienna (Austria), 27th April-2nd May, 2014.
- Convenor of the session “Limnological Processes in permafrost environments” within the *Fourth European Conference on Permafrost* of the International Permafrost Association. Évora (Portugal), 18-21st June, 2014.
- Convenor of the session “Soils in cold regions” within the “Soils Division System (SSS)” of the *European Geosciences Union General Assembly 2013*. Vienna (Austria), 7-12th April, 2013.
- Organization of the *Fluvalps Meeting: Changes in alpine fluvial systems during the last 3000 years and flood risks associated to climate variability and land use*. Faculty of Geography and History, University of Barcelona. Barcelona (Catalonia), January 2007.
- Organization of the seminar: *1st scientific meeting of the Landscape Research laboratory*. Faculty of Geography and History, University of Barcelona. Barcelona (Catalonia), June 2007.

5.12 REFEREE ACTIVITIES

- Reviewer of the Second Order Draft of the Special Report on the Ocean and Cryosphere in a Changing Climate of the Intergovernmental Panel on Climate Change 2019, autumn 2018.
- Reviewer of the First Order Draft of the Special Report on the Ocean and Cryosphere in a Changing Climate of the Intergovernmental Panel on Climate Change 2019, spring 2018.
- Reviewer for the international indexed journals: *Earth and Planetary Science, Global Change Biology, Earth and Planetary Science Letters, Quaternary Science Reviews, Science of the Total Environment, Permafrost and Periglacial Processes, The Holocene, Geomorphology, Catena, Solid Earth, Journal of Mountain Research, Soil Science Society of America, Journal of Soils and Sediments, SOIL, Sedimentary Geology, Geosciences, Computers and Geosciences, Land Degradation and Development, Boletín Asociación de Geógrafos Españoles, Cuaternario y Geomorfología, Cuadernos de Investigación Geográfica, Tourism Planning & Development, Bulletin of Geography. Physical Geography Series*.
- Reviewer for international conferences: *IV Congresso de Ciências Polares, IV, V and VI Iberian Conferences of the International Permafrost Association, European Geosciences Union General Assembly 2013-2017, VII Congresso Nacional de Geomorfologia 2015 (Portugal), 1st International Conference Sustainable Development Mountain Regions*.
- Evaluator for the Polish National calls for research projects, since March’17.
- Evaluator for the Spanish National calls for research projects (Agencia Nacional de Evaluación y Prospectiva, ANEP), since September’15.
- Evaluator for the Czech National calls for research projects and PhD fellowships, since July’15.
- Evaluator for the National Science and Engineering Research Council of Canada for research projects, since December’17.
- Evaluator for grant concession for the program *Nova geração de cientistas polares* of the *Caixa Geral* (Portugal), 2012.
- Evaluator for giving financial support to the organization of training schools within the European Geosciences Union during 2014, February 2014.

5.13 MEMBER OF DISSERTATION COMMITTEES

- MSc candidate: Sara Ramos, Universidade de Lisbon (Portugal): "*Spatial modelling of the Temperature at the Top of Permafrost in Cierva Point (Antarctic Peninsula)*", 9th November 2018.
- PhD candidate: Manuel Gómez Lende, University of Valladolid (Spain): "*Las cuevas heladas en Picos de Europa: clima, morfologías y dinámicas*", 13th July 2015, rapporteur.
- PhD candidate: Jesús Alcalá Reygosa, Complutense University of Madrid (Spain): "*La evolución volcánica, glaciar y periglacial del complejo volcánico Ampato (Sur de Perú)*", 12th November 2014.
- PhD candidate: Jesús Ruiz Fernández, University of Oviedo (Spain): "*Las formas de modelado glaciar, periglacial y fluvio-torrencial del macizo Occidental de los Picos de Europa (Cordillera Cantábrica)*", 4th January 2013.

5.14 MEMBER OF EDITORIAL BOARDS

- Journal Land Degradation & Development (IF: 7.5), since July'16.
- Journal Solid Earth (IF: 4.1), since November'15.
- Journal Mediterranean Geoscience Reviews, since February'19.
- Journal Visnyk Geology, Lviv University (Ukraine), since November'13.
- Journal Baltic environment, Mykolas Romeris University (Lithuania), since October'13.
- EGU-SSSD Newsletter of European Geosciences Union, from 2012 to 2015.
- PYRN Newsletter (Permafrost Young Researchers Network), from 2012 to 2014.

5.15 MEMBER OF SCIENTIFIC ASSOCIATIONS

IPA	International Permafrost Association
ANTPAS	Antarctic Permafrost, Periglacial Environments and Soils
APECS	Association of Polar Early Career Scientists
EGU	European Geosciences Union
MRI	Mountain Research Initiative
SEG	Sociedad Española de Geomorfología
SCG	Societat Catalana de Geografia
ACOM	Associació Catalana d'Observadors Meteorològics

5.16 REPRESENTATION IN INTERNATIONAL ORGANIZATIONS

- Co-chair of the Action Group Antarctic Permafrost, Periglacial Environments and Soils of the "Scientific Committee on Antarctic Research (SCAR)", since January 2018.
- Spanish President of the International Permafrost Association, since January 2018.
- Co-chair of the Subdivision "*Soil as a record of the past*" within the "*Soils Division System (SSS)*" of the European Geosciences Union, from 2015 to 2018.
- Member of the EU-POLARNET, consortium of expertise and infrastructure for polar research, since 2015.
- Member of the Action Group Geological Heritage and Geoconservation of the "Scientific Committee on Antarctic Research (SCAR)", 2015-2017.
- Member of the Executive Committee of the PYRN (Permafrost Young Researchers Network), 2012-2014.
- National Representative of the PYRN (Permafrost Young Researchers Network), 2011-2013.
- Member of the National Portuguese Committee of the International Permafrost Association, 2010-2017.

5.17 MEMBER OF THE SCIENTIFIC COMMITTEE IN CONFERENCES

- *Cambio climático y cultural en la Península Ibérica*. Oviedo (Spain), 18th December 2017.
- *VI Iberian Conference of the International Permafrost Association*. Mieres (Spain), 21-23th June 2017.
- *8th Portuguese Conference on Polar Sciences*. Lisboa (Portugal), 26-28th October 2016.
- *XI Congreso Internacional de Geomática y Ciencias de La Tierra 2016*. Toledo (Spain), 26-30th October 2015.
- *7th Portuguese Conference on Polar Sciences*. Évora (Portugal), 28-29th October 2015.
- *VII Congreso Nacional de Geomorfología 2015*. Lisbon (Portugal), 8-10th October 2015.
- *V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), 24-26th June 2015.
- *4th European Conference on Permafrost*. University Évora, University Lisbon. Évora (Portugal), 18-21th June 2014.
- *IV Iberian Conference of the International Permafrost Association*. Vall de Núria (Catalonia), 25-27th June 2013.

5.18 ORGANIZING COMMITTEES IN CONFERENCES

- *32 Jornadas de campo de Geografía Física - 1er Congreso de Geografía Física. Investigación, educación y desarrollo.* Valencia (Spain) – Wageningen (Netherlands), 30th June – 10th July.
- *VI Iberian Conference*, International Permafrost Association. Mieres (Spain), 21-23th June 2017.
- *4th European Conference on Permafrost*, International Permafrost Association. Évora (Portugal), 18-21st June 2014.
- *IV Iberian Conference of the International Permafrost Association.* Vall de Núria, 25-27th June 2013.

5.19 RESEARCH STATISTICS

Google Scholar

- Total citations: 1158, 2016 (136), 2017 (240), 2018 (336), 2019 (146).
- H index = 19; H index (since 2014) = 18.
- I10 index = 47, I10 index (since 2014) = 41.

Scopus

- Total citations: 757, 2016 (98), 2017 (188), 2018 (262), 2019 (124).
- H index = 16.
- Total publications: 79 (50 in Q1), since 2014: 69.

Research Gate

- Total citations: 984, 2016 (185), 2017 (221), 2018 (236), 2019 (77).
- H index = 16.
- RG Score: 36.43.

6.- PUBLICATIONS

6.1 THESIS

- 2009 **Oliva, M.** (2009). *Reconstrucció paleoambiental holocena de Sierra Nevada a partir de registres sedimentaris*. PhD Thesis. University of Barcelona.
- 2009 **Oliva, M.** (2009). *Holocene alpine environments in Sierra Nevada (Southern Spain)*. PhD Thesis. University of Barcelona.
- 2006 **Oliva, M.** (2006). *Reconstrucció paleoambiental holocena de Sierra Nevada a partir de registres sedimentaris. Resultats preliminars*. MSc Thesis. University of Barcelona.

6.2 ARTICLES IN INTERNATIONAL PEER-REVIEWED JOURNALS

submitted

Oliva, M.; Antoniades, D.; Serrano, E.; Giralt, S.; Liu, E.J.; Granados, I.; Pla-Rabes, S.; Toro, M.; Hong, S.G. & Vieira, G. (*submitted*). The deglaciation of Barton Peninsula (King George Island, South Shetland, Antarctica) based on geomorphic evidence and lacustrine records. *Polar Record*.

