

CURRICULUM VITAE – MARCH'18



Marc Oliva, PhD

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1.- PERSONAL DETAILS

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Institutional affiliation

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Scientific identification

ORCID ID: 0000-0001-6521-6388 / **Scopus ID:** 35225198700 / **Researcher ID:** K-5423-2014

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.

Early career researcher (37 yr, PhD since 2009) that has already coordinated 11 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 has recently started (May'17) as Ramón y Cajal researcher a new professional challenge at the Department of Geography of the UB, where he will expand his areas of research 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 7 field seasons in Antarctica and 2 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 Range, Serra da Estrela), which has provided him a wide comprehension of Earth surface processes in cold-climate environments and the interactions with human activities. He has published 67 SCI papers; remarkably, 53 have been published since 2014 (plus 10 more submitted and in revision), most of them have in top journals (39, Q1) on geomorphology and paleoclimate topics: Land Degradation and Development (9.8), Earth Science Reviews (IF: 7.1), Science of the Total Environment (IF: 4.9), Quaternary Science Reviews (IF: 4.8), The Cryosphere (IF: 4.8), Global and Planetary Change (IF: 3.9), Earth Surface Processes and Landforms (IF: 3.6), Geomorphology (IF: 3.0), etc. Also, he has published 70 chapters in books, 162 abstracts in conferences and coordinated 8 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, 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 Earth Sciences, University of Cambridge (UK)
- Department of Physics, University of Alcalá (Spain)
- Department of Geography, University of Oviedo (Spain)
- Department of Geography, Complutense University of Madrid (Spain)
- Institute of Earth Sciences Jaume Almera – CSIC (Catalonia)

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, 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, 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. 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 the Agència de Gestió i Ajuts Universitaris i de 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 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 “*XVIII INQUA-Congress. Quaternary sciences – the view from the mountains*”. 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 – 2010-2017 (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

- 2018** Fildes Peninsula, Livingston 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** 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 PARTICIPATION IN FUNDED RESEARCH PROJECTS

PRESENT

- 2018-2020 **PALEOGREEN** - *Glacial oscillations and climate variability in NE Greenland.* Ministerio de Economía y Competitividad, Spain, CTM2017-87976-P. PI: Dr **Marc Oliva**.
- 2017-2018 **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.
- 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**.
- 2017-2019 **ANTALP** - *Antarctic, Arctic, Alpine Environments.* Generalitat de Catalunya. Ajuts de Suport als Grups de Recerca, 2017 SGR 1102. PI: Dr **Marc Oliva**.

PAST

- 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 *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 **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**.
- 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.
- 2013-2014 *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**.
- 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.
- 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**.
- 2011-2013 **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.
- 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**.
- 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 PARTICIPATION IN RESEARCH CONTRACTS

- 2017-2018 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

- Convener 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-convener of the session “Reconstructing past environmental change in the Polar Regions” of the *POLAR2018*. Davos (Switzerland), 15-26th June 2018.
- Convener 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.
- Convener 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.
- Convener 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.
- Convener 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.
- Convener 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-convener 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-convener 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.
- Convener 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.
- Convener 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.
- Convener 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 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*, *Cuaternalario y Geomorfología*, *Cuadernos de Investigación Geográfica*, *Tourism Planning & Development*.
- Reviewer for international conferences: *IV Congreso de Ciències Polares*, *IV, V and VI Iberian Conferences of the International Permafrost Association*, *European Geosciences Union General Assembly 2013-2017*, *VII Congreso Nacional de Geomorfología 2015 (Portugal)*, *1st International Conference Sustainable Development Mountain Regions*.
- Referee for the Polish National calls for research projects, since March' 17.
- Referee for the Spanish National calls for research projects (Agencia Nacional de Evaluación y Prospectiva, ANEP), since September' 15.
- Referee for the Czech National calls for research projects and PhD fellowships, since July' 15.
- Referee for the National Science and Engineering Research Council of Canada for research projects, since December' 17.
- Referee for grant concession for the program *Nova geração de cientistas polares* of the *Caixa Geral* (Portugal), 2012.
- Referee for giving financial support to the organization of training schools within the European Geosciences Union during 2014, February 2014.

