

CURRICULUM VITAE – NOVEMBER'20



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	8
5.12 REFEREE ACTIVITIES	8
5.13 MEMBER OF DISSERTATION COMMITTEES	9
5.14 MEMBER OF EDITORIAL BOARDS	9
5.15 MEMBER OF SCIENTIFIC ASSOCIATIONS	9
5.16 REPRESENTATION IN INTERNATIONAL ORGANIZATIONS	9
5.17 MEMBER OF THE SCIENTIFIC COMMITTEE IN CONFERENCES	10
5.18 ORGANIZING COMMITTEES IN CONFERENCES	10
5.19 RESEARCH STATISTICS	10
6.- PUBLICATIONS	
6.1 THESIS	11
6.2 ARTICLES IN INTERNATIONAL PEER-REVIEWED JOURNALS	11
6.3 ARTICLES IN NATIONAL JOURNALS	15
6.4 EDITION OF JOURNALS	16
6.5 EDITION OF BOOKS	17
6.6 BOOK CHAPTERS	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	36
7.2 INVITED LECTURES	39
7.3 POSTER PRESENTATIONS IN CONFERENCES	39
8.- TEACHING EXPERIENCE	
8.1 TEACHING INTERESTS	43
8.2 FORMAL EDUCATION	43
8.3 NON-FORMAL EDUCATION	44
8.4 TRAINING LECTURES	44
8.5 ORGANIZATION OF TRAINING ACTIVITIES	46
8.6 MENTORING OF ADVANCED STUDENTS	47
8.7 TEACHING ACCREDITATIONS	48
8.8 TEACHING PUBLICATIONS	48
9.- OTHERS	
9.1 WORKSHOPS AND COURSES RECEIVED	49
9.2 ATTENDANCE TO WORKSHOPS, COURSES AND FIELD TRIPS	49

1.- PERSONAL DETAILS

Marc Oliva i Franganillo (46136892-L)

oliva_marc@yahoo.com / marcoliva@ub.edu, +34 616104266

Institutional affiliation

Department of Geography, University of Barcelona
Montalegre, 6-8, 3rd floor, 08001 - Barcelona

Research identifiers

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

Research collaborator

Centro de Estudos Geográficos-IGOT, University of Lisbon

4.- ACADEMIC BACKGROUND

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

5.- RESEARCH EXPERIENCE

5.1 RESEARCH GROUPS

IP of the Research Group

Antarctic, Arctic and Alpine Environments (ANTALP), University of Barcelona

www.marcoliva.com

Member of other Research Groups:

College of Polar Sciences and Extreme Environments (POLAR2E), University of Lisbon, Portugal

<http://polar2e.ulisboa.pt/>

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-IGOT, 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. Highest scientific production in the field of Geography. 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	B

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, Spain.
1-7-2014 to 14-5-2017	Research scientist. Centro de Estudos Geográficos-IGOT. 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-IGOT. 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-IGOT. University of Lisbon. Funded by the Agència de Gestió i Ajuts Universitaris i de Recerca, Catalonia.
1-1-2010 to 30-12-2010	Postdoctoral researcher (FCT fellowship). Centro de Estudos Geográficos-IGOT. 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, Spain.
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, Spain.
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, Catalonia.
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, Spain.
1-10-2002 to 30-6-2003	Seneca Fellowship at the University of Santiago de Compostela. Funded by the Ministry of Education, Spain.

5.6 GRANTS/FELLOWSHIPS

- Grant for International mobility of professors and promotion of internationalization of the centres of the University of Barcelona – 2019 to lecture a course at the Master in Polar and Marine Sciences (POMOR), Saint Petersburg University. 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** Zackenberg valley (NE Greenland), from 2-9-2019 to 17-9-2019.
Topics: cosmogenic sampling, geomorphological mapping, deglaciation reconstruction.
- 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 (NE Greenland), from 17-7-2018 to 8-8-2018.
Topics: cosmogenic sampling, geomorphological mapping, lake coring, 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: geomorphological mapping, cosmogenic sampling, permafrost monitoring.
- 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)

- 2019-2022 **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**.
- 2018-2021 **PALEOGREEN** - *Glacial oscillations and climate variability in NE Greenland*. Ministerio de Economía y Competitividad, Spain, CTM2017-87976-P. PI: Dr **Marc Oliva**.
- 2017-2020 **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 **CRONOBYERS** - *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

- 2020-2022 College of Polar Sciences and Extreme Environments (POLAR2E), University of Lisbon, Portugal. Fundação para a Ciência e a Tecnologia. PI: Dr **Gonçalo Vieira**, Ricardo Trigo and Zita Martins.
- 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-convener of the session “Past environments in permafrost regions/Methods to measure, monitor, and sample cryosols and permafrost” within the *1st Southern Hemisphere Conference on Permafrost (SouthCOP)*. Queenstown (New Zealand), 4-14 December 2019.
- Co-convener of the session “Permafrost and periglacial ice-free areas in Antarctica” within the *13th International Symposium on Antarctic Earth Science*. Incheon (Republic of Korea), 22-26 July 2019.
- Co-convener of the session “The cryosphere and its interactions with meteorology and the climate system” within the European Meteorological Society, EMS Annual Meeting 2018. Budapest (Hungary), 5-9th September 2018.
- 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*. University of Barcelona. Barcelona (Catalonia), January 2007.

- Organization of the seminar: *1st scientific meeting of the Landscape Research laboratory*. 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: *Nature Geoscience, 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: *1st Southern Hemisphere Conference on Permafrost, 5th European Conference on Permafrost, POLAR-2018, 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 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 Polish National calls for research projects, since March'17.
- Evaluator for National Science and Engineering Research Council of Canada for research projects, since December'17.
- Evaluator and member of the panel of the call for research projects the Research Council of Norway, since July'19.
- Evaluator of the call for research projects the French Polar Institute, since August'20.
- Evaluator for the SCAR Fellowships scheme of the *Scientific Committee on Antarctic Research*, 2020.
- Evaluator for the organization of training schools within the European Geosciences Union during 2014, 2014.
- Evaluator for grant concession for the program *Nova geração de cientistas polares* of the *Caixa Geral* (Portugal), 2012.

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
EGU	European Geosciences Union
MRI	Mountain Research Initiative
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

- *Southern Hemisphere Conference on Permafrost (SouthCOP)*. Queenstown (New Zealand), 4-14th December 2019.
- *VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), 25-27th June 2019.
- *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.

5.18 ORGANIZING COMMITTEES IN CONFERENCES

- *6th European Conference on Permafrost*, International Permafrost Association. Puigcerdà (Catalonia), 19-24 June 2022.
- *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: 2116, 2017 (248), 2018 (363), 2019 (479), 2020 (548).
- H index = 25; H index (since 2015) = 24.
- I10 index = 65, I10 index (since 2015) = 58.

Scopus

- Total citations: 1393, 2017 (190), 2018 (277), 2019 (340), 2020 (395).
- H index = 21.
- Total publications: 90 (60 in Q1), since 2016: 64.

Research Gate

- Total citations: 1852, 2017 (223), 2018 (244), 2019 (438), 2020 (356).
- H index = 23.
- RG Score: 37.31.

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

García-Oteyza, J.; **Oliva, M.**; Palacios, D.; Ruiz-Fernández, J.; Andrés, N.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; Christiansen, H. & ASTER Team (*to be submitted*). The deglaciation of the Zackenberg valley, NE Greenland. *Quaternary Science Reviews*.

Fernández-Fernández, J.M.; **Oliva, M.**; Palacios, D.; García-Oteyza, J.; Navarro, F.; Schimmelpfennig, I.; Léannid, L. & ASTER Team (*to be submitted*). Ice thinning in nunataks following the Last Glacial Maximum in the Hurd Peninsula (Livingston Island, Antarctica). *Quaternary Science Reviews*.

Bonsoms, J.; González-Herrero, S.; Prohom, M.; Salvador-Franch, F. & **Oliva, M.** (*to be submitted*). Snow variability in the eastern Pyrenees (NE Iberia). *International Journal of Climatology*.

Bonsoms, J.; Salvador-Franch, F. & **Oliva, M.** (*submitted*). Snowfall and snow cover evolution in the Eastern Pre-Pyrenees (NE Iberian Peninsula). *Cuadernos de Investigación Geográfica*.

Oliva, M.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; Antoniades, A.; González-Díaz, B.; Goyanes, G.; Vieira, G.; ASTER Team & Ruiz-Fernández, J. (*submitted*). Recent Antarctic glacial thinning is unprecedented since the Last Glacial Maximum. *Science Advances*.

reviewed

2020

Fernandes, M.; **Oliva, M.**; Vieira, G. (2020). Paraglacial slope failures in the Aran valley (Central Pyrenees). *Quaternary International*, doi: 10.1016/j.quaint.2020.07.045.