Ruiz-Fernández, J. & **Oliva, M.** (*submitted*). P Geomorphological processes in the Ala Archa National Park (Kyrgyzstan, Tian Shan Range). *Geografia Fisica e Dinamica Quaternaria*.

reviewed

Hrbáček, F.; Nývlt, D.; Láska, K.; Kňázková, M.; Engel, Z.; **Oliva, M.** & Mueller, C.W. (*reviewed*). The active layer research on James Ross Island, an overview of current results. *Czech Polar Reports*.

2019

Gómez-Ortiz, A.; **Oliva, M.**; Salvador-Franch, F.; Palacios, D.; Tanarro, L.M.; Sanjosé-Blasco, J.J. & Salvà-Catarineu, M. (2019). Monitoring permafrost and periglacial processes in Sierra Nevada (Spain) from 2001 to 2016. *Permafrost and Periglacial Processes*.

Oliva, M.; Palacios, D.; Fernández-Fernández, J.M.; Rodríguez-Rodríguez, L.; García-Ruiz, J.M.; Andrés, N.; Carrasco, R.M.; Pedraza, J.; Pérez-Alberti, A.; Valcárcel, M. & Hughes, P. (2019). Late Quaternary glacial phases in the Iberian Peninsula. *Earth-Science Reviews*, 192: 564-600.

Ruiz-Fernández, J.; **Oliva, M.**; Nývlt, D.; Cannone, N.; García-Hernández, C.; Guglielmin, M.; Hrbáček, F.; Roman, M.; Fernández, S. & López-Martínez, J. (2019). Paraglacial response since the Last Glacial Maximum in the Antarctic Peninsula region. *Earth-Science Reviews*, 192: 379-402.

Oliva, M.; Mercier, D.; Ruiz-Fernández, J. & McColl, S. (2019). Paraglacial dynamics in recently deglaciated environments. *Land Development & Degradation*, doi:10.1002/ldr.3283.

Biskaborn, B.K.; Smith, S.L.; Noetzli, J.; Vieira, G.; Streletskiy, D.; Schoeneich, P.; Romanovsky, V.; Wu, Q.; Christiansen, H.; Lanckman, J.P.; Abramov, A.; Allard, M.; Boike, J.; Delaloye, R.; Derevyanko, I.; Diekmann, B.; Drozdov, D.; Etzelmüller, B.; Grosse, G.; Guglielmin, M.; Ingeman-Nielsen, T.; Isaksen, K.; Ishikawa, M.; Johannson, M.; Johannsson, H.; Joo, A.; Kholodov, A.; Konstantinov, P.; Kröger, T.; Lambiel, C.; Lewkovicz, A.; Luo, D.; Malkova, G.; Matthes, H.; Meiklejohn, I.; Moskalenko, N.; Kaverin, D.; **Oliva, M.**; Paetzold, R.; Phillips, M.; Ramos, M.; Sannel, B.; Sergueev, D.; Seybold, C.; Skryabin, P.; Sletten, R.; Yoshikawa, K.; Zheleznyak, M. & Lantuit, H. (2019). Permafrost is warming at a global scale. *Nature Communications*, 10: 264.

Tanski, G.; Bergstedt, H.; Bevington, A.; Bonnaventure, P.; Bouchard, F.; Coch, C.; Dumais, S.; Evgrafova, A.; Frauenfeld, O.W.; Frederick, J.; Fritz, M.; Frolov, D.; Harder, S.; Hartmeyer, I.; Heslop, J.; Högström, E.; Johannson, M.; Kraev, G.; Kuznetsova, E.; Lenz, J.; Lupachev, A.; Magnin, F.; Martens, J.; Maslakov, A.; Morgenstern, A.; Nieuwendam, A.; **Oliva, M.**; Radosavljevic, B.; Ramage, J.; Schneider, A.; Stanilovskaya, J.; Strauss, J.; Trochim, E.; Vecellio, D.; Weber, S. & Lantuit, H. (2019). The Permafrost Young Researchers Network (PYRN) is getting older – its development since IPY, state and vision. *Polar Record*, doi: 10.1017/S0032247418000645.

Palacios, D.; Gómez-Ortiz, A.; Alcalá-Reygosa, J.; Andrés, N.; **Oliva, M.**; Tanarro, L.M.; Salvador-Franch, F.; Schimmelpfennig, I.; Léanni, L. & ASTER Team (2019). The challenging application of cosmogenic dating methods in residual glacial landforms: the case of Sierra Nevada (Spain). *Geomorphology*, 325: 103-118.

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Antoniades, D.; Giralt, S.; Geyer, Álvarez-Valero, A.M.; Pla-Rabes, S.; Granados, I.; Liu, E.J.; Toro, M.; Smellie, J. & **Oliva, M.** (2018). The timing and widespread effects of the largest Holocene volcanic eruption in Antarctica. *Nature Scientific Reports*, 8, 17279.

Serrano, E.; **Oliva, M.**; González-García, M.; López Moreno, J.I.; González-Trueba, J.J.; Martín-Moreno, R.; Martín-Díaz, J.; Gómez-Lende, M.; Nofre, J. & Palma, P. (2018). Post-Little Ice Age paraglacial processes and landforms in the high mountains of the Iberian Peninsula. *Land Degradation & Development*, doi: 10.1002/ldr.3171.

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Oliva, M.; Ruiz-Fernández, J. & Nývlt, D. (2018). Past environments in mid-altitude mountains. *Quaternary International*, 470: 1-3.

Hrbáček, F.; Vieira, G.; **Oliva, M.**; Balks, M.; Guglielmin, M.; de Pablo, M.A.; Molina, A.; Ramos, M.; Goyanes, G.; Meiklejohn, I.; Abramov, A.; Demidov, N.; Fedorov-Davydov, D.; Lupachev, A.; Rivkina, E.; Láska, K.; Kňázková, M.; Nývlt, D.; Raffi, R.; Strelin, J.; Sone, T.; Fukui, K.; Dolgikh, A.; Zazovskaya, E.; Mergelov, N.; Osokin, N. & Miamin, V. (2018). Active layer monitoring in Antarctica (CALM-S): results from 2006-2015 and new perspectives. *Polar Geography*, doi: 10.1080/1088937X.2017.1420105.

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Martín-Díaz, J.; Palma, P.; Golijanin, J.; Nofre, J.; **Oliva, M.** & Čengić, N. (2018). The urbanisation on the slopes of Sarajevo and the rise of geomorphological hazards during the post-war period. *Cities*, 72: 60-69.

Fernandes, M.; Palma, P.; Lopes, L.; Ruiz-Fernández, J.; Pereira, P. & **Oliva, M.** (2018). Spatial distribution and morphometry of permafrost-related landforms in the Central Pyrenees and associated paleoclimatic implications. *Quaternary International*, 470 (A), 96-108.

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Navas, A.; **Oliva, M.**; Ruiz-Fernández, J.; Gaspar, L.; Quijano, L. & Lizaga, I. (2017). Radionuclides and soil properties as indicators of glacier retreat in a recently deglaciated permafrost environment of the Maritime Antarctica. *Science of the Total Environment*, 609: 192-204.

López-Sáez, J.A.; Vargas, G.; Ruiz-Fernández, J.; Blarquez, O.; Alba-Sánchez, F.; **Oliva, M.**; Pérez-Díaz, S.; Robles-López, S. & Abel-Schaad, D. (2017). Paleofire dynamics in central Spain during the late Holocene: The role of climatic and anthropogenic forcing. *Land Degradation and Development*, 29: 2045-2059.

García-Hernández, C.; Ruiz-Fernández, J.; Sánchez-Posada, C.; Pereira, S.; **Oliva, M.** & Vieira, G. (2017). Reforestation and land use change as drivers for a decrease of avalanche damage in mid-latitude mountains (Asturian Massif, NW Spain). *Global and Planetary Change*, 153: 35-50.

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Oliva, M.; Hrbáček, F.; Ruiz-Fernández, J.; De Pablo, M.A.; Vieira, G.; Ramos, M. & Antoniades, D. (2017). Active layer dynamics in three topographically distinct lake catchments in Byers Peninsula (Livingston Island, Antarctica). *Catena*, 149 (2): 548-559.

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Oliva, M.; Pereira, P.; Ruiz-Fernández, J.; Nieuwendam, A. (2017). Recent advances in the study of active layer thermal regime and seasonal frost dynamics in cold climate environments. *Catena*, 149 (2): 155-158.

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Palacios, D.; Gómez-Ortiz, A.; Andrés, N., Salvador, F. & **Oliva, M.** (2016). Timing and new geomorphologic evidence of the Last Deglaciation stages in Sierra Nevada (southern Spain). *Quaternary Science Reviews*, 150: 110-129.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S; Toro, M.; Liu, E.J. & Sanjurjo, J. (2016). La deglaciación de las áreas libres de hielo de las islas Shetland del Sur (Antártida). Ejemplos de Byers (Livingston) y Barton (King George). *Cuaternalario y Geomorfología*, 30 (1-2), 105-118.