5.13 MEMBER OF PHD COMMITTEES

- 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, glaciario y periglaciario del complejo volcánico Ampato (Sur de Perú)*”, 12th November 2014.
- PhD candidate: Jesús Ruiz Fernández, University of Oviedo (Spain): “*Las formas de modelado glaciario, periglaciario 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: 9.8), since July'16.
- Journal Solid Earth (IF: 2.3), since November'15.
- 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
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'18.
- Co-chair of the Subdivision "*Soil as a record of the past*" within the "*Soils Division System (SSS)*" of the European Geosciences Union, since 2015.
- 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)”, since August 2015.
- 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, since 2010.

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 Congresso Nacional de Geomorfologia 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.
- *Social Transformations in Contemporary Society*. Mykolas Romeris University Doctoral Candidates' Association. Vilnius (Lithuania), 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: 750, 2015 (60), 2016 (134), 2017 (262), 2018 (67).
- H index = 15; H index (since 2013) = 14
- I10 index = 33; H index (since 2013) = 25

Scopus

- Total citations: 414, 2014 (32), 2015 (24), 2016 (89), 2017 (167), 2018 (73).
- H index = 13
- Total JCR publications: 62 (44 in Q1), since 2014: 52 (41 in Q1)

Research Gate

- Total citations: 649, 2015 (59), 2016 (177), 2017 (193), 2018 (25).
- H index = 14
- RG Score: 34.34

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

2018

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. (in press). Circumpolar Active Layer Monitoring in Antarctica (CALM-S): results from 2006-2015 and new perspectives. *Polar Geography*, doi: 10.1080/1088937X.2017.1420105.

Oliva, M.; Ruiz-Fernández, J.; Barriandos, M.; Benito, G.; Cuadrat, J.M.; García-Ruiz, J.M.; Giralt, S.; Gómez-Ortiz, A.; Hernández, A.; López-Costas, O.; López-Moreno, J.I.; López-Sáez, J.A.; Martínez-Cortizas, A.; Moreno, A.; Prohom, M.; Saz, M.A.; Serrano, E.; Tejedor, E., Trigo, R., Valero-Garcés, B. & Vicente-Serrano, S. (2018). The Little Ice Age in Iberian mountains. *Earth Science Reviews*, 177: 175-208.

García-Hernández, C.; Ruiz-Fernández, J.; **Oliva, M.** & Gallinar, D. (in press). El episodio de movimientos en masa asociado a la nevada de 1888, en el Macizo Asturiano. *Boletín de la Asociación de Geógrafos Españoles*.

Oliva, M.; Pereira & Antoniades, D. (2017). The environmental consequences of permafrost degradation in a changing climate. *Science of the Total Environment*, 616-617: 435-437.

García-Hernández, C.; Ruiz-Fernández, J.; Sánchez-Posada, C.; Pereira, S. & **Oliva, M.** (2018). An extreme event between the Little Ice Age and the 20th century: the avalanche cycle of 1888 in the Asturian Massif (northern Spain). *Cuadernos de Investigación Geográfica*, 44 (1): 187-212.

Oliva, M. (2018). The Little Ice Age, the climatic background of present-day warming in Europe. *Cuadernos de Investigación Geográfica*, 44 (1): 7-13.

Gómez-Ortiz, A.; **Oliva, M.**; Salvador-Franch, F.; Salvà-Catarineu, M. & Plana-Castellví, J.A. (2018). The geographical interest of historical documents to interpret the scientific evolution of the glacier existing in the Veleta cirque (Sierra Nevada, Spain) during the Little Ice Age. *Cuadernos de Investigación Geográfica*, 44 (1): 267-292.

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.

2017

Fernandes, M.; Palma, P.; Lopes, L.; Ruiz-Fernández, J.; Pereira, P. & **Oliva, M.** (2017). Spatial distribution and morphometry of permafrost-related landforms in the Central Pyrenees and associated paleoclimatic implications. *Quaternary International*, 584-585, 1282-1299.

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 and land degradation in central Spain during the late Holocene: The role of climatic and anthropogenic forcing. *Land Degradation and Development*, doi: 10.1002/ldr.2751.

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.

González-Guzmán, A.; **Oliva, M.**; Ruiz-Fernández, J.; Pérez-Alberti, A.; de Souza, V.S. & Otero, X.L. (2017). Biota and geomorphic processes as key environmental factors controlling soil formation at Elephant Point, Antarctica. *Geoderma*, 300: 32-43.