Palacios, D.; **Oliva, M.**; Gómez-Ortiz, A.; Andrés, N.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; Léannid, L. & ASTER Team (2020). Climate sensitivity and geomorphologic response of cirque glaciers from the late glacial to the Holocene, Sierra Nevada, Spain. *Quaternary Science Reviews*, 248: 106617.

Etzelmüller, B.; Guglielmin, M.; Hauck, C.; Hilbich, C.; Hoelzle, M.; Isaksen, K.; Nötzli, J.; **Oliva, M.**; Ramos, M. & Vieli, A. (2020). Twenty years of European mountain permafrost dynamics – the PACE legacy. *Environmental Research Letters*, doi: 10.1088/1748-9326/abae9d.

Ruiz-Fernández, J.; **Oliva, M.**; Otero, X.L. & García-Hernández, C. (2020). Morphometric and sedimentological characteristics of Late Holocene earth hummocks in the Zackenberg valley (NE Greenland). *Science of the Total Environment*, 737: 140281.

Oliva, M.; Sarikaya, A. & Hughes, P. (2020). Holocene and earlier glaciations in the Mediterranean mountains. *Mediterranean Geoscience Reviews*, 2 (1): 1-4.

Ruiz-Fernández, J. & **Oliva, M.** (2020). Geomorphological processes in the Ala Archa National Park (Kyrgyzstan, Tian Shan Range). *Geografía Física e Dinámica Cuaternaria*, 42 (2): 255-268.

Palacios, D.; Ruiz-Fernández, J.; **Oliva, M.**; Andrés, N.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; Leanni, L.; González-Díaz, B. & ASTER Team (2020). Timing of formation of neoglacial landforms in the South Shetland Islands (Antarctic Peninsula): Regional and global implications. *Quaternary Science Reviews*, 234: 106248.

Hrbáček, F.; **Oliva, M.**; Ruiz Fernández, J.; Kňazková, M. & de Pablo, M.A. (2020). Modelling ground thermal regime in bordering (dis)continuous permafrost environments. *Environmental Research*, 181: 108901.

2019

Oliva, M.; Gómez-Ortiz, A.; Palacios, D.; Salvador-Franch, F.; Andrés, N.; Tanarro, L.M.; Fernández-Fernández, J.M. & Barriocanal, C. (2019). Multiproxy reconstruction of Holocene glaciers in Sierra Nevada (south Spain). *Mediterranean Geoscience Reviews*, doi 10.1007/s42990-019-00008-2.

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

Ruiz-Fernández, J.; **Oliva, M.**; Hughes, P. (2019). Permafrost and periglacial processes in mid- and low-latitude mountains regions. *Permafrost and Periglacial Processes*, 30 (4): 245-248.

Oliva, M.; Antoniades, D.; Serrano, E.; Giralt, S.; Liu, E.J.; Granados, I.; Pla-Rabes, S.; Toro, M.; Hong, S.G. & Vieira, G. (2019). The deglaciation of Barton Peninsula (King George Island, South Shetland, Antarctica) based on geomorphic evidence and lacustrine records. *Polar Record*, 55 (3): 177-188.

Hrbáček, F.; Nývlt, D.; Láska, K.; Kňázková, M.; Engel, Z.; **Oliva, M.** & Mueller, C.W. (2019). Permafrost and active layer research on James Ross Island: An overview. *Czech Polar Reports*, 9 (1): 20-36.

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*, 30 (4): 278-291.

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. & Antoniades, D. (2019). Patterns of spatio-temporal paraglacial response in the Antarctic Peninsula region and associated ecological implications. *Earth-Science Reviews*, 192: 379-402.

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.; Eitzelmüller, 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.; Johannsson, 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*, 55 (4). 216-219.

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.

2018

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.

Lopes, L.; **Oliva, M.**; Fernandes, M.; Pereira, P.; Palma, P. & Ruiz-Fernández, J. (2018). Spatial distribution of morphometric parameters of glacial cirques in the Central Pyrenees (Aran and Boí valleys). *Journal of Mountain Science*, 15 (10): 2103-2119.

Oliva, M. & Ruiz-Fernández, J. (2018). Late Quaternary environmental dynamics in Lenin Peak area (Pamir Mountains, Kyrgyzstan). *Science of the Total Environment*, 645: 603-614

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. & Yıldırım, C. (2018). Permafrost conditions in the Mediterranean region since the Last Glaciation. *Earth-Science Reviews*, 185: 397-436.

Andrés, N.; Gómez-Ortiz, A.; Fernández-Fernández, J.M.; Tanarro, L.M.; Salvador-Franch, F.; **Oliva, M.** & Palacios, D. (2018). Timing of deglaciation and rock glacier origin in the southeastern Pyrenees: a review and new data. *Boreas*, 47 (4): 1050-1071.

Oliva, M. & Fritz, M. (2018). Permafrost degradation in a warmer Earth: challenges and perspectives. *Current Opinion in Environmental Science and Health*, 5: 14-18.

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.

Oliva, M.; Ruiz-Fernández, J.; Barriendos, M.; Benito, G.; Cuadrat, J.M.; García-Ruiz, J.M.; Giralte, 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. (2018). El episodio de movimientos en masa asociado a la nevada de 1888 en el Macizo Asturiano. *Boletín de la Asociación de Geógrafos Españoles*, 76, 52-78.

Oliva, M.; Pereira & Antoniades, D. (2018). 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.

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.

2017

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.

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.

Ruiz-Fernández, J.; **Oliva, M.**; Hrbáček, F.; Vieira, G.; García-Hernández, C. & Gallinar, D. (2017). Soil temperatures in an Atlantic high mountain environment: The Forcadona buried ice patch (Picos de Europa, NW Spain). *Catena*, 149 (2): 637-647.

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.

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.

Correia, A.; **Oliva, M.** & Ruiz-Fernández, J. (2017). Evaluation of frozen ground conditions along a coastal topographic gradient at Byers Peninsula (Livingston Island, Antarctica) by geophysical and geocological methods. *Catena*, 149 (2): 529-537.

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.

2016

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.

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.; 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.

Ruiz-Fernández, J.; **Oliva, M.**; Cruces, A.; Lopes, V.; Freitas, C.; García-García, C.; Geraldés, M. & López-Sáez, J.A. (2016). Environmental evolution in the Picos de Europa (Cantabrian Mountains, SW Europe) since the Last Glaciation. *Quaternary Science Reviews*, 138: 87-104.

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 periglacial 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.**; Antoniades, 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.; Högström, 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.

Martín-Díaz, J.; Nofre, J.; **Oliva, M.** & Palma, P. (2015). Towards an unsustainable urban development in post-war Sarajevo. *Area*, 47 (4): 376-385.

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.

Oliva, M.; Gómez-Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, M.; Pereira, P. & Geraldés, M. (2014). Long term soil temperature dynamics in the Sierra Nevada, Spain. *Geoderma*, 235-236: 170-181.

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.

Oliva, M.; Vieira, G.; Pina, P.; Pereira, P.; Neves, M. & Freitas, C. (2014). Sedimentological characteristics of ice-wedge polygon terrain in Adventdalen valley (Svalbard) - environmental and climatic implications for the late Holocene. *Solid Earth*, 5: 901-914.

Gómez-Ortiz, A.; **Oliva, M.**; Salvador-Franch, F.; Salvà-Catarineu, M.; Palacios, D.; Sanjosé, J.J.; Tanarro, L.; Galindo-Zaldívar, J. & Sanz de Galdeano, C. (2014). Degradation of buried ice and permafrost in the Veleta cirque (Sierra Nevada, Spain) from 2006-2013. *Solid Earth*, 5, 979-993.

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.

Oliva, M.; Gómez-Ortiz, A.; Palacios, D.; Salvador-Franch, F. & Salvà-Catarineu, M. (2014). Environmental evolution in Sierra Nevada (South Spain) since the Last Glaciation based on multi-proxy records. *Quaternary International*, 353: 195-209.

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.

2013 and before

Gómez-Ortiz, A.; **Oliva, M.**, Salvà-Catarineu, M. & Salvador-Franch, F. (2013). The environmental protection of landscapes in the high semiarid Mediterranean mountain of Sierra Nevada National Park (Spain): historical evolution and future perspectives. *Applied Geography*, 42: 227-239.

Gómez-Ortiz, A.; Palacios, D.; Palade, B.; Vázquez-Selem, L.; Salvador-Franch, F.; Tanarro, L. & **Oliva, M.** (2013). La evolución glacial de Sierra Nevada y la formación de glaciares rocosos. *Boletín de la Asociación de Geógrafos Españoles*, 61: 139-162.