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Ruiz-Fernández, J.; Nieuwendam, A.; **Oliva, M.**; Lopes, V.; Cruces, A.; Janeiro, A.; Freitas, C. & López-Sáez, J.A. (2016). Cryogenic processes and fire activity in a high Atlantic mountain area in NW Iberia (Picos de Europa) during the Mid-Late Holocene. *Science of the Total Environment*, 573: 1159-1170.

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- Oliva, M.**; Gómez-Ortiz, A.; Palacios, D.; Salvador-Franch, F. & Salvà-Catarineu, M. (2013). Evolución ambiental del paisaje de cumbres de Sierra Nevada desde la última deglaciación. Resumen y síntesis. *XIV Reunión Nacional de Cuaternario, Asociación Española para el Estudio del Cuaternario*, La Cartuja (Sevilla), 4-10-2013.
- Oliva, M.**; Antoniades, D.; Giralt, S.; Agrela, J.; Granados, I.; Pla-Rabes, S.; Toro, M. & Vieira, G.; (2013). Deglaciación holocena de la península Barton (King George, Antártida Marítima). *XIV Reunión Nacional de Cuaternario, Asociación Española para el Estudio del Cuaternario*, La Cartuja (Sevilla), 4-10-2013.
- Oliva, M.**; Neves, M.; Vieira, G.; Pina, P.; Cardoso, M.; Jorge, M. & Freitas, C. (2013). Late Holocene environmental and climatic conditions in Adventalen valley (Svalbard) based on sedimentological studies of ice-wedge polygon terrain.

8th International Conference on Geomorphology. International Association of Geomorphologists. Paris (France), 30-8-2013.

Oliva, M.; Antoniadis, D.; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S.; Vieira, G.; Mora, C.; Trindade, A.; Agrela, J.; Batista, V.; Correia, A.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Galán, L.; Ruiz-Fernández, J. & Serrano, E. (2013). Holocene environmental change in Byers Península. First field work campaign of the HOLOANTAR project. *IV Iberian Conference of the International Permafrost Association*. Vall de Núria (Catalonia), 25-6-2013.

Antoniades, D.; **Oliva, M.;** Giralt, S.; Agrela, J.; Granados, I.; Pla-Rabes, S.; Toro, M. & Vieira, G. (2013). La deglaciación holocena de la Península de Barton (Isla Rey Jorge, Antártida marítima). *IV Iberian Conference of the International Permafrost Association*. Vall de Núria (Catalonia), 25-6-2013.

Oliva, M.; Gómez-Ortiz, A.; Vidal, J.; Salvador-Franch, F. & Salvà-Catarineu, M. (2013). El martillo de Schmidt como un instrumento de datación relativa. Aplicación preliminar a los arcos morrénicos del Corral del Veleta y Hoya del Mulhacén (Sierra Nevada). *IV Iberian Conference of the International Permafrost Association*. Vall de Núria (Catalonia), 25-6-2013.

Oliva, M. & Gómez-Ortiz, A. (2012). Multi-proxy study of climate variability over the last millennium in Sierra Nevada based on lake sediments and historical documents. *8th International Congress of the Spanish Association of Climatology*. Salamanca (Spain), 25-9-2012.

Oliva, M.; Neves, M.; Vieira, G.; Pina, P.; Jorge, M. & Freitas, C. (2012). Sedimentological characteristics of ice-wedge polygon terrain in Adventalen valley (Svalbard). Environmental and climatic implications for the Late Holocene. *XII Reunión Nacional de Geomorfología*. Santander (Spain), 20-9-2012.

Oliva, M.; Gómez-Ortiz, A.; Salvador-Franch, F. & Salvà-Catarineu, M. (2011). Late Holocene environmental evolution in the Mulhacén cirque (Sierra Nevada) inferred from lake sediments and documentary sources. *III Iberian Conference of the International Permafrost Association*. Piornedo (Galiza), 22-6-2011.

Oliva, M. & Gómez-Ortiz, A. (2011). Late Holocene palaeoenvironmental history from sedimentary records and historical sources in a high mountain environment from the Mediterranean region (Sierra Nevada, Southern Spain). *Association of American Geographers (AAG) Annual Meeting 2011*. Seattle (Washington, USA), 15-4-2011.

Oliva, M. & Gómez-Ortiz, A. (2010). Late Holocene reconstruction of landscape changes in Sierra Nevada from sedimentary records and documentary sources. *Global Change and the World's Mountains*. Perth (Scotland), 28-9-2010.

Oliva, M. (2010). Long-term solifluction response to increasingly arid conditions in Sierra Nevada, Southern Spain. *Third European Conference on Permafrost*. Longyearbyen. Svalbard (Norway), 13-6-2010.

Oliva, M. & Gómez-Ortiz, A. (2010). Efectividad de los procesos periglaciares en Sierra Nevada durante el Holoceno. *VI Seminario Latino-Americano de Geografía Física, II Seminario Ibero-Americano de Geografía Física*. Coimbra (Portugal), 27-5-2010.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2009). Holocene slope instability processes inferred from solifluction lobes and lake sediments in Sierra Nevada (Southern Spain). *27th Meeting of the International Association of Sedimentologists (IAS)*. Alghero (Italy), 22-9-2009.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2009). Inestabilidad de laderas durante el Holoceno en el piso periglacial actual de Sierra Nevada. *II Iberian Conference of the International Permafrost Association*. Sigüenza (Spain), 22-6-2009.

Oliva, M.; Gómez-Ortiz, A. & Schulte, L. (2009). Monitorización dinámica y control térmico en geofomas solifluidales inactivas del piso crionival de Sierra Nevada. *II Iberian Conference of the International Permafrost Association*. Sigüenza (Spain), 22-6-2009.

Oliva, M. & Moreno, I. (2008). Sierra Nevada, nexo entre dos patrones de teleconexión: la NAO y la WEMO. *6th International Congress of the Spanish Association of Climatology, Cambio climático regional y sus impactos*. Tarragona (Catalonia), 9-10-2008.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2008). Actividad solifluidal en Sierra Nevada durante el Holoceno tardío. *10th National Conference on Geomorphology*. Cádiz (Spain), 16-9-2008.

Oliva, M.; Gómez-Ortiz, A. & Schulte, L. (2008). Procesos solifluidales actuales en Sierra Nevada. *10th National Conference on Geomorphology*. Cádiz (Spain), 16-9-2008.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2008). Solifluction lobes in Sierra Nevada (Southern Spain): morphometry, process monitoring and palaeoenvironmental changes. *Ninth Conference on Permafrost (NICOP)*. Fairbanks, Alaska (United States), 1-7-2008.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2008). Solifluction phases in Sierra Nevada (Southern Spain) during the Late Holocene. *European Geosciences Union, General Assembly 2008*. Vienna (Austria), 17-4-2008.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2007). Lóbulos de gelisoliflución y cambios ambientales holocenos en Sierra Nevada. *I Iberian Conference of the International Permafrost Association*. Guarda (Portugal), 25-6-2007.

7.2 INVITED LECTURES

Oliva, M. (2018). Sierra Nevada: los glaciares más meridionales de Europa. *As pegadas do glaciario*, Geoparque As Montañas do Courel. Courel (Spain), 19-10-2018.