Oliva, M. & Ruiz-Fernández, J. (2017). Geomorphological processes and frozen ground conditions in Elephant Point (Livingston Island, South Shetland Islands, Antarctica). *Geomorphology*, 293 (B): 368-379.

Fernandes, M.; **Oliva, M.**; Palma, P.; Ruiz-Fernández, J. & Lopes, L. (2017). Glacial stages and post-glacial environmental evolution in the Upper Garonne valley, Central Pyrenees. *Science of the Total Environment*, 584-585, 1282-1299.

Palma, P.; **Oliva, M.**; García-Hernández, C.; Ruiz-Fernández, J.; Gómez-Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, F. (2017). Spatial characterization of glacial and periglacial landforms in the high lands of Sierra Nevada (Spain). *Science of the Total Environment*, 584-585:1256-1267.

Oliva, M.; Ruiz-Fernández, J.; Zarankin A.; Casanova-Katny, M.A. & Nofre, J. (2017). Geocology and historical heritage of the ice-free area of Elephant Point (Livingston Island, Antarctica). Proposal for future environmental protection. *Geoheritage*, 9 (1): 97-109.

Ruiz-Fernández, J.; **Oliva, M.**; García Hernández, C. (2017). Topographic and geomorphologic controls on the distribution of vegetable formations in Elephant Point (Livingston Island, Maritime Antarctica). *Science of the Total Environment*, 587-588: 340-349.

Martín-Díaz, J.; Nofre, J.; **Oliva, M.** & Palma, P. (2017). Incremento de los riesgos geomorfológicos en el espacio urbano de Sarajevo como consecuencia del proceso de suburbanización y las políticas de neoliberalización. *Estudios Geográficos*, Vol. LXXVII, 281, pp. 543-567.

Oliva, M.; Navarro, F.J.; Hrbáček, F.; Hernández, A.; Nývlt, D.; Pereira, P.; Ruiz-Fernández, J. & Trigo, R. (2017). Recent regional cooling of the Antarctic Peninsula and its impacts on the cryosphere. *Science of the Total Environment*, 580: 210-223.

2016

Oliva, M.; Pereira, P; Ruiz-Fernández, J.; Nieuwendam, A. (2016). Recent advances in the study of active layer thermal regime and seasonal frost dynamics in cold climate environments. *Catena*, 149 (2): 155-158.

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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Hrbáček, F.; **Oliva, M.**; Láska, K.; Ruiz-Fernandez, J.; de Pablo, M.A.; Vieira, G.; Ramos, M. & Nývlt, D. (2016). Active layer thermal regime in two climatically contrasted sites of the Antarctic Peninsula region. *Cuadernos de Investigación Geográfica*, 42 (2): 457-474.

Oliva, M. & Antoniades, D. (2016). Recent advances in the study of limnological processes in permafrost environments. *Sedimentary Geology*, 340: 1-2.

Ruiz-Fernández, J.; **Oliva, M.**; Hrbacek, F.; Vieira, G.; García-Hernández, C. & Gallinar, D. (2016). Soil temperatures in an Atlantic high mountain environment: The Forcadona buried ice patch (Picos de Europa, NW Spain). *Catena*, 149 (2): 637-647.

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Ruiz-Fernández, J. & **Oliva, M.** (2016). Relative palaeoenvironmental adjustments following deglaciation of the Byers Peninsula (Livingstone Island, Antarctica). *Arctic, Antarctic and Alpine Research*, 48 (2): 345-359.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S; Toro, M.; Sanjurjo, J.; Liu, E.J. & Vieira, G. (2016). The Holocene deglaciation of the Byers Peninsula (Livingston Island, Antarctica) based on the dating of lake sedimentary records. *Geomorphology*, 261: 89-102.

Oliva, M.; Serrano, E.; Gómez Ortiz, A.; González-Amuchastegui, M.J.; Nieuwendam, A.; Palacios, D.; Pellitero-Ondicol, R.; Pérez-Alberti, A.; Ruiz-Fernández, J.; Valcárcel, M.; Vieira, G. & Antoniades, D. (2016). Spatial and temporal variability of periglaciation of the Iberian Peninsula. *Quaternary Science Reviews*, 137: 176-199.