Oliva, M. & Gómez-Ortiz, A. (2012). Late Holocene environmental dynamics and climate variability in a Mediterranean high mountain environment (Sierra Nevada, Spain) inferred from lake sediments and historical sources. *The Holocene*, 22 (8): 915-927.

Oliva, M. & Gómez-Ortiz, A. (2012). Palaeoecological evolution in Sierra Nevada (Southern Spain) over the last millennium inferred from solifluction landforms, lake sediments and documentary sources. *Quaternary International*, 279-280, 359.

Oliva, M., Vieira, G.; Mora, C.; Trindade, A. & Jorge, M. (2012). Preliminary results of the Holocene palaeoenvironmental evolution in the Serra da Estrela (Portugal). *Quaternary International*, 279-280, 359.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2011). The role of aridification in constraining the elevation range of Holocene solifluction processes and associated landforms in the periglacial belt of the Sierra Nevada (Southern Spain). *Earth Surface Processes and Landforms*, 36: 1279-1291.

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.

Oliva, M. (2011). Evolución cuaternaria del paisaje de cumbres en Sierra Nevada. *Cuaternario y Geomorfología*, 25 (1-2): 21-44.

Gómez-Ortiz, A.; **Oliva, M.**, Salvà-Catarineu, M. & Salvador-Franch, F. (2010). El paisaje como valor patrimonial en los espacios protegidos: el caso del Parque Nacional de Sierra Nevada (España). *Scripta Nova*. XIV, nº 346.

Oliva, M. (2010). Holocene alpine environments in Sierra Nevada (Southern Spain). *Boletín de la Asociación de Geógrafos Españoles*, 54: 503-508.

Oliva, M.; Gómez-Ortiz, A. & Schulte, L. (2010). Tendencia a la aridez en Sierra Nevada desde el Holoceno Medio inferida a partir de sedimentos lacustres. *Boletín de la Asociación de Geógrafos Españoles*, 52: 27-42 and 349-351.

Pereira, P.; **Oliva, M.** & Baltreñaite, E. (2010). Modeling extreme precipitation in hazardous mountainous areas. Contribution to landscape planning and environmental management. *Journal of Environmental Engineering and Landscape Management*, 18 (4): 329-342.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2009). Morphometry and Late Holocene activity of solifluction landforms in the Sierra Nevada (Southern Spain). *Permafrost and Periglacial Processes*, 20 (4): 369-382.

Schulte, L.; Julià, R.; **Oliva, M.**; Burjachs, F.; Veit H. & Carvalho, F. (2008). Sensitivity of alpine fluvial environments in the Swiss Alps to climate forcing during the Late Holocene. *Sediment Dynamics in Changing Environments*. International Association of Hydrological Sciences Publications, 325: 367-374.

6.3 ARTICLES IN NATIONAL JOURNALS

Araneda, C.; Palfner, G.; **Oliva, M.**; Fernández-Fernández, J.M & Casanova-Katny, A. (*submitted*). Impact of the penguin colony from Punta Descubierta on the communities and distribution of Bryophytes in Deception Island, maritime Antarctica. *Gayana Botánica*.

Oliva, M. (2018). La geomorfología a Catalunya: situació actual i perspectives de futur. *Treballs de la Societat Catalana de Geografia*, 86: 111-117.

Gómez-Ortiz, A.; Salvador-Franch, F. & **Oliva, M.** (2018). Significado científico y valor patrimonial del glaciar histórico del Corral del Veleta (Sierra Nevada). *Universidad, Escuela y Sociedad*, 5, 12-30.

Oliva, M.; Ruiz-Fernández; Zarankin A.; Casanova-Katny, M.A. & Nofre, J. (2017). Propuesta de protección ambiental para un enclave libre de hielo de la Antártida marítima (Punta Elefante, isla Livingston). *Espacio, Tiempo y Forma*, 10: 179-201.

Ruiz-Fernández, J.; **Oliva, M.**; García-Hernández, C. (2016). Procesos geomorfológicos y formas del relieve en dos cuencas lacustres de la Península Byers (Isla Livingston, Antártida Marítima): implicaciones paleoambientales. *Polígonos*, 28: 211-237.

Gómez-Ortiz, A & **Oliva, M.** (2016). El paisaje de cumbres de Sierra Nevada. Notas que resaltan sus valores patrimoniales y proyección didáctica desde la Geografía. *Universidad, Escuela y Sociedad*, 1: 42-62.

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.

Pereira, P. & **Oliva, M.** (2014). Modelling soil water repellency in an abandoned agricultural field. *Visnyk Geology*, 4 (63): 77-80.

Gómez-Ortiz, A.; **Oliva, M.**; Salvador-Franch, F.; Salvà-Catarineu, M.; Milheiro, B.; Plana, J.A.; Espinar, M.; García, A.L.; Sánchez-Gómez, S. & Serrano, D. (2012). El paisaje reciente de Sierra Nevada. Documentos escritos de época y significado geográfico de la Pequeña Edad del Hielo. *Nimbus*, 29-30: 305-319.

Oliva, M. & Gómez-Ortiz, A. (2011). Factores que condicionan los procesos periglaciares de vertiente actuales en Sierra Nevada. El caso de la soliflucción. *Nimbus*, 27-28: 137-158.

Oliva, M.; Gómez-Ortiz, A.; Schulte, L. & Salvador-Franch, F. (2009). Procesos periglaciares actuales en Sierra Nevada. Distribución y morfometría de los lóbulos de soliflucción en los altos valles nevadenses. *Nimbus*, 23-24: 133-148.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2009). Aportaciones al conocimiento de los lóbulos de soliflucción y cambios ambientales holocenos en Sierra Nevada. *Finisterra*, 87: 13-23.

6.4 EDITION OF JOURNALS

- Mediterranean Geoscience Reviews, 2019-2020. Holocene and earlier glaciations in the Mediterranean Mountains. **Guest Editors: M. Oliva, A. Sarikaya, P. Hughes.**
- Permafrost and Periglacial Processes (IF: 2.8), 2018-2019. Permafrost and periglacial processes in mid- and low-latitude mountains regions. **Guest Editors: J. Ruiz-Fernández, M. Oliva, P. Hughes.**
- Land Degradation & Development (IF: 9.8), 2017-2018. Paraglacial processes in recently deglaciated environments. **Guest Editors: M. Oliva, D. Mercier, J. Ruiz-Fernández, S. McColl.**
- Cuadernos de Investigación Geográfica (IF: 2.0), 2017. The Little Ice Age in Europe. **Guest Editors: M. Oliva.**

- Quaternary International (IF: 2.1), 2017. Past environments in mid-altitude mountains. **GE Guest Editors M. Oliva, J. Ruiz-Fernández, D. Nývlt.**
- Science of the Total Environment (IF: 4.9), 2016. Consequences of permafrost degradation in a changing climate. **Guest Editors: M. Oliva, P. Pereira, D. Antoniades.**
- Catena (IF: 2.8), 2016, issue 149. Active layer thermal regime and seasonal frost dynamics in cold climate environments. **Guest Editors: M. Oliva, P. Pereira, A. Nieuwendam, J. Ruiz-Fernández.**
- SOIL, 2016, issue 2. Soil as a Record of the Past. **Guest Editors: S. Kluiving, M. Oliva, D. Sauer, I. Simpson, J. Homburg.**
- Sedimentary Geology (IF: 2.7), 2015, issue 340. Limnological processes in permafrost areas. **Guest Editors: M. Oliva, D. Antoniades.**
- Solid Earth (IF: 2.3), 2014, issue 5-6. Soil processes in cold environments. **Guest Editors: M. Oliva, P. Pereira, J. Bockheim, A. Navas.**

6.5 EDITION OF BOOKS

- **Oliva, M.**, Palacios, D. & Fernández-Fernández, J.M. (eds.) (in prep.). *Iberia, land of glaciers*. Elsevier.
- **Oliva, M.** & Ruiz-Fernández, J. (eds.) (2020). *Past Antarctica*. Elsevier, ISBN: 978-0-12-817925-3, 301 pp.
- Ruiz-Fernández, J., García-Hernández, C. **Oliva, M.** Rodríguez-Pérez, C. & Gallinar, D. (eds.) (2017). *Ambientes periglaciares: avances en su estudio, valoración patrimonial y riesgos asociados*. Publicaciones de la Universidad de Oviedo, 287 pp., ISBN: 978-84-16664-56-6.
- Gómez-Ortiz, A., Salvador-Franch, F., **Oliva, M.** & Salvà-Catarineu, M. (eds.) (2014). *Avances, métodos y técnicas en el estudio del periglaciario*. Publicacions de la Universitat de Barcelona, 348 pp., ISBN: 978-84-475-3830-0.