- Oliva, M.** (2017). Permafrost degradation and connectivity. Connectivity in Boreal and Polar Environments – COST Action ES1306. Vilnius (Lithuania), 11-10-2017.
- Oliva, M.** (2017). *Deglaciation of the ice-free areas in the Maritime Antarctic. Antarctic campaign 2016-2017.* Spanish research station Juan Carlos I, Livingston (Antarctica), 20-2-2017.
- Oliva, M.** (2016). Unveiling some climate myths. *Noite Europeia dos Investigadores.* Pavilhão do Conhecimento, Lisbon (Portugal), 29-10-2016.
- Oliva, M.** (2016). Late Quaternary environments in the highest Iberian mountain ranges since the Last Glaciation. *Students in polar and alpine research Conference 2016.* Masaryk University, Brno (Czech Republic), 25-4-2016.
- Oliva, M.** (2015). Permafrost en el Ártico. Implicaciones ambientales y socio-económicas. *Frío extremo. De Iberia a los Polos y Marte. Ciencia e investigación en torno al permafrost.* Universidad de Valladolid, Valladolid (Spain), 20-5-2015.
- Oliva, M.** (2015). Geomorfología y suelo helado en Sierra Nevada. *Frío extremo. De Iberia a los Polos y Marte. Ciencia e investigación en torno al permafrost.* Universidad de Valladolid, Valladolid (Spain), 20-5-2015.
- Oliva, M.** (2015). Deglaciação das áreas livres de gelo na Antártida Marítima. O exemplo de Byers. *Homenagem ao Prof. Luís Alberto Mendes-Victor.* Programa Polar Português, Lisbon (Portugal), 8-5-2015.
- Oliva, M.** (2015). Overview on palaeoenvironments in polar and mountain Iberian regions. *Students in Polar Research Conference 2015.* Masaryk University, Brno (Czech Republic), 20-4-2015.
- Oliva, M.** (2014). Holocene environments in Byers and Fildes peninsulas (Maritime Antarctica). *Workshop Antarctic training 2014-2015, Portuguese Polar Program.* Lisbon (Portugal), 15-11-2014.
- Oliva, M.** (2014). Field work logistics in Antarctica. Problems and opportunities. Workshop “Successful fieldwork - an APECS and PYRN panel discussion”, *European Geosciences Union, General Assembly 2014.* Vienna (Austria), 30-4-2014.
- Oliva, M.** (2013). Holocene environmental change in the Maritime Antarctic. Interactions between permafrost and lacustrine environment. *Workshop Antarctic training 2013-14, Portuguese Polar Program.* Lisbon (Portugal), 15-11-2013.
- Oliva, M.** (2012). Evolução dos ambientes com permafrost das ilhas Shetland do Sul no Holocénico Superior - Antártica Marítima. *Workshop Portuguese Polar Program.* Instituto Hidrográfico Portugal. Lisbon (Portugal), 11-6-2012.
- Oliva, M.** (2011). Antarctic campaign HOLOANTAR 2011-2012. Holocene environmental change in the Maritime Antarctic. Interactions between permafrost and the lacustrine environment. *1st Portuguese Antarctic meeting for field work preparation. Portuguese Polar Program.* Lisbon (Portugal), 17-11-2011.
- Oliva, M.;** Gómez-Ortiz, A.; Salvador-Franch, F. & Salvà-Catarineu, M. (2011). Contribución al conocimiento de fases frías en la Hoya del Mulhacén (Sierra Nevada) durante el Holoceno Superior. *Seminario sobre glaciario ibérico. XIII Reunión Nacional de Cuaternario, Asociación Española para el Estudio del Cuaternario.* Andorra la Vella (Andorra), 5-7-2011.
- Oliva, M.** (2010). Climate variability and periglacial processes during the Mid-Late Holocene in Sierra Nevada (Southern Iberian Peninsula). *Encontros de Meteorologia. Centro de Geofísica da Universidade de Lisboa, Instituto Dom Luiz.* Lisbon (Portugal), 29-3-2010.
- Oliva, M.** (2010). Holocene landscape evolution in Sierra Nevada (Southern Iberian Peninsula). *Seminar of the Antarctic Environments and Climate Change Research Group.* Lisbon (Portugal), 19-5-2010.
- Oliva, M.** (2007). The Pyrenees glaciers: from the LIA to the present. *Palaeo-Geocology seminar* (Geographisches Institut, University of Bern). Bern (Switzerland), 12-12-2007.
- Oliva, M.** (2007). Holocene alpine environments in Sierra Nevada (Andalusia, Spain). *Palaeo-Geocology seminar* (Geographisches Institut, University of Bern). Bern (Switzerland), 7-12-2007.
- Oliva, M.** (2007). Reconstrucció paleoambiental holocena de Sierra Nevada. Avenços preliminars. *1st Scientific meeting of the Landscape Service of the University of Barcelona.* Barcelona (Catalonia), 6-6-2007.
- Oliva, M.** (2006). Holocene palaeoenvironments in Sierra Nevada. *Palaeo-Geocology seminar* (Geographisches Institut, University of Bern). Bern (Switzerland), 7-11-2006.

7.3 POSTER PRESENTATIONS IN CONFERENCES (1ST AUTHOR AND SPEAKER)

- Oliva, M.;** Žebre, M.; Guglielmin, M.; Çiner, A.; Vieira, G.; Bodin, X.; Andrés, N.; Colucci, R.R.; García-Hernández, C.; Hughes, P.; Mora, C.; Nofre, J.; Palacios, D.; Pérez-Alberti, A.; Ribolini, A.; Ruiz-Fernández, J.; Sarikaya, M.A.; Serrano, E.; Urdea, P.; Valcárcel, M.; Woodward, J. & Yildirim, C. (2018). The existence of permafrost conditions in the Mediterranean basin since the Last Glaciation. *XV Reunión de la Sociedad Española de Geomorfología.* Palma de Mallorca (Spain), 11-14th September 2018.
- Oliva, M.;** Antoniadou, D.; Giralt, S.; Granados, I.; Palacios, D.; Pla-Rabes, S; Ruiz-Fernández, J.; Sanjurjo, J.; Toro, M.; Vieira, G. (2018). Reconstructing the deglaciation of ice-free environments in the Antarctic Peninsula: recent findings and new perspectives. *POLAR2018.* Davos (Switzerland), 23-6-2018.
- Oliva, M.;** Vieira, G.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M. & Schimmelpfennig, I. (2016). CRONBYERS - Holocene deglaciation of ice-free areas in Livingston Island (South Shetland Islands, Antarctica). Meeting of the Portuguese Polar Program (PROPOLAR), Antarctic campaign 2016-2017. Fundação para a Ciência e a Tecnologia (FCT). Lisbon (Portugal), 28-10-2016.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S.; Toro, I. & Liu, E. (2016). El retroceso glaciar en las islas Shetland del Sur (Antártida) durante el Holoceno. *XIV Reunión de la Sociedad Española de Geomorfología*. Málaga (Spain), 24-6-2016.

Oliva, M.; Gómez-Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, M.; Ramos, M.; Palacios, D.; Tanarro, L. Pereira, P.; & Ruiz-Fernández, J. (2016). Absence of permafrost conditions at the top of Veleta peak (Sierra Nevada, Spain). XI International Conference on Permafrost. Potsdam (Germany), 21-4-2016.

Oliva, M.; Ruiz-Fernández, J.; Quijano, L.; Palazón, L. & Navas, A. (2016). Soil processes in recently deglaciated environments in Maritime Antarctica: a study case from Elephant Point (Livingston Island, South Shetland Islands). European Geosciences Union, General Assembly 2016. Vienna (Austria), 22-4-2016.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S.; Toro, M. & Liu, E.J. (2015). Holocene environmental changes in Byers Peninsula (South Shetland Islands, Antarctica) inferred from lake sediments. *VII Conferência Portuguesa das Ciências Polares*. Évora (Portugal), 28-10-2015.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S.; Toro, M. & Liu, E.J. (2015). Ongoing analysis of lake sediments from Byers Peninsula (Livingston Island, South Shetland Islands). *PAGES Antarctica2k*. Venice (Italy), 3-4th September 2015.

Oliva, M.; Ruiz-Fernández, J. & Vieira, G. (2015). Active layer dynamics in three sites with contrasted topography in the Byers Peninsula (Livingston Island, Antarctica). *European Geosciences Union, General Assembly 2015*. Vienna (Austria), 13-5-2015.

Oliva, M. & Ruiz-Fernández (2014). Present-day paraglacial processes in Elephant Point (Livingston Island, Antarctica). *IV Conferência Portuguesa das Ciências Polares*. Porto (Portugal), 31-10-2014.

Oliva, M. & Ruiz-Fernández, J. (2014). Paraglacial processes in a recently deglaciated Antarctic environment (Elephant Point, Livingston Island). *Ecology of Glacier Forelands*. Torino (Italy), 18-9-2014.

Oliva, M. & Ruiz-Fernández, J. (2014). Geomorphological processes in the ice-free area of Elephant Point (Livingston Island, South Shetland). *2014 SCAR Open Science Conference*. Auckland (New Zealand), 25-8-2014.

Oliva, M.; Gómez-Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, M.; Palacios, D.; Tanarro, L. & Schulte, L. (2014). About the existence of permafrost conditions in the high lands of Sierra Nevada. In: Vieira, G., Pina, P., Mora, C., Correia, A. (Eds). Book of abstracts of the 4th European Conference on Permafrost, 20-6-2014.

Oliva, M.; Gómez-Ortiz, A.; Salvador-Franch, F. & Salvà-Catarineu, M. (2014). The role of snow cover in ground thermal conditions in three sites with contrasted topography in Sierra Nevada (Spain). *European Geosciences Union, General Assembly 2014*. Vienna (Austria), 30-4-2014.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S. & Vieira, G. (2014). Holocene deglaciation of Byers Peninsula (Livingston Island, Maritime Antarctica) inferred from lake records. *European Geosciences Union, General Assembly 2014*. Vienna (Austria), 28-4-2014.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Toro, M. & Pla-Rabes, S. (2014). Holocene deglaciation of Byers Peninsula (Livingston Island, Maritime Antarctica) inferred from lake records. *THAW 2014 - Thermokarst Aquatic ecosystems Workshop: Freshwater ecosystems in changing permafrost landscapes*. Québec city (Canada), 13-3-2014.