Aymerich, I.; **Oliva, M.**; Giralt, S. & Martín-Herrero, J. (2016). Detection of tephra layers in Antarctic sediment cores with hyperspectral imaging. *PLoS ONE*, 11 (1): e0146578. doi: 10.1371/journal.pone.0146578.

Oliva, M.; Gómez Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, M.; Ramos, M.; Palacios, D.; Tanarro, L.; Pereira, P. & Ruiz-Fernández, J. (2016). Inexistence of permafrost at the top of Veleta peak (Sierra Nevada, Spain). *Science of the Total Environment*, 550: 484-494.

Liu, E.J.; **Oliva, M.**; Antoniadou, D.; Giralt, S.; Granados, I.; Pla-Rabes, S.; Toro, M. & Geyer, A. (2016). Expanding the tephrostratigraphical framework for the South Shetland Islands, Antarctica, by combining compositional and textural tephra characterisation. *Sedimentary Geology*, 340: 49-61.

2015

Gómez Ortiz, A.; Palacios, D.; **Oliva, M.**; Salvador-Franch, F. & Salvà-Catarineu, M. (2015). The deglaciation of Sierra Nevada (Spain): synthesis of current knowledge and new contributions. *Cuadernos de Investigación Geográfica*, 41 (2): 409-426.

Pereira, P.; **Oliva, M.** & Misiune, I. (2015). Spatial interpolation of precipitation indexes in Sierra Nevada (Spain): comparing the performance of some interpolation methods. *Theoretical and Applied Climatology*, 126 (3): 683-698.

Fritz, M.; Deshpande, B. N.; Bouchard, F.; Höglström, E.; Lepage, J.; Morgenstern, A.; Nieuwendam, A.; **Oliva, M.**; Paquette, M.; Rudy, A. C. A.; Siewert, M. B.; Sjöberg, Y. & Weege, S. (2015). Future avenues for permafrost science from the perspective of early career researchers. *The Cryosphere*, 9, 1715-1720.

Nieuwendam, A.; Ruiz-Fernández, J.; **Oliva, M.**; Freitas, C.; Paio, V. & Cruces, A. (2015). Postglacial landscape changes and cryogenic processes in the Picos de Europa (Northern Spain) reconstructed from geomorphological mapping and microstructures on quartz grains. *Permafrost and Periglacial Processes*, 27: 96-108.

Oliva, M. & Ruiz-Fernández, J. (2015). Coupling patterns between paraglacial and permafrost degradation responses in Antarctica. *Earth Surface Processes and Landforms*, 40 (9): 1227-1238.

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Palacios, D.; Gómez-Ortiz, A.; de Andrés, N.; Vázquez-Selem, L.; Salvador-Franch, F. & **Oliva, M.** (2015). Maximum extent of Late Pleistocene glaciers and Last Deglaciation of La Cerdanya mountains, Southeastern Pyrenees. *Geomorphology*, 231: 116-129.

2014

Oliva, M.; Pereira, P.; Bockheim, J. & Navas, A. (2014). Soil processes in cold-climate environments. *Solid Earth*, 5: 1205-1208.

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Goyanes, G.; Vieira, G.; Caselli, A.; Mora, C.; Ramos, M.; de Pablo, M.A.; Neves, M.; Santos, F.; Bernardo, I.; Gilichinsky, D.; Abramov, A.; Batista, V.; Melo, R.; Nieuwendam, A.; Ferreira, A. & **Oliva, M.** (2014). Régimen térmico y variabilidad espacial de la capa activa en isla Decepción, Antártida. *Revista de la Asociación Geológica Argentina*, 71 (1): 112-124.

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Oliva, M.; Gómez Ortiz, A.; Salvador-Franch, F. & Salvà-Catarineu, M. (2014). Present-day solifluction processes in the semiarid range of Sierra Nevada (Spain). *Arctic, Antarctic and Alpine Research*, 46 (2): 73-78.

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Oliva, M.; Gómez Ortiz, A.; Palacios, D.; Salvador-Franch, F. & Salvà-Catarineu, M. (2014). El Cuaternario en el macizo de Sierra Nevada. Evolución paleoambiental y paisaje a partir de la interpretación de registros naturales y documentos de época. *Scripta Nova*, Vol. XVIII, nº 472, ISSN: 1138-9788.