6.6 BOOKS CHAPTERS

2020

- Oliva, M.**; Palacios, D. & Fernández-Fernández, J.M. (in press). Iberia: Land of the ancient glaciers. In: Oliva, M.; Palacios, D. & Fernández-Fernández, J.M. (eds.). *Iberia, land of glaciers*. Elsevier.
- Palacios, D.; **Oliva, M.** & Fernández-Fernández, J.M. (in press). The impact of the Quaternary Ice Ages on the landscape. In: Oliva, M.; Palacios, D. & Fernández-Fernández, J.M. (eds.). *Iberia, land of glaciers*. Elsevier.
- Gómez-Ortiz, A., **Oliva, M.**; Palacios, D. & Salvador-Franch, F. (in press). Glaciers in the Sierra Nevada. In: Oliva, M.; Palacios, D. & Fernández-Fernández, J.M. (eds.). *Iberia, land of glaciers*. Elsevier.
- Oliva, M.**; Fernández-Fernández, J.M. & Palacios, D. (in press). Glaciers in the Iberian Peninsula. In: Palacios, D.; Hughes, P.; García-Ruiz, J.M. & Andrés, N. (eds.). *European glacial Landscapes*. Elsevier.
- Oliva, M.** & Ruiz-Fernández, J. (2020). Preface Past Antarctica. In: Oliva, M. & Ruiz-Fernández (eds.). *Past Antarctica*. Elsevier, p. 21.
- Ruiz-Fernández, J. & **Oliva, M.** (2020). Introduction to Past Antarctica. In: Oliva, M. & Ruiz-Fernández (eds.). *Past Antarctica*. Elsevier, pp. 22-24.
- Giralt, S.; Hernández, A.; Pla-Rabés, S.; Antoniades, D.; Toro, M.; Granados, I. & **Oliva, M.** (2020). Holocene environmental changes deduced from lake sediments. In: Oliva, M. & Ruiz-Fernández (eds.). *Past Antarctica*. Elsevier, pp. 51-68.
- Nývlt, D.; Glasser, N.F.; **Oliva, M.**; Roberts, S.J. & Roman, M. (2020). Tracing the deglaciation since the Last Glacial Maximum. In: Oliva, M. & Ruiz-Fernández (eds.). *Past Antarctica*. Elsevier, pp. 89-108.

2018

- Oliva, M.**; Ruiz-Fernández, J.; Palacios, D.; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabés, S. & Toro, M. (2018). Cronología del retroceso glacial en las islas Shetland del Sur (Antártida): desafíos y perspectivas. In: Blanco-Chao, R.; Casteillo, F.; Costa-Casais, M.; Horacio, J. & Valcárcel, M. (eds.). *Xeomorfoloxía e paisaxes xeográficas. Catro décadas de investigación e ensino. Homenaxe a Augusto Pérez Alberti*. Publicacións da Universidade de Santiago de Compostela, pp. 345-360.
- Oliva, M.** & Ruiz-Fernández, J. (2018). Glacial and periglacial processes in Lenin Peak (Pamir range, Kyrgyzstan). In: García, C.; Gómez-Pujol, L.; Morán-Tejeda, E. & Batalla, R.J. (eds.). *Geomorfología del Antropoceno. Efectos del cambio global sobre los procesos geomorfológicos*. Universitat de les Illes Balears, Sociedad Española de Geomorfología, Palma, pp. 189-192.
- Oliva, M.**; Žebre, M.; Guglielmin M.; Çiner, A.; Vieira, G.; Andrés, N.; Bodin, X.; Colucci, R.; Gómez-Ortiz, A.; Hughes, P.; Palacios, D.; Pérez-Alberti, A.; Ruiz-Fernández, J.; Sarikaya, M.A.; Serrano, E.; Urdea, P.; Valcárcel, M. & Yildirim, C. (2018). La existencia de permafrost en la Cuenca Mediterránea desde la Última Glaciación. In: García, C.;

Gómez-Pujol, L.; Morán-Tejeda, E. & Batalla, R.J. (eds.). *Geomorfología del Antropoceno. Efectos del cambio global sobre los procesos geomorfológicos*. Universitat de les Illes Balears, Sociedad Española de Geomorfología, Palma, pp. 185-188.

Palacios, D.; Gómez-Ortiz, A.; Alcalá-Reygosa, J.; Andrés, N.; **Oliva, M.**; Tanarro, L.M. & Salvador-Franch, F. (2018). Avance de nuevos datos sobre el glaciario de Sierra Nevada. In: García, C.; Gómez-Pujol, L.; Morán-Tejeda, E. & Batalla, R.J. (eds.). *Geomorfología del Antropoceno. Efectos del cambio global sobre los procesos geomorfológicos*. Universitat de les Illes Balears, Sociedad Española de Geomorfología, Palma, pp. 381-384.

Ruiz-Fernández, J.; **Oliva, M.**; García-Hernández, C. & Pérez-Alberti, A. (2018). Formas y procesos geomorfológicos en PUnta Barnard, Isla Livingston, Antártida Marítima. In: García, C.; Gómez-Pujol, L.; Morán-Tejeda, E. & Batalla, R.J. (eds.). *Geomorfología del Antropoceno. Efectos del cambio global sobre los procesos geomorfológicos*. Universitat de les Illes Balears, Sociedad Española de Geomorfología, Palma, pp. 193-196.

Ruiz-Fernández, J. & **Oliva, M.** (2018). Observaciones geomorfológicas en el Parque Nacional de Ala Archa (Kirguistán, Cordillera del Tian Shan). In: García, C.; Gómez-Pujol, L.; Morán-Tejeda, E. & Batalla, R.J. (eds.). *Geomorfología del Antropoceno. Efectos del cambio global sobre los procesos geomorfológicos*. Universitat de les Illes Balears, Sociedad Española de Geomorfología, Palma, pp. 197-200.

2017

Ruiz-Fernández, J., García-Hernández, C.; González-Díaz, B. & **Oliva, M.** (2017). Morfología y evolución glaciar de un macizo de alta montaña de la Cordillera Cantábrica desde la Última Glaciación. In: Pérez-Díaz, S.; Ruiz-Fernández, J.; López-Sáez, J.A. & García-Hernández, C. (eds.). *Cambio climático y cultural en la Península Ibérica: una perspectiva geohistórica y paleoambiental*. Publicaciones de la Universidad de Oviedo, pp. 31-58.

Gómez-Ortiz, A.; **Oliva, M.**; Salvador-Franch, F.; Salvà-Catarineu, M. & Plana Castellví, J.A. (2017). Evolución reciente del foco glaciar del Corral del Veleta (Sierra Nevada): interés científico de la documentación escrita de época (siglos XVIII-XX). *Naturaleza, territorio y ciudad en un mundo global*. Publicaciones de la Asociación de Geógrafos Españoles, pp. 163-171.

Gómez-Ortiz, A.; **Oliva, M.**; Salvador-Franch, F.; Plana-Castellví, J.A.; Espinar Moreno, M. & Sánchez Gómez, S. (2017). La aportación documental de época en la explicación científica del foco glaciar del Corral del Veleta (Sierra Nevada, España). In: Tresaco, M.P., Cadena, M.L. & Claver, A.M. (eds.). *Otro viaje extraordinario*. Prensas de la Universidad de Zaragoza, Zaragoza, pp. 275-290.

García-Hernández, C.; Ruiz-Fernández, J.; **Oliva, M.**; Rodríguez-Pérez, C. & Gallinar, D. (2017). Aplicación de un análisis de redes sociales a la comunidad científica que estudia los medios periglaciares en la Península Ibérica: metodología y primeros resultados. In: Ruiz-Fernández, J.; García-Hernández, C.; **Oliva, M.**; Rodríguez-Pérez, C. & Gallinar, D. (eds.). *Ambientes periglaciares: avances en su estudio, valoración patrimonial y riesgos asociados*. Publicaciones de la Universidad de Oviedo, pp. 21-25.

Andrés, N.; Gómez-Ortiz, A.; Salvador-Franch, F.; **Oliva, M.** & Palacios, D. (2017). The origin of fossil rock glaciers in Sierra Nevada. In: Ruiz-Fernández, J.; García-Hernández, C.; **Oliva, M.**; Rodríguez-Pérez, C. & Gallinar, D. (eds.). *Ambientes periglaciares: avances en su estudio, valoración patrimonial y riesgos asociados*. Publicaciones de la Universidad de Oviedo, pp. 113-120.