Oliva, M.; Antoniades, D.; Giralt, S.; Agrela, J.; Granados, I.; Pla-Rabes, S.; Toro, M. & Vieira, G.; (2013). The Holocene deglaciation of Barton Peninsula (King George, Antarctica) based on lacustrine records. *IV Conferência Portuguesa das Ciências Polares*. Faro (Portugal), 31-10-2013.

Oliva, M.; Gómez-Ortiz, A.; Salvador-Franch, F. & Salvà-Catarineu, M. & Vidal, J. (2013). The use of the Schmidt hammer as a complementary tool for cosmogenic dating in Sierra Nevada (Southern Spain). *Proceedings of the 8th International Conference on Geomorphology*. International Association of Geomorphologists. Paris (France), 30-8-2013.

Oliva, M.; Vieira, G.; Mora, C.; Trindade, A.; Agrela, J.; Batista, V.; Correia, A.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Toro, M.; Antoniades, D.; Galán, L.; Giralt, S.; Granados, I.; Pla-Rabes, S. & Serrano, E. (2013). The HOLOANTAR project: Holocene environmental change in the Maritime Antarctic. Interactions between permafrost and the lacustrine environment. *European Geosciences Union, General Assembly 2013*. Vienna (Austria), 12-4-2013.

Antoniades, D.; **Oliva, M.**; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S.; Vieira, G.; Mora, C.; Trindade, A.; Agrela, J.; Batista, V.; Correia, A.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Galán, L.; Ruiz-Fernández, J. & Serrano, E. (2013). Evolución ambiental holocena de la Península Byers. Proyecto HOLOANTAR, primera campaña de campo. *IV Iberian Conference of the International Permafrost Association*. Vall de Núria (Catalonia), 26-6-2013.

Gómez-Ortiz, A.; **Oliva, M.**; Palacios, D.; Salvador-Franch, F. & Salvà-Catarineu, M. (2013). Ambientes morfogénicos fríos posteriores a la última glaciación en los paisajes de cumbres de Sierra Nevada. Estado del arte. *IV Iberian Conference of the International Permafrost Association*. Vall de Núria (Catalonia), 26-6-2013.

Oliva, M.; Neves, M.; Vieira, G.; Pina, P.; Cardoso, M. & Freitas, C. (2013). Late Holocene development of ice-wedge polygon terrain in Adventalen valley (Svalbard) based on sedimentological evidences. *European Geosciences Union, General Assembly 2013*. Vienna (Austria), 12-4-2013.

Oliva, M.; Neves, M.; Vieira, G.; Pina, P.; Cardoso, M.; Jorge, M. & Freitas, C. (2012). Late Holocene development of ice-wedge polygon terrain in Adventalen valley (Svalbard). *IV Conferência Portuguesa das Ciências Polares*. Lisbon (Portugal), 19-10-2012.

- Oliva, M.;** Vieira, G.; Mora, C.; Trindade, A.; Agrela, J.; Batista, V.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Toro, M.; Antoniades, D.; Galán, L.; Giralt, S.; Granados, I. & Pla-Rabes, S. (2012). Understanding present and past interactions between permafrost and climate in the Maritime Antarctica. The HOLOANTAR project. *IV Conferência Portuguesa das Ciências Polares*. Lisbon (Portugal), 19-10-2012.
- Oliva, M.;** Gómez-Ortiz, A.; Salvador-Franch, F. & Salvà-Catarineu, M. (2012). Balance and conclusions of monitoring present-day solifluction processes in Sierra Nevada during the period 2005-2011. *XII Reunión Nacional de Geomorfología*. Santander (Spain), 20-9-2012.
- Oliva, M.;** Vieira, G.; Mora, C.; Trindade, A.; Agrela, J.; Batista, V.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Toro, M.; Antoniades, D.; Galán, L.; Giralt, S.; Granados, I. & Pla-Rabes, S. (2012). The HOLOANTAR project: Holocene environmental change in the Maritime Antarctic. Holocene climate variability in a maritime permafrost environment (Byers Peninsula, Livingston Island) inferred from lacustrine records. *Scientific Committee on Antarctic Research Conference*. Portland (USA), 16-7-2012.
- Oliva, M.;** Neves, M.; Vieira, G.; Pina, P.; Cardoso, M.; Jorge, M. & Freitas, C. (2012). Sedimentological characteristics of ice-wedge polygon terrain in Adventalen valley (Svalbard). *Tenth International Conference on Permafrost (TICOP)*. Salekhard, Siberia (Russia), 26-6-2012.
- Oliva, M.;** Vieira, G.; Mora, C.; Trindade, A.; Jorge, M.; Batista, V.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Toro, M.; Antoniades, D.; Galán, L.; Giralt, S.; Granados, I. & Pla-Rabes, S. (2012). The HOLOANTAR project: Holocene environmental change in the Maritime Antarctic. Interactions between permafrost and the lacustrine environment. *Tenth International Conference on Permafrost (TICOP)*. Salekhard, Siberia (Russia), 27-6-2012.
- Oliva, M.;** Vieira, G.; Mora, C.; Trindade, A.; Agrela, J.; Batista, V.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Toro, M.; Antoniades, D.; Galán, L.; Giralt, S.; Granados, I. & Pla-Rabes, S. (2012). Projecto HOLOANTAR 2012-2015. Evolução dos ambientes com permafrost das ilhas Shetland do Sul no Holocénico Superior - Antárctica Marítima. *Workshop do Portuguese Polar Program*. Instituto Hidrográfico de Portugal. Lisbon (Portugal), 11-6-2012.
- Oliva, M. & Gómez-Ortiz, A.** (2011). Palaeoecological evolution in Sierra Nevada (Southern Spain) over the last millennium inferred from solifluction landforms, lake sediments and documentary sources. *18th Congress of the International Union for Quaternary Research (INQUA)*. Bern (Switzerland), 23-7-2011.
- Oliva, M. & Vieira, G.;** Mora, C.; Trindade, A. & Jorge, M. (2011). Preliminary results of the Holocene palaeoenvironmental evolution in the Serra da Estrela (Portugal). *X Proceedings of the 19th Congress of the International Union for Quaternary Research (INQUA)*. Bern (Switzerland), 24-7-2011.
- Oliva, M.;** Trindade, A.; Vieira, G. & Ramos, M. (2011). Spatial patterns of incoming summer short-wave radiation in Deception and Livingston Islands (Antarctica). Controls from atmospheric circulation and consequences for permafrost distribution. *XI International Symposium on Antarctic Earth Sciences*. Edinburgh (Scotland), 11-7-2011.
- Oliva, M. & Gómez-Ortiz, A.** (2010). Holocene solifluction processes in a Mediterranean mountain environment (Sierra Nevada, Spain). *Third European Conference on Permafrost*. Longyearbyen. Svalbard (Norway), 13-6-2010.
- Oliva, M.** (2010). Climate variability and periglacial processes during the Mid-Late Holocene in Sierra Nevada (Southern Iberian Peninsula). *European Geosciences Union, General Assembly 2010*. Vienna (Austria), 4-5-2010.
- Oliva, M. & Pereira, P.** (2010). Winter precipitation patterns in a mountain area of Sierra Nevada (Southern Iberian Peninsula) and their relation with large scale circulation. *European Geosciences Union, General Assembly 2010*. Vienna (Austria), 5-5-2010.
- Oliva, M.;** Gómez-Ortiz, A. & Schulte, L. (2009). Environmental changes in Sierra Nevada during the last 6 ky BP inferred from solifluction lobes and lake sediments. *European Geosciences Union, General Assembly 2009*. Vienna (Austria), 21-4-2009.
- Oliva, M.;** Schulte, L. & Gómez-Ortiz, A. (2009). Solifluction activity in the present periglacial belt of Sierra Nevada during the last 8 ky BP. *European Geosciences Union, General Assembly 2009*. Vienna (Austria), 22-4-2009.
- Oliva, M.** (2008). Lóbulos de soliflucción y fluctuaciones paleoclimáticas durante el Holoceno en Sierra Nevada. *6th International Congress of the Spanish Association of Climatology, Cambio climático regional y sus impactos*. Tarragona (Catalonia). 10-10-2008.
- Oliva, M. & Schulte, L.** (2008). Solifluction phases during the Late Holocene in Sierra Nevada (Southern Spain). *Ninth International Conference on Permafrost (NICOP)*. Fairbanks, Alaska (United States), 1-7-2008.
- Oliva, M.;** Gómez-Ortiz, A. & Schulte, L. (2008). Spatial and morphometrical approach to solifluction lobes in Sierra Nevada. *European Geosciences Union, General Assembly 2008*. Vienna (Austria), 17-4-2008.
- Oliva, M.;** Schulte, L. & Gómez-Ortiz, A. (2007). Solifluction lobes and Holocene environmental changes in Sierra Nevada (Spain). *Iberian Conference of the International Permafrost Association*. Guarda (Portugal), 25-6-2007.
- Oliva, M.** (2007). Reconstruicó paleoambiental holocena de Sierra Nevada (Andalusia). *Jornades Doctorials 2007*. Collbató (Catalonia), 20-6-2007.
- Oliva, M.;** López Bustins, J.A.; Barriendos, M.; Muedra, C. & Martín Vide, J. (2006). Reconstrucción histórica de la Oscilación del Mediterráneo occidental (WeMO) e inundaciones en el levante peninsular (1500-2000). *5th International Congress of the Spanish Association of Climatology, Clima, Sociedad y Medio Ambiente*. Zaragoza (Spain), 20-9-2006.