Pereira, P.; Ubeda, X.; Mataix-Solera, J.; **Oliva, M.** & Novara, A. (2014). Short-term changes in soil Munsell colour value, organic matter content and soil water repellency after a spring grassland fire in Lithuania. *Solid Earth*, 5: 209-225.

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Oliva, M. & Gómez Ortiz, A. (2011). Holocene slope dynamics in Sierra Nevada (Southern Spain). Sedimentological analysis of solifluction landforms and lake deposits. In: Martini, I.P.; French, H.M. & Pérez Alberti, A. (eds.). *Ice-Marginal and Periglacial Processes and Sediments*. Geological Society, London, Special Publications, v. 354: 227-239. doi: 10.1144/SP354.15.

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6.3 ARTICLES IN NATIONAL JOURNALS

Gómez Ortiz, A.; **Oliva, M.**; Salvador-Franch, F.; Plana-Castellví, J.A.; Espinar Moreno, M. & Sánchez Gómez, S. (reviewed). La aportación documental de época en la explicación científica del foco glaciar del Corral del Veleta (Sierra Nevada, España). Bibio 3W.

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Toro, M.; Quesada, A.; Camacho, A.; **Oliva, M.**; Alcamí, A.; Antoniades, D.; Bañón, M.; Fassnacht, S.; Fernández-Valiente, E.; Galán, L.; Giralt, S.; Granados, I.; Justel, A.; Liu, E.J.; López-Bueno, A.; Martínez-Cortizas, A.; Pla-Rabes, S.; Rastrojo, A.; Rico, E.; Rochera, C.; Van de Vijver, B.; Velazquez, D.; Villaescusa, J.A.; Vincent, W.F. (2016). Actividad investigadora del CEDEX en la Antártida. Ecosistemas acuáticos de la Península Byers (Isla Livingston, Antártida marítima). *Ingeniería Civil*, 179: 175-191.

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6.4 EDITION OF JOURNALS

- Land Degradation & Development (IF: 9.8), 2017-2018. Paraglacial processes in recently deglaciated environments. **Guest Editors: M. Oliva, D. Mercier, J. Ruiz, S. McColl.**
- Cuadernos de Investigación Geográfica (IF: 2.0), 2017. The Little Ice Age in Europe. **Guest Editors: M. Oliva.**
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7.- PARTICIPATION IN CONFERENCES

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- Oliva, M.**; Antoniades, D.; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S. & Vieira, G. (2014). The Holocene deglaciation of the Byers Peninsula (Livingston, Antarctica) inferred from lake sediment records. *IV Conferência Portuguesa das Ciências Polares*. Porto (Portugal), 31-10-2014.
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- Oliva, M.** & Ruiz-Fernández (2014). Procesos geomorfológicos en Punta Elefante (isla Livingston, Antártida). *XIII Reunión de la Sociedad Española de Geomorfología*. Cáceres (Spain), 9-9-2014.
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- Oliva, M.**; Antoniades, D.; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S. & Vieira, G. (2014). The process of deglaciation of Byers Peninsula (Livingston Island, Maritime Antarctica) based on lake sediments. *2014 SCAR Open Science Conference*. Auckland (New Zealand), 27-8-2014.
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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.

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Oliva, M. & Moreno, I. (2008). Sierra Nevada, nexos 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.

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Oliva, M.; Schulte, L. & Gómez Ortiz, A. (2007). Lóbulos de gelisoliflucción 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. (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 - Antárctica 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.;** Vieira, G.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M. & Schimmelpfennig, I. (2016). CRONOBYSERS - 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.
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- 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). Proyecto 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. *XVIII Congress of the INQUA, Quaternary Sciences - the view from the mountains*. 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). *XVIII Congress of the INQUA, Quaternary Sciences - the view from the mountains*. 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). Reconstrucció 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, external geodynamics, Quaternary environments, climate variability, sedimentary records, field work.

8.2 FORMAL EDUCATION

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

- **Lecturer**, *Environmental Impact assessment*. Course 2017/2018.
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). 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 ADVANCED STUDENTS

MSc Student: Marcelo Fernandes

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

Degree: MSc in Geography (17/20)

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

MSc Student: Carolina Luz

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

Degree: MSc in Chemistry (17/20)

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

8.7 TEACHING ACCREDITATIONS

- **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 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.