Gómez-Ortiz, A.; **Oliva, M.**; Salvador-Franch, F.; Salvà-Catarineu, M.; Plana-Castellví, J.A. & Domínguez, M. (2017). La unidad geomorfológica del Veleta: singularidad patrimonial del Parque Nacional de Sierra Nevada (España). In: Ruiz-Fernández, J.; García-Hernández, C.; **Oliva, M.**; Rodríguez-Pérez, C. & Gallinar, D. (eds.). *Ambientes periglaciares: avances en su estudio, valoración patrimonial y riesgos asociados*. Publicaciones de la Universidad de Oviedo, pp. 247-255.

Oliva, M. & Gómez-Ortiz, A. (2017). Climate controls on cold-climate processes during the Mid-Late Holocene environmental evolution in a Mediterranean high mountain environment (Sierra Nevada, Spain). In: Fernández, L. D. (ed.). *The Quaternary Period*. Academy Publish, pp. 237-266.

Pereira, P.; Brevik, E.; **Oliva, M.**; Estebananz, F.; Depellegrin, D.; Novara, A.; Cerdà, A. & Menshov, O. (2017). Goal oriented soil mapping: applying modern methods supported by local knowledge. In: Pereira, P.; Brevik, E.; Muñoz-Rojas, M. & Miller, B. (Eds.). *Soil mapping and process modelling for sustainable land use management*. Elsevier, pp. 61-83.

2016

Salvador-Franch, F.; **Oliva, M.**; Salvà-Catarineu, M. & Gómez-Ortiz, A. (2016). Thermal regime of the soil. In: Zamora, R., Pérez-Luque, A.J., Bonet, F.J., Barea-Azcón, J.M. & Aspizua, R. (eds.). *Global Change Impacts in Sierra Nevada: Challenges for Conservation*. Consejería de Medio Ambiente y Ordenación del Territorio. Junta de Andalucía, pp. 41-42.

Gómez-Ortiz, A.; Salvador-Franch, F.; **Oliva, M.** & Salvà-Catarineu, M. (2016). Degradation of relict glacial ice and permafrost in Sierra Nevada. In: Zamora, R., Pérez-Luque, A.J., Bonet, F.J., Barea-Azcón, J.M. & Aspizua, R. (eds.). *Global Change Impacts in Sierra Nevada: Challenges for Conservation*. Consejería de Medio Ambiente y Ordenación del Territorio. Junta de Andalucía, pp. 39-40.

Ruiz-Fernández, J. & **Oliva, M.** (2016). La vegetación de la Península de Punta Elefante (Isla Livingston, archipiélago de las Shetland del Sur, Antártida Marítima). In: Gómez Zotano, J., Arias García, J., Olmedo Cobo, J.A., Serrano Montes, J.L. (eds.). *Avances en Biogeografía. Areas de distribución: entre puentes y barreras*. Universidad de Granada, Editorial Universidad de Granada, pp. 382-390.

Ruiz-Fernández, J.; **Oliva, M.**; Fernández, A.; Gallinar, D. & García-Hernández, C. (2016). La organización altitudinal de las formas kársticas en el Macizo Occidental de los Picos de Europa. In: Durán, J.J.; Montes, M.; Robador, A. & Salazar, A. (eds.). *Comprendiendo el relieve: del pasado al futuro*. Publicaciones del Instituto Geológico y Minero de España, Geología y Geofísica, 5, pp. 677-686.

Oliva, M.; Gómez-Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, M.; Palacios, D.; Tanarro, L. & Ramos, M. (2016). Suelo helado y permafrost en las altas cumbres de Sierra Nevada. In: Durán, J.J.; Montes, M.; Robador, A. & Salazar, A. (eds.). *Comprendiendo el relieve: del pasado al futuro*. Publicaciones del Instituto Geológico y Minero de España, Geología y Geofísica, 5, pp. 739-744.

Oliva, M.; Hrbáček, F.; Ruiz-Fernández, J.; De Pablo, M.A.; Vieira, G. & Ramos, M. (2016). Dinámica de la capa activa en tres cuencas lacustres de relieve diferenciado (Península Byers, Antártida). In: Durán, J.J.; Montes, M.; Robador, A. & Salazar, A. (eds.). *Comprendiendo el relieve: del pasado al futuro*. Publicaciones del Instituto Geológico y Minero de España, Geología y Geofísica, 5, pp. 745-750.

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. In: Durán, J.J.; Montes, M.; Robador, A. & Salazar, A. (eds.). *Comprendiendo el relieve: del pasado al futuro*. Publicaciones del Instituto Geológico y Minero de España, Geología y Geofísica, 5, pp. 729-738.

2015

Salvador-Franch, F.; **Oliva, M.**; Salvà-Catarineu, M. & Gómez-Ortiz, A. (2015). Régimen térmico del suelo. In: Zamora, R., Pérez-Luque, A.J., Bonet, F.J., Barea-Azcón, J.M. & Aspizua, R. (eds.). *La huella del Cambio Global en Sierra Nevada: Retos para la conservación*. Consejería de Medio Ambiente y Ordenación del Territorio. Junta de Andalucía, pp. 39-40.

Gómez-Ortiz, A.; Salvador-Franch, F.; **Oliva, M.** & Salvà-Catarineu, M. (2015). Degradación de hielos glaciares relictos y permafrost en Sierra Nevada. In: Zamora, R., Pérez-Luque, A.J., Bonet, F.J., Barea-Azcón, J.M. & Aspizua, R. (eds.). *La huella del Cambio Global en Sierra Nevada: Retos para la conservación*. Consejería de Medio Ambiente y Ordenación del Territorio. Junta de Andalucía, pp. 37-38.

Oliva, M. & Ruiz-Fernández, J. (2015). Degradación del permafrost durante el Holoceno superior en un sistema paraglaciar (Punta Elefante, Antártida). In: Galve, J.P., Azañón, J.M., Pérez-Peña, J.V. & Ruano, P. (eds.). *Una visión global del Cuaternario El hombre como condicionante de procesos geológicos*. Asociación Española para el Estudio del Cuaternario. Granada (Spain), pp. 141-144.

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. (2015). La periglaciación de la Península Ibérica. In: Galve, J.P., Azañón, J.M., Pérez-Peña, J.V. & Ruano, P. (eds.). *Una visión global del Cuaternario El hombre como condicionante de procesos geológicos*. Asociación Española para el Estudio del Cuaternario. Granada (Spain), pp. 131-135.

Gómez-Ortiz, A.; **Oliva, M.**; Salvador-Franch, F.; Plana-Castellví, J.A.; Sánchez Gómez, S. & Espinar Moreno, M. (2015). Ambientes periglaciares en Sierra Nevada durante la Pequeña Edad del Hielo. Interés científico de la información de los libros de época (siglos XVII-XIX). In: Galve, J.P., Azañón, J.M., Pérez-Peña, J.V. & Ruano, P. (eds.). *Una visión global del Cuaternario El hombre como condicionante de procesos geológicos*. Asociación Española para el Estudio del Cuaternario. Granada (Spain), pp. 136-140.

Ruiz-Fernández, J.; **Oliva, M.**; García-Hernández, C. & Gallinar, D. (2015). Los glaciares pleistocenos de la Sierra de Cabezu Llerosos (Picos de Europa, NW de España). In: Galve, J.P., Azañón, J.M., Pérez-Peña, J.V. & Ruano, P. (eds.). *Una visión global del Cuaternario El hombre como condicionante de procesos geológicos*. Asociación Española para el Estudio del Cuaternario. Granada (Spain), pp. 122-126.

Martín-Díaz, J.; Nofre, J.; **Oliva, M.** & Palma, P. (2015). Geomorphological risks, suburbanisation and neoliberalisation of the urban space in post-war Sarajevo. *Proceedings of the International Scientific Conference Geobalkanica*, Skopje (Macedonia), pp. 371-378.

Oliva, M.; Gómez-Ortiz, A.; Palacios, D.; Salvador-Franch, F. & Salvà-Catarineu, M. (2015). El Cuaternario en el macizo de Sierra Nevada. Estado de la cuestión. In: Gómez-Ortiz, A.; Salvador-Franch, F.; Oliva, M. & Salvà-Catarineu, M. (eds.). *Avances, métodos y técnicas en el estudio del periglaciario*. Publicacions i Edicions de la Universitat de Barcelona, Barcelona, pp. 65-77.

Oliva, M.; Gómez-Ortiz, A.; Vidal, J.; Salvador-Franch, F. & Salvà-Catarineu, M. (2015). 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). In: Gómez-Ortiz, A.; Salvador-Franch, F.; Oliva, M. & Salvà-Catarineu, M. (eds.). *Avances,*

métodos y técnicas en el estudio del periglacialismo. Publicacions i Edicions de la Universitat de Barcelona, Barcelona, pp. 323-331.