8.- TEACHING EXPERIENCE

8.1 TEACHING INTERESTS

Physical Geography, geosciences, geomorphology, permafrost, Quaternary environments, climate variability, sedimentary records, environmental management assessment, field work.

8.2 FORMAL EDUCATION

Course 2018/2019 - Department of Geography, Saint Petersburg University

- **Lecturer**, *Quaternary Environments*.

Course at the Master in Polar and Marine Sciences (POMOR), 8 hours.

- Provide basic level of Quaternary studies and methods used in environmental and climate reconstructions.

Course 2018/2019 - Department of Geography, University of Barcelona

- **Lecturer**, *Environmental Impact Assessment*.

4th Course. 1st semester. Optional. Degree of Geography. 6 ECTS credits. Theory and Practicum, 3 hours/week.

- Introduce applications of environmental management.
- Teach different techniques to evaluate environmental impact.

- **Mentoring Degree thesis**, *Geography*.

4th Course. Annual. Mandatory. Degree of Geography. 2 ECTS credits.

Course 2017/2018 - Department of Geography, University of Barcelona

- **Lecturer**, *Environmental Impact Assessment*.

4th Course. 1st semester. Optional. Degree of Geography. 6 ECTS credits. Theory and Practicum, 3 hours/week.

- Introduce applications of environmental management.
- Teach different techniques to evaluate environmental impact.

- **Mentoring Degree thesis**, *Geography*.

4th Course. Annual. Mandatory. Degree of Geography. 2 ECTS credits.

Course 2016/2017 - Instituto de Geografia e Ordenamento do Território - University of Lisbon

- **Lecturer**, *Field work in Physical Geography*.

2nd Course. 2nd semester. Optional. Degree of Geography. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Introduce general applications of physical geography concepts in field work research.
- Field work visit to show the concepts introduced in class lectures.

- **Lecturer**, *Physical Geography and Quaternary environments*.

MSc Course. 2nd semester. Optional. MSc in Physical Geography and Territorial Planning. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Provide advanced level of Quaternary studies and methods used in environmental and climate reconstructions.
- Lead a field work visit to show the concepts introduced in class lectures.

Course 2015/2016- Instituto de Geografia e Ordenamento do Território - University of Lisbon

- **Lecturer**, *Field work in Physical Geography*.

2nd Course. 2nd semester. Optional. Degree of Geography. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Introduce general applications of physical geography concepts in field work research.
- Field work visit to show the concepts introduced in class lectures.

- **Lecturer**, *Geomorphology*.

1st Course. 2nd semester. Mandatory. Degree of Geography. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Introduce general applications of geomorphological concepts.
- Lead a field work visit to show the concepts introduced in class lectures.

- **Lecturer**, *Physical Geography and Quaternary environments*.

MSc Course. 2nd semester. Optional. MSc in Physical Geography and Territorial Planning. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Provide advanced level of Quaternary studies and methods used in environmental and climate reconstructions.
- Lead a field work visit to show the concepts introduced in class lectures.

Course 2014/2015- Instituto de Geografia e Ordenamento do Território - University of Lisbon

- **Lecturer**, *Geomorphology*.

1st Course. 2nd semester. Mandatory. Degree of Geography. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Introduce general applications of geomorphological concepts.
- Lead a field work visit to show the concepts introduced in class lectures.

- **Lecturer**, *Physical Geography and Quaternary environments*.

MSc Course 2nd semester. Optional. MSc in Physical Geography and Territorial Planning. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Provide advanced level of Quaternary studies and methods used in environmental and climate reconstructions.
- Lead a field work visit to show the concepts introduced in class lectures.

Course 2013/2014- Instituto de Geografia e Ordenamento do Território - University of Lisbon

- **Lecturer**, *Quaternary environments*.

2nd Course. 2nd semester. Optional. Degree of Geography. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Provide a basic understanding of the concepts of Quaternary, Pleistocene and Holocene and the capacity of using the terminology and techniques commonly used in environmental and climate reconstructions.
- Lead a field work visit to Sierra Nevada (Spain) to show the concepts introduced in class lectures.

Course 2012/2013- Instituto de Geografia e Ordenamento do Território - University of Lisbon

- **Lecturer**, *Quaternary environments*.

2nd Course. 2nd semester. Optional. Degree of Geography. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Provide a basic understanding of the concepts of Quaternary, Pleistocene and Holocene and the capacity of using the terminology and techniques commonly used in environmental and climate reconstructions.
- Lead a field work visit to Picos de Europa (Spain) to show the concepts introduced in class lectures.

Course 2011/2012- Instituto de Geografia e Ordenamento do Território - University of Lisbon

- **Lecturer**, *Quaternary environments*.

2nd Course. 2nd semester. Optional. Degree of Geography. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Provide a basic understanding of the concepts of Quaternary, Pleistocene and Holocene and the capacity of using the terminology and techniques commonly used in environmental and climate reconstructions.
- Lead a field work visit to Serra da Estrela (Portugal) to show the concepts introduced in class lectures.

Course 2010/2011- Instituto de Geografia e Ordenamento do Território - University of Lisbon

- **Lecturer**, *Physical Geography of Mountain Environments*.

Erasmus Seminar, 2nd semester. Optional. Degree of Geography. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Introduce the concept of mountain providing a wide comprehension of mountain ecosystems.
- Introduce palaeoenvironmental studies in mountain environments.
- Lead a field work visit to Serra da Estrela (Portugal) to show the concepts introduced in class lectures.

Course 2008/2009 - Department of Geography, University of Barcelona

- **Teaching Assistant**, Geomorphology, Environmental Protected Areas.

2nd Course. Annual. Optional. Degree of Geography. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Coordination of practical activities within subjects related to Physical Geography and laboratory practicum.
- Organization of field activities (Alps) and assistance on the evaluation process.

Course 2007/2008 - Department of Geography, University of Barcelona

- **Teaching Assistant**, Geomorphology, Environmental Protected Areas.

2nd Course. Annual. Optional. Degree of Geography. 6 ECTS credits. Theory and Practicum, 4 hours/week.

- Coordination of practical activities within subjects related to Physical Geography and laboratory practicum.
- Organization of field activities (Pyrenees) and assistance on the evaluation process.

8.3 NON-FORMAL EDUCATION

- **Invited lecturer**, *Geografía de las áreas polares*
Summerschool of the University of Oviedo. Practical credits, 3 hours, August, 2015.
- **Invited lecturer**, *El Ártico y la Antártida: dos realidades geográficas contrastadas*
Summerschool of the University of Oviedo. Practical credits, 3 hours, September, 2014.
- **Laboratory instructor**, *Laboratory practicum*
Climate Change and Environmental Systems Group, University of Lisbon, July to October, 2013.
 - Introduce the students to the techniques commonly used in sedimentological and palaeoenvironmental studies.
- **Invited lecturer**, *Geografía de las áreas polares*
Summerschool of the University of Oviedo. Practical credits, 4 hours, September, 2015.
- **Lecturer**, *Territorial planning*. Courses 2004-2005, 2008-2009 and 2009-2010.
Institute of Public Security of Catalonia, Catalan Government. Theory and Practicum, 120 hours/year.
 - Introduction to geographical concepts and general comprehension of the Catalan territory.
 - Interpretation of maps and cartographic products and preparation of the textbook.