Antoniades, D.; **Oliva, M.**; Giralt, S.; Agrela, J.; Granados, I.; Pla-Rabes, S.; Toro, M. & Vieira, G. (2015). Deglaciación holocena de la Península Barton (Isla King George, Antártida Marítima). In: Gómez-Ortiz, A.; Salvador-Franch, F.; Oliva, M. & Salvà-Catarineu, M. (eds.). *Avances, métodos y técnicas en el estudio del periglacialismo*. Publicacions i Edicions de la Universitat de Barcelona, Barcelona, pp. 47-54.

Gómez-Ortiz, A.; Sanjosé, J.J.; Salvador-Franch, F.; Palacios, D.; Salvà-Catarineu, M.; **Oliva, M.**; Tanarro, L. & Atkinson, A. (2015). El proceso de degradación de hielos glaciares relictos y *permafrost* en Sierra Nevada. El caso del glaciar rocoso del Corral del Veleta (Sierra Nevada, SE Península Ibérica). In: Gómez-Ortiz, A.; Salvador-Franch, F.; Oliva, M. & Salvà-Catarineu, M. (eds.). *Avances, métodos y técnicas en el estudio del periglacialismo*. Publicacions i Edicions de la Universitat de Barcelona, Barcelona, pp. 149-160.

Ruiz-Fernández, J.; **Oliva, M.**; Poblete, M.A.; García, C. & Galdes, M. (2015). Evolución ambiental del Macizo Occidental de los Picos de Europa desde la Última Glaciación. In: Gómez-Ortiz, A.; Salvador-Franch, F.; Oliva, M. & Salvà-Catarineu, M. (eds.). *Avances, métodos y técnicas en el estudio del periglacialismo*. Publicacions i Edicions de la Universitat de Barcelona, Barcelona, pp. 79-90.

2014

Gómez-Ortiz, A.; Plana, J.A. & **Oliva, M.** (2014). El conocimiento geográfico de la Pequeña Edad del Hielo en Sierra Nevada: de la descripción ilustrada del siglo XVIII a los datos recientes de registros naturales. Libro jubilar en Homenaje al profesor Gil Olcina. Universidad de Alicante, pp. 45-64.

Gómez-Ortiz, A.; Salvador-Franch, F.; **Oliva, M.**; Salvà-Catarineu, M. & Plana, J.A. (2014). Procesos periglaciares en Sierra Nevada (España). Degradación de hielo glaciar relicto en el Corral del Veleta (3.150 m). In: Vieira, A. & Julião, R.P. (eds.). *A Jangada de Pedra. Geografias Ibero-Afro-Americanas*. Associação Portuguesa de Geógrafos, Universidade do Minho. pp. 2085-2089.

Oliva, M. & Ruiz-Fernández, J. (2014). Procesos geomorfológicos en Punta Elefante (Isla Livingston, Antártida). In: Schnabel, S.; Gómez-Gutiérrez, A. (eds.). *Avances de la Geomorfología en España 2012-2014*. Universidad de Extremadura, Cáceres, pp. 527-530.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S. & Vieira, G. (2014). La deglaciación holocena de la península Byers (isla Livingston, Antártida Marítima) a partir de la datación de sedimentos lacustres. In: Schnabel, S.; Gómez-Gutiérrez, A. (eds.). *Avances de la Geomorfología en España 2012-2014*. Universidad de Extremadura, Cáceres, pp. 523-526.

Gómez-Ortiz, A.; Salvador-Franch, F.; **Oliva, M.**; Salvà-Catarineu, M.; Palacios, D.; Tanarro, L. & Schulte, L. (2014). Sobre la inexistencia de permafrost en las cumbres de Sierra Nevada. In: Schnabel, S.; Gómez-Gutiérrez, A. (eds.). *Avances de la Geomorfología en España 2012-2014*. Universidad de Extremadura, Cáceres, pp. 511-514.

Gómez-Ortiz, A.; Salvador-Franch, F.; **Oliva, M.**; Salvà-Catarineu, M.; Palacios, D. & Tanarro, L.M. (2014). Comportamiento térmico del sustrato rocoso en el sector de cumbres de Sierra Nevada (2002-2013). In: Fernández-Montes, S. & Rodrigo, F.S. (Eds.). *Cambio Climático y Cambio Global. Publicaciones de la Asociación Española de Climatología (AEC)*, serie A (9), pp. 739-748.

2013

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. In: Baena, R.; Fernández, J.J. & Guerrero, I. (eds.). *El Cuaternario Ibérico: investigación en el s. XXI*. Asociación Española para el Estudio del Cuaternario, Sevilla, pp. 196-200.

Oliva, M.; Antoniades, D.; Giralt, S.; Agrela, J.; Granados, I.; Pla-Rabes, S.; Toro, M. & Vieira, G. (2013). The deglaciation process in Barton Peninsula (King George Island, South Shetland, Antarctica). In: Baena, R.; Fernández, J.J. & Guerrero, I. (eds.). *El Cuaternario Ibérico: investigación en el s. XXI*. Asociación Española para el Estudio del Cuaternario, Sevilla, pp. 214-216.

Ruiz-Fernández, J.; **Oliva, M.**; García, C.; Galdes, M. & Fernández-Irigoyen, J. (2013). El proceso de deglaciación en los Picos de Europa a partir de evidencias geomorfológicas y sedimentológicas. In: Baena, R.; Fernández, J.J. & Guerrero, I. (eds.). *El Cuaternario Ibérico: investigación en el s. XXI*. Asociación Española para el Estudio del Cuaternario, Sevilla, pp. 209-213.

Oliva, M. & Gómez-Ortiz, A. (2013). Multi-proxy reconstruction of past environmental changes and climate conditions over the last millennium in Southern Iberia (Sierra Nevada, Spain). In: *Holocene: Perspectives, Environmental Dynamics and Impact Events*. Nova Science Publishers, pp. 111-128.

2012

Gómez-Ortiz, A.; Salvador-Franch, F.; Sanjosé, J.J.; Palacios, D.; **Oliva, M.**; Salvà-Catarineu, M.; Tanarro, L.; Raso, J.; Atkinson, A.; Schulte, L.; Plana, J.; Milheiro, B. & Serrano, D. (2012). Degradación de hielo fósil y permafrost y cambio

climático en Sierra Nevada. In: L. Ramírez & B. Asensio (eds.). *Proyectos de investigación en parques nacionales: 2008-2011. Book of National Parks*. Colección Naturaleza y Parques Nacionales. Organismo Autónomo Parques Nacionales. Ministerio de Agricultura, Alimentación y Medio Ambiente. Madrid, pp. 25-43. ISBN: 978-84-8014-834-4.

Gómez, A.; **Oliva, M.**; Salvador-Franch, F.; Salvà-Catarineu, M.; Milheiro, B.; Plana, J.A.; Espinar, M., Gómez S. & Serrano, D. (2012). La geografía de Sierra Nevada en los libros de época: aportaciones del siglo XIX y el descubrimiento del glaciario. In M. Pilar Tresaco, J. Vicente y M. (eds.). *De Julio Verne a la actualidad: la palabra y la tierra. De Jules Verne à nos jours: la parole et la terre*. Pressas de la Universidad de Zaragoza. Zaragoza, pp. 423-438.

Gómez-Ortiz, A.; **Oliva, M.**; Serrano, D.; Molero Mesa, J.; Vidal, J.J.; Salvador-Franch, F.; Salvà-Catarineu, M. & Plana, J.A. (2012). Geosítios de interés geomorfológico en Sierra Nevada. Hacia una propuesta de valoración patrimonial. Respuestas de la Geografía Ibérica a la crisis actual. *XIII Coloquio Ibérico de Geografía. Unidixital-Meubook*. Santiago de Compostela, pp. 1112-1126.

Oliva, M. & Gómez-Ortiz, A. (2012). Reconstrucción multi-proxy de la variabilidad climática acontecida en Sierra Nevada durante los tres últimos milenios inferida a partir de sedimentos lacustres y documentos históricos. In: Rodríguez Puebla, C.; Ceballos A.; González, N.; Morán, E. & Hernández A. (Eds.). *Cambio Climático. Extremos e Impactos. Publicaciones de la Asociación Española de Climatología (AEC)*, serie A (8), pp. 165-176.

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. In: González Díez, A. (ed.). *Avances de la Geomorfología en España 2010-2012*. Ediciones de la Universidad de Cantabria, pp. 629-632.

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. In: González Díez, A. (ed.). *Avances de la Geomorfología en España 2010-2012*. Ediciones de la Universidad de Cantabria, pp. 657-660.

Salvador-Franch, F.; Salvà-Catarineu, M.; **Oliva, M.** & Gómez-Ortiz, A. (2012). Régimen térmico del suelo y dinámica periglaciaria en la planicie somital del Collado de los Machos (Sierra Nevada). In: González Díez, A. (ed.). *Avances de la Geomorfología en España 2010-2012*. Ediciones de la Universidad de Cantabria, pp. 637-640.