8.4 TRAINING LECTURES

- Oliva, M.** (2018). El repte de fer ciència a l'Àrtic. Escola Collserola. Sant Cugat del Vallès, 11-12-2018.
- Oliva, M.** (2018). L'aventura de fer ciència a l'Antàrtida. Institut Maria Espinalt. Barcelona, 28-11-2018.
- Oliva, M.** (2018). L'aventura de fer ciència a l'Antàrtida. Institut Martí Dot. Sant Feliu de Llobregat, 12-11-2018.
- Oliva, M.** (2018). L'aventura de fer ciència a l'Antàrtida. Institut Castellbisbal. Castellbisbal, 10-10-2018.
- Oliva, M.** (2018). L'aventura de fer ciència a l'Antàrtida. Institut Maria Espinalt. Barcelona, Casal La Llacuna, 4-10-2018.
- Oliva, M.** (2018). Deglaciation of the ice-free areas in the Maritime Antarctica. Lecture at Zackenberg Research Station. Greenland, 30-7-2018.
- Oliva, M.** (2018). L'aventura de fer ciència a l'Antàrtida. Biblioteca Jaume Fuster. Barcelona (Catalonia), 10-5-2018.
- Oliva, M.** (2018). La geomorfologia a Catalunya: perspectives de futur. Societat Catalana de Geografia, Institut d'Estudis Catalans. Barcelona (Catalonia), 29-5-2012.
- Oliva, M.** (2017). La aventura de hacer ciencia en la Antártida. PhD program in Geography, Complutense University of Madrid. Madrid (Spain), 27-11-2017.
- Oliva, M.** (2017). Permafrost de montaña - estado térmico, geomorfología y riesgos asociados. Workshop "Glaciares, nieve y permafrost de montaña: la criósfera como indicadora de cambios en el clima". Aínsa (Spain), 7-9-2017.
- Oliva, M.** (2016). A aventura de fazer ciência na Antártida. International Polar Week 2016, Escola IPTrans. Loures (Portugal), 3-5-2016.
- Oliva, M.** (2016). Palaeolimnological studies in cold-climate environments. MSc in Environmental Geochemistry. Lisbon (Portugal), 4-4-2016.
- Oliva, M.** (2016). A aventura de fazer ciência nos polos. Instituto Superior Técnico, University of Lisbon. Lisbon (Portugal), 15-2-2016.
- Oliva, M.** (2015). Ciência na Antártida: desafios e oportunidades. Summerschool for students on Physical Geography. Instituto de Geografia e Ordenamento do Território, University of Lisbon. Lisbon (Portugal), 16-9-2014.
- Oliva, M.** (2015). Landscape dynamics in paraglacial environments. An example from Antarctica (Elephant Point, Livingston Island). Workshop on *The future of permafrost in a climate changing world*, European Geosciences Union, General Assembly 2015. Vienna (Austria), 14-4-2015.
- Oliva, M.** & Ruiz-Fernández, J. (2015). The deglaciation of the Byers Peninsula (Livingston Island, Antarctica) based on lake sediment records. Lecture at the Chinese Research Station Great Wall. King George Island (Antarctica), 9-2-2015.
- Oliva, M.** (2014). Decifrar o clima passado na Antártida. Summerschool for students on Physical Geography. Instituto de Geografia e Ordenamento do Território, University of Lisbon. Lisbon (Portugal), 7-7-2014.
- Oliva, M.** (2014). Palaeolimnological studies in Antarctica. Degree in Physical Geography, Field work in Physical Geography. Lisbon (Portugal), 21-5-2014.
- Oliva, M.** (2014). Palaeoenvironmental studies in permafrost environments. Workshop on *Methods and techniques to study permafrost in a climate change scenario*, European Geosciences Union, General Assembly 2014. Vienna (Austria), 28-4-2014.
- Oliva, M.** (2014). A investigação portuguesa sobre as alterações climáticas e o permafrost nas regiões polares e de montanha. International Polar Week 2014, Escola Profissional Gustave Eiffel Amadora. Amadora (Portugal), 20-3-2014.

Oliva, M. (2013). Palaeoenvironmental methods in terrestrial ecosystems. Examples from Sierra Nevada, Picos de Europa and Antarctica. MsC in Geography, Department for Physical and Regional Geography, University of Barcelona. Barcelona (Catalonia), 11-12-2013 and 19-12-2013.

Oliva, M. (2013). De l'Àrtic a l'Antàrtida: dues realitats geogràfiques contrastades. Degree in Geography. Department for Physical and Regional Geography, University of Barcelona. Barcelona (Catalonia), 26-11-2013.

Oliva, M. (2013). Lost in the ice. Workshop "Pop Day- Popularizing your Research", AXA Research Fund. Paris (France), 1-7-2013.

Oliva, M. (2013). La aventura de hacer ciencia en la Antártida. Degree in Geography, Department of Geography of the University of Oviedo. Oviedo (Spain), 14-3-2013.

Oliva, M. (2013). L'aventura de fer ciència a l'Antàrtida. Degree in Geography, Department for Physical and Regional Geography, University of Barcelona. Barcelona (Catalonia), 4-3-2013.

Oliva, M. (2013). L'Antàrtida, entre la realitat i la ciència. Altair association, Workshop about Antarctica. Barcelona (Catalonia), 22-1-2013.

Oliva, M. (2013). A aventura de fazer ciência na Antártida. MSc in Architecture, Projecto Relâmpago_2013, Instituto Superior Técnico, University of Lisbon. Lisbon (Portugal), 13-2-2013.

Oliva, M. (2013). A few comments about Antarctica. Workshop about Antarctica, Association of young researchers of Lithuania. Vilnius (Lithuania), 9-1-2013.

Oliva, M. (2012). L'Antàrtida i l'Àrtic, dues realitats climàtiques contrastades. Workshop "L'Antàrtida i els geògrafs", Societat Catalana de Geografia, Institut d'Estudis Catalans. Barcelona (Catalonia), 29-5-2012.

Oliva, M. (2012). L'estudi dels processos geomorfològics freds a les muntanyes ibèriques i la seva traslació a l'Antàrtida. Workshop "L'Antàrtida i els geògrafs", Societat Catalana de Geografia, Institut d'Estudis Catalans. Barcelona (Catalonia), 22-5-2012.

Oliva, M. (2011). Decifrar o clima do passado: desafios e perspectivas. Colóquios do Instituto de Geografia e Ordenamento do Território, Colóquios do Instituto de Geografia e Ordenamento do Território. Lisbon (Portugal), 5-4-2011.

Oliva, M. (2011). Riscaldamento globale e variabilità naturale del clima. Giornata della Scienza 2010 - SOS Clima: Diagnosi a confronto, Istituto Ghandò Narni. Narni (Italy), 12-3-2010.

Oliva, M. (2010). Ambientes glaciares y periglaciares en Yukon (Canadá) y Patagonia (Argentina). International Polar Week 2010, Centro de Estudios Geográficos, University of Lisbon. Lisbon (Portugal), 17-3-2010.

8.5 ORGANIZATION OF TRAINING ACTIVITIES (WORKSHOPS, FIELDTRIPS)

Institution: University of Lisbon

Event: international fieldtrip for students of "Quaternary environments" and "Field work in Physical Geography"

Title: Quaternary environments in Galiza southern coast, Xistral and Picos de Europa massifs (Spain)

Place and date: Galicia-Asturias (Spain), 17-20 April April 2017

Institution: European Geosciences Union

Event: scientific organization of a workshop during the EGU General Assembly 2017

Title: Workshop on "The future of permafrost in a climate changing world"

Place and date: Vienna (Austria), 24-4-2017

Institution: University of Lisbon

Event: international fieldtrip for students of "Quaternary environments" and "Field work in Physical Geography"

Title: Quaternary environments in Galiza southern coast, Xistral and Picos de Europa massifs (Spain)

Place and date: Galicia-Asturias (Spain), 31 March-3 April 2016

Institution: European Geosciences Union

Event: scientific organization of a workshop during the EGU General Assembly 2015

Title: Workshop on "The future of permafrost in a climate changing world"

Place and date: Vienna (Austria), 14-4-2015

Institution: Permafrost Young Researchers Network, APECS (Association of Polar Early Career Scientists), PAGE21 (Changing Permafrost in the Arctic and its Global Effects in the 21st Century) and ADAPT (Arctic Development and Adaptation to Permafrost in Transition)

Event: organization of a workshop before for young researchers before the 4th European Conference on Permafrost

Title: Permafrost Young Researchers Workshop

Place and date: Évora (Portugal), 17th June 2014

Institution: University of Lisbon and University of Oviedo

Event: international fieldtrip for students of “Quaternary environments”

Title: Quaternary environments in Sierra Nevada (Spain)

Place and date: Granada-Sierra Nevada (Spain), May 2014

Institution: European Geosciences Union

Event: scientific organization of a workshop during the EGU General Assembly 2014

Title: Workshop on “Methods and techniques to study permafrost in a climate change scenario”

Place and date: Vienna (Austria), 28-4-2014

Institution: International Permafrost Association, Iberian section

Event: Field trip within the IV Iberian Conference of the International Permafrost Association

Title: Rock glaciers in the Puigmal massif (Eastern Pyrenees)

Place and date: Vall de Núria (Catalonia), 27-6-2013

Institution: University of Lisbon and University of Oviedo

Event: international fieldtrip for students of Geography co-organized by the University of Lisbon and University of Oviedo under the supervision of Dr Marc Oliva and Dr Jesús Ruiz-Fernández

Title: Quaternary environments in the Picos de Europa (Asturias, Spain)

Place and date: Asturias (Spain), from 26th to 28th April, 2013

Institution: Societat Catalana de Geografia, Institut d’Estudis Catalans

Event: Organization of a seminar

Title: L’Antàrtida i els geògrafs

Place and date: Barcelona, 22nd and 29th May, 2012

Institution: University of Lisbon

Event: international fieldtrip for students of “Quaternary environments”

Title: Quaternary environments in Serra da Estrela (Portugal)

Place and date: Serra da Estrela (Spain), May 2012

8.6 MENTORING OF STUDENTS

MSc Student: Marcelo Fernandes

MSc Supervisor: **Marc Oliva**

Institution: Instituto de Geografia e Ordenamento do Território (IGOT), University of Lisbon