Gómez-Ortiz, A.; **Oliva, M.**; Salvador-Franch, F.; Palacios, D.; Tanarro, L.M.; Salvà-Catarineu, M.; Santos, B. & Serrano, D. (2012). Paisaje de cumbres de Sierra Nevada: el valor patrimonial de sus relieves y modelados. In: González Díez, A. (ed.). *Avances de la Geomorfología en España 2010-2012*. Ediciones de la Universidad de Cantabria, pp. 31-34.

2011

Gómez-Ortiz, A.; Salvador-Franch, F.; **Oliva, M.**; Salvà-Catarineu, M.; Santos, B.; Plana Castellví, J.A.; Espinar, M. & Sánchez Gómez, S. (2011). Los paisajes de la Pequeña Edad del Hielo en Sierra Nevada (España) y el interés científico de la documentación de época. Aportación al conocimiento de la historia de la geografía española. *Proceedings of the Regional Conference of the International Geographical Union. Santiago de Chile. Instituto Geográfico Militar*.

Gómez-Ortiz, A.; Palacios, D.; Salvador-Franch, F.; Sanjosé, J.J.; **Oliva, M.**; Salvà-Catarineu, M. & Atkinson, A. (2011). Respuesta de una montaña mediterránea al Cambio Global (Sierra Nevada, España). El proceso degradativo de masas heladas glaciares relictas y permafrost. *Proceedings of the Regional Conference of the International Geographical Union. Santiago de Chile. Instituto Geográfico Militar*.

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. In: Turú V. & Constante, A. (eds.): *El Cuaternario en España y Áreas afines*. Asociación Española para el Estudio del Cuaternario, pp. 183-186.

Gómez-Ortiz, A.; Salvador-Franch, F.; **Oliva, M.** & Salvà-Catarineu, M. (2011). Morfología glaciaria y periglaciaria de la Cerdanya (Pirineo Oriental): los sectores de Arànsér-La Llosa y la Feixa-La Màniga. In: Turú V. & Constante, A. (eds.): *El Cuaternario en España y Áreas afines*. Asociación Española para el Estudio del Cuaternario, pp. 1-6.

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. In: Valcárcel, M. & Carrera Gómez, P. (eds.). *Criosferas, suelos congelados y cambio climático*. Universidad de Santiago de Compostela, pp. 59-65.

Pina, P.; Vieira, G.; Barata, M.T.; Christiansen, H.H.; Saraiva, J.; Bandeira, L.; Lira, C.; Jorge, M.; Mora, C.; Ferreira, A.; **Oliva, M.**; Trindade, A.; Poelking, E.; Machado, A.; Neves, M. & Lousada, M. (2011). Mapping polygonal networks in the Arctic to compare with analogues from Mars. In: Valcárcel, M. & Carrera Gómez, P. (eds.). *Criosferas, suelos congelados y cambio climático*. Universidad de Santiago de Compostela, pp. 155-158.

Salvador-Franch, F.; **Oliva, M.**; Gómez-Ortiz, A. & Salvà-Catarineu, M. (2011). Valores térmicos del suelo en tres enclaves contrastados del sector de cumbres de Sierra Nevada (periodo 2006-2009). In: Valcárcel, M. & Carrera Gómez, P. (eds.). *Criosferas, suelos congelados y cambio climático*. Universidad de Santiago de Compostela, pp. 31-35.

Trindade, A.; **Oliva, M.**; Vieira, G. & Ramos, M. (2011). Spatial patterns of incoming summer short-wave radiation in Livingston and Deception Islands (Antarctica) and consequences for permafrost distribution. In: Valcárcel, M. & Carrera Gómez, P. (eds.). *Criosferas, suelos congelados y cambio climático*. Universidad de Santiago de Compostela, pp. 137-139.

Trindade, A. & **Oliva, M.** (2011). Permafrost Young Researchers Network (PYRN): organization and activities in the context of permafrost research. In: Valcárcel, M. & Carrera Gómez, P. (eds.). *Criosferas, suelos congelados y cambio climático*. Universidad de Santiago de Compostela, pp. 167-168.

Vieira, G.; Mora, C.; Neves, M.; **Oliva, M.**; Batista, V.; Ferreira, A.; Jorge, M.; Trindade, A.; Correia, A.; Maillol, J.M.; Amaral, P.; Santos, F.; Bernardo, I.; Soares, A.; Ramos, M.; de Pablo, M.A.; Bockheim, J.; Caselli, A.; Goyanes, G.; Scafeffer, C.; Simas, F.; Pimpirev, C. & Kenderova, R. (2011). Permafrost and Climate Change in the Maritime Antarctic (PERMANTAR-2). In: Valcárcel, M. & Carrera Gómez, P. (eds.). *Criosferas, suelos congelados y cambio climático*. Universidad de Santiago de Compostela, pp. 141-143.

2010 and before

Oliva, M. & Nofre, J. (2010). Intensificación de la aridez en la alta montaña semiárida del sur peninsular desde el Holoceno Medio. In: Fernández, F.; Galán, E. & Cañada, R. (eds.): *Clima, ciudad y ecosistemas, Publicaciones de la Asociación Española de Climatología, Serie A (7)*: 420-429.

Pereira, P. & **Oliva, M.** (2010). Comparative analysis of some interpolation methods. Application to the autumn and winter extreme precipitation in Sierra Nevada. In: Fernández, F.; Galán, E. & Cañada, R. (eds.): *Clima, ciudad y ecosistemas, Publicaciones de la Asociación Española de Climatología, Serie A (7)*: 237-248.

Gómez-Ortiz, A. & **Oliva, M.** (2010). Evidencias morfológicas de la Pequeña Edad del Hielo en las cumbres de Sierra Nevada: la aportación de los libros de época (siglos XVII-XIX). In: Úbeda, X., Vericat, D. & Batalla, R. (eds.). *Avances de Geomorfología en España 2008-2010*, pp. 435-438.

Oliva, M. & Gómez-Ortiz, A. (2010). Reconstrucción paleoambiental de Sierra Nevada a partir de registros sedimentarios y documentación histórica. In: Úbeda, X., Vericat, D. & Batalla, R. (eds.). *Avances de Geomorfología en España 2008-2010*, pp. 401-404.

Oliva, M. & Gómez-Ortiz, A. (2010). Monitorización dinámica y control térmico en geformas solifluídicas inactivas del piso crionival de Sierra Nevada. In: Blanco, J.J.; De Pablo, M.A. & Ramos, M. (eds.). *Ambientes periglaciares, permafrost y variabilidad climática*. Publicaciones de la Universidad de Alcalá. Alcalá de Henares (Spain), pp. 29-33.

Oliva, M. & Gómez-Ortiz, A. (2010). Inestabilidad de laderas durante el Holoceno en el piso periglacial actual de Sierra Nevada. In: Blanco, J.J.; De Pablo, M.A. & Ramos, M. (eds.). *Ambientes periglaciares, permafrost y variabilidad climática*. Publicaciones de la Universidad de Alcalá. Alcalá de Henares (Spain), pp. 35-38.

Oliva, M. & Gómez-Ortiz, A. (2010). Efectividad de los procesos periglaciares en Sierra Nevada durante el Holoceno. *Actas do VI Seminario Latino-Americano de Geografía Física, II Seminario Ibero-Americano de Geografía Física*. Vol. 3: 1-10.

Gómez-Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, M.; Santos, B. & **Oliva, M.** (2010). Paisajes de interés científico y cultural en el Parque Nacional de Sierra Nevada (España). *Actas do VI Seminario Latino-Americano de Geografía Física, II Seminario Ibero-Americano de Geografía Física*. Vol. 5: 1-13.

Gómez-Ortiz, A.; **Oliva, M.** & Salvador-Franch, F. (2009). Registros naturales y documentación histórica relativos a la Pequeña Edad del Hielo en las cumbres de Sierra Nevada. In: Gómez Zotano, J. & Ortega Alba, F. (eds.): *El sector central de las Béticas: una aproximación desde la geografía física*. Editorial de la Universidad de Granada-AGE. Granada, pp. 245-259.

Oliva, M. (2008). Lóbulos de soliflucción y fluctuaciones paleoclimáticas durante el Holoceno en Sierra Nevada. In: Sigró, J.; Brunet, M. & Aguilar, E. (eds.): *Cambio Climático Regional y sus Impactos, Publicaciones de la Asociación Española de Climatología, Serie A (6)*: 189-198.