Degree: MSc in Geography (17/20), 2016

Title: Chronology of deglaciation and post-glacial environmental evolution in the upper Garonne valley (Central Pyrenees)

Funding program: PhD fellowship funded by Bolsas de Doutoramento, Fundação para a Ciência e Tecnologia (FCT), Portugal

PhD Student: Laura Malermo

PhD Supervisor: **Marc Oliva**

Institution: Faculty of Geography and History, University of Barcelona

Degree: PhD in Geography (ongoing)

Title: Distribución espacio-temporal y Caracterización morfológica de los campos de Penitentes en Andes

Funding program: PhD fellowship funded by Becas de Doctorado en el Extranjero, CONICYT, Chile

PhD Student: Fernando Berenguer

PhD Supervisor: Fernando Berenguer, **Marc Oliva**

Institution: Faculty of Geography and History, University of Barcelona

Degree: PhD in Geography (ongoing)

Title: Monitorización de procesos geomorfológicos criogénicos mediante técnicas geomáticas en los Pirineos centrales

PhD Student: Judith Hebrard

Bachelor Supervisor: **Marc Oliva**

Institution: Faculty of Geography and History, University of Barcelona

Degree: Degree in Geography (ongoing)

Title: Análisis del sistema bicing en Barcelona diez años después

MSc Student: Marcelo Fernandes

MSc Supervisor: Marc Oliva

Institution: Instituto de Geografia e Ordenamento do Território (IGOT), University of Lisbon

Degree: MSc in Geography (17/20), 2016

Title: Geomorphological evolution in the upper Garonne basin (Central Pyrenees) since the Last Glaciation

MSc Student: Carolina Luz

MSc Supervisor: João Canário, Marc Oliva

Institution: Centro de Química Estrutural, University of Lisbon, Lisbon (Portugal)

Degree: MSc in Chemistry (17/20), 2016

Title: Use of chemical elements as tracers of climate change and long-range transport in Antarctic lakes

MSc Student: Luis Lopes

MSc Supervisor: Marc Oliva

Institution: Instituto de Geografia e Ordenamento do Território (IGOT), University of Lisbon

Degree: MSc in Geography, Erasmus Program, 2015

Title: The deglaciation of the Vall de Boí valley (Central Pyrenees, Catalonia)

8.7 TEACHING ACCREDITATIONS

- **Catedràtic**, Agència per a la Qualitat del Sistema Universitari de Catalunya, June 2018.
- **Professor Agregat**, Agència per a la Qualitat del Sistema Universitari de Catalunya, September 2014.
- **Profesor Contratado Doctor**, Agencia Nacional de Evaluación de la Calidad y Acreditación, February 2010.
- **Profesor Ayudante Doctor**, Agencia Nacional de Evaluación de la Calidad y Acreditación, February 2010.
- **Professor Lector**, Agència per a la Qualitat del Sistema Universitari de Catalunya, December 2009.
- Certificate of Pedagogical Aptitude (CAP) (2004).

8.8 TEACHING PUBLICATIONS

- Textbook “Coneixement del Territori”. Institute of Public Security of Catalonia, Catalonia. Internal publication.
- Update of secondary school books – Geography. Barcelona, from 1-2-2005 to 31-3-2006. Editorial Vicens Vives.

9.- OTHERS

9.1 WORKSHOPS AND COURSES RECEIVED

- Workshop on “Diseño de mapas con ArcGIS, ESRI España, University of Barcelona, 2-7-2018 and 3-7-2018.
- Workshop on permafrost for young researchers co-organized by Permafrost Young Researchers Network, APECS (Association Polar Early Career Scientists), PAGE21 (Changing Permafrost in the Arctic and Global Effects in the 21st Century) and ADAPT (Arctic Development and Adaptation to Permafrost in Transition), Évora (Portugal), 17-6-2014.
- Workshop “*THAW 2014*”, International conference of freshwater ecosystems in permafrost landscapes. University of Laval, from 12-3-2014 to 15-3-2014, Québec city (Québec, Canada).
- Workshop “Pop Day- Popularizing your Research” of the AXA Research Fund, Paris (France), from 1-7-2013 to 2-7-2013, AXA Research Fund.
- Workshop of the Permafrost Young Researchers Network, Salekhard, Siberia (Russia), 24-6-2012, PYRN-IPA.
- Workshop “*Moodle para I&D*”, Lisbon (Portugal), 18-4-2012 to 23-4-2012. University of Lisboa.
- *Polar and Sedimentary Processes and Archives Workshop*, Loughborough (United Kingdom), from 18-11-2010 to 20-11-2010. University of Loughborough.
- *Seminar of the Antarctic Environments and Climate Change research group*, Lisbon (Portugal), March to June 2010. University of Lisbon.
- *Understanding the role of permafrost in a rapidly warming climate (Fairbanks, Alaska, USA)*, from 25-6-2008 to 27-8-2008. University of Fairbanks.
- *Workshop for young professors at the University of Barcelona (Catalonia)*, 16-1-2008 and 17-1-2008. Institute of Educational Sciences of the University of Barcelona.
- *Paleo-Geoecology and Landscape Development Seminar* of the University of Bern (Switzerland), from 15-9-2007 to 22-12-2007. Geographisches Institut, University of Bern.
- *Jornades Doctorials 2007*, Collbató, from 18-6-2007 to 21-6-2007. Generalitat de Catalunya.
- *Paleo-Geoecology and Landscape Development Seminar* of the University of Bern (Switzerland), from 15-10-2006 to 15-12-2006. Geographisches Institut, University of Bern.
- *Geomorfología de campo en la depresión de Teruel y sus márgenes montañosos*. Albarracín (Spain), from 4-7-2005 to 8-7-2005. Course of Physical Geography, summer school of the University of Teruel.
- *II Curso de Campo de Geomorfología y Geología del Cuaternario de Tierra del Fuego*. Ushuaia, Tierra del Fuego (Argentina), from 6-3-2004 to 22-3-2004. Laboratorio de Geología del Cuaternario. Centro Austral de Investigaciones Científicas (CADIC-CONICET).
- *El Cuaternario en la Tierra del Fuego*, Santiago de Compostela (Spain), May 2003. University of Santiago.
- *La Antártida*, Santiago de Compostela (Spain), May 2003. University of Santiago de Compostela.

9.2 ATTENDANCE TO WORKSHOPS, COURSES AND FIELD TRIPS

- *Antarctic training field work campaign 2014-2015* of the Portuguese Polar Program, 21-11-2014, Lisbon (Portugal).
- *Antarctic training field work campaign 2013-2014* of the Portuguese Polar Program, 15-11-2013, Lisbon (Portugal).
- *Modern Biogeography: from phylogeography and landscape genetics to land-use planning and management*, Lisbon (Portugal), 11-4-2012. Climate and Environmental Changes Research Group (CliMA).
- *Preparatory meeting for the Portuguese Antarctic campaign*, Lisbon (Portugal), 17-11-2011. Portuguese Polar Program.
- *Course "Rifle handling and polar bear protection"*, Longyearbyen (Svalbard), 25-8-2011. University Centre in Svalbard.
- *Symposium about glacial processes and chronology in the Pyrenees*, Andorra la Vella (Andorra), 7-7-2011. Asociación Española para el Estudio del Cuaternario.
- *Course "Rifle handling and polar bear protection"*, Longyearbyen (Svalbard), 18-6-2010. University Centre in Svalbard.
- *Thermal regime and landforms in the Yukon (Canada)*, from 4-7-2008 to 15-7-2008. University of Ottawa (Canada).
- *Geomorphological trip: Central Alaska from Fairbanks to Denali National Park (Alaska, USA)*, from 29-6-2008 to 3-7-2008. International Permafrost Association. University of Fairbanks (Alaska, USA).
- *VI Geoscience Swiss Meeting*, Geneva (Switzerland), 16-11-2007 and 17-11-2007. Swiss Academy of Sciences.
- *Forum IPCC. Fourth Assessment Report. The IPCC Report 2007 and its relevance for Switzerland*, Bern (Switzerland), 5-9-2007. Swiss Academy of Sciences.
- *4th International Limnogeology Congress*, Barcelona (Catalonia), from 11-7-2007 to 14-7-2007. International Association of Limnogeology (IAL).
- *Jornades de debat sobre el canvi climàtic*, Riudecanyes (Catalonia), 7-5-2007 and 8-5-2007. Ajuntament de Riudecanyes and University Rovira i Virgili.
- *VI Geoscience Swiss Meeting*, Bern (Switzerland), from 21-11-2006 to 24-11-2006. Swiss Academy of Sciences.
- *Workshop on Historical Climatology*, Barcelona, from 24-4-2006 to 26-4-2006. Department of Modern History of the University of Barcelona.
- *Eleven key questions about climate change*, Barcelona, from 1-2-2006 to 31-3-2006. Cosmocaixa, Fundació La Caixa.