Oliva, M. & Moreno, I. (2008). Sierra Nevada, nexo entre dos patrones de teleconexión: la NAO y la WeMO. In: Sigró, J.; Brunet, M. & Aguilar, E. (eds.): *Cambio Climático Regional y sus Impactos, Publicaciones de la Asociación Española de Climatología, Serie A (6)*: 199-208.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2008). Solifluction lobes in Sierra Nevada (Southern Spain): morphometry, process monitoring and palaeoenvironmental changes. *Proceedings of the Ninth International Conference on Permafrost (NICOP)*. Vol. 2: 1321-1326.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2008). Actividad solifluidal en Sierra Nevada durante el Holoceno tardío. In: Benavente, J. & Gracia, F.J. (eds.). *Trabajos de Geomorfología en España 2006-2008*, pp. 249-252.

Oliva, M.; Gómez-Ortiz, A. & Schulte, L. (2008). Procesos solifluídicos actuales en Sierra Nevada. In: Benavente, J. & Gracia, F.J. (eds.). *Trabajos de Geomorfología en España 2006-2008*, pp. 253-256.

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). In: Cuadrat, J.M.; Saz, M.; Vicente, S.; Lanjeri, S.; De Luis, M. & González-Hidalgo, J.C. (eds.): *Clima, Sociedad y Medio Ambiente. Publicaciones de la Asociación Española de Climatología, Serie A (5)*: 241-250.

6.7 DISSEMINATION ARTICLES, INTERNAL DOCUMENTS, REPORTS, VIDEOS

Oliva, M. (2020). L'Antàrtida, testimoni del passat del planeta. Nota de premsa UB, 15-6-2019.

- Oliva, M.** (2019). Campaña antártica 2018-2019. TVE, La tarde en 24h, 5-2-2019.
<http://www.rtve.es/alacarta/videos/la-tarde-en-24-horas/tarde-24-horas-barra-ciencia-05-02-19/4969676/>
- Oliva, M.** (2018). Aumento de temperatura del permafrost. Nota de prensa UB, 17-1-2019.
<https://www.elperiodico.com/es/sociedad/20190117/una-investigacion-muestra-aumento-temperatura-del-permafrost-a-escala-mundial-7252055>
<https://www.lavanguardia.com/vida/20190117/454183777081/una-investigacion-muestra-aumento-temperatura-del-permafrost-a-escala-mundial.html>
- Oliva, M.** (2018). Una gran erupción volcánica sacudió la isla Decepción hace 3.980 años. Nota de prensa UB, 23-11-2018.
https://www.ub.edu/web/ub/es/menu_eines/noticies/2018/11/035.html?
- Oliva, M.** (2018). La UB lidera un estudio que hace la reconstrucción más precisa del clima de la Península Ibérica de los últimos setecientos años. Nota de prensa UB, 16-1-2018.
https://www.ub.edu/web/ub/es/menu_eines/noticies/2018/01/008.html
- Oliva, M.** (2017). Marc Oliva, investigador do CEG, vence prémio científico CGD-ULisboa 2017.
<http://www.igot.ulisboa.pt/marc-oliva-colaborador-do-ceg-vence-premio-cientifico-cgd-ulisboa-2017/>
- Oliva, M.** (2016). Los suelos helados en las cumbres de Sierra Nevada (España). *Geocrític*.
<http://www.geocritiq.com/2016/04/los-suelos-helados-en-las-cumbres-de-sierra-nevada-espana/2015>
- Oliva, M.** (2015). Marc Oliva – Livingston Island. FrostByte presentation. Program Where does your Goose take you? Association of Polar Early Career Scientists and Canada Goose@.
<http://www.apecs.is/outreach/blogs/where-your-geese-takes-you.html>
- Oliva, M.** (2015). Descubriendo la Antártida pasada. El impacto de las variaciones climáticas en los ecosistemas terrestres. *Geocrític*.
<http://www.geocritiq.com/2015/10/descubriendo-la-antartida-pasada-el-impacto-de-las-variaciones-climaticas-en-los-ecosistemas-terrestres/>
- Oliva, M.**; Nieuwendam, A. & Högström, E. (2015). The Future of Permafrost in a Climate Changing World Young Researchers Workshop. FrostByte presentation. Association of Polar Early Career Researchers.
- Oliva, M.** (2015). Report of the third field work campaign of the HOLOANTAR project in Byers Peninsula (Livingston Island) and Fildes Peninsula (King George Island). Internal report of the HOLOANTAR project, February, 2015.
- Oliva, M.** (2014). Holocene deglaciation of Byers Peninsula (Livingston Island, Maritime Antarctica) inferred from lake records. FrostByte presentation. Climate and Cryosphere.
http://www.climate-cryosphere.org/media-gallery/1018-frostbyte-m-oliva-2014?category_id=138
- Oliva, M.** (2014). Report of the second field work campaign of the HOLOANTAR project in Byers Peninsula and Elephant Point (Livingston Island, Maritime Antarctic). Internal report of the HOLOANTAR project, February, 2014.
- Oliva, M.** (2013). Què està passant (realment) amb el clima a l'Antàrtida? *Penell. Journal of Meteorology, Climatology and Environment*, 35: 10-14.
- Oliva, M.** (2013). Report of the first field work campaign of the HOLOANTAR project in Byers Peninsula (Livingston Island, Maritime Antarctic). Internal report of the HOLOANTAR project, January, 2013.

6.8 SCIENTIFIC OUTREACH

- Oliva, M.** (2018). Photographic exhibition *Explorant el fred*. AXA Research Fund. Rectorate of the University of Barcelona, Barcelona, 3-21st December 2018.
- Oliva, M.** (2018). Photographic exhibition *Antactica in Iberia*. AXA Research Fund. Faculty of Geography and History, University of Barcelona, Barcelona, October-November 2018.
- Oliva, M.** (2016). Research activities Marc Oliva. AXA Research Fund campaign. Charles de Gaulle, Orly and Beauvais airports, Paris (France), September-December 2016.
- Oliva, M.** (2014). A massive slump, Potter Peninsula, Maritime Antarctica. Imatgeo – The official blog of the European Geosciences Union, 1st September 2014.
<http://geolog.egu.eu/2014/09/01/imaggeo-on-mondays-a-massive-slump/>
- Oliva, M.** (2014). Scientist Spotlight Marc Oliva. Mountain Meridian, 8 (2013-2014). Mountain Research Initiative, pp. 28-29 and 34-35.
- Oliva, M.** (2013). Reconstructing past climate of Antarctica. AXA Research Fund, Paris (France),
<http://www.youtube.com/watch?v=2zkR4JGz6KY>.
- Oliva, M.** (2012). Marc Oliva: walking through the past. G-SOIL, Blog of the Soil System Sciences Division of the European Geosciences Union.
<http://gsoil.wordpress.com/2012/07/03/marc-oliva-walking-through-the-past/>

6.9 PUBLICATIONS FROM CONFERENCES (PROCEEDINGS, ABSTRACTS)

2020

Fernández-Fernández, J.M.; **Oliva, M.**; Palacios, D.; García-Oteyza, J.; Navarro, F.; Schimmelpfennig, I.; Léannid, L. & ASTER Team (*submitted*). Constraining the chronology of ice thinning and glacier dynamics in the Hurd Peninsula (Livingston Island, South Shetland Islands, Antarctic Peninsula) following the Last Glacial Maximum. *12th Portuguese Conference on Polar Sciences*.

Libouban, E.; Etourneau, J.; Hugué, A.; Giralt, S.; **Oliva, M.**; Sabourdy, M. & Caley, T. (2020). Mid-to-Late Holocene climate variability in the Northern Antarctic Peninsula. *9th SCAR Open Science Conference*. Hobart (Australia), 31 July - 11 August 2020.

Oliva, M.; Gómez-Ortiz, A.; Salvador-Franch, F.; Palacios, D.; Tanarro, L.M.; Sanjosé-Blasco, J.J., Ramos, M.; Hauck, C.; McDonald, R.; Galindo-Zaldívar, J.; González-Castillo, L. & Sanz de Galdeano, C. (2020). Monitoring permafrost and periglacial processes in Sierra Nevada (Spain) from 2001 to 2016. *12th International Conference on Permafrost (ICOP 2020)*. Lanzhou (China), 22-26th June 2020.

Oliva, M.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; González-Díaz, B. & ASTER Team (2020). Determining the age of ice-free permafrost environments in the South Shetland Islands. *12th International Conference on Permafrost (ICOP 2020)*. Lanzhou (China), 22-26th June 2020.

Vieira, G.; Mora, C.; Goyanes, G.; Farzamian, M.; Pina, P.; Ramos, M.; de Pablo, M.A.; **Oliva, M.**; Prates, G.; Baptista, J.; Correia, A.; Vonder Muhll, D. & Neto, C. (2020). PERMANTAR: Permafrost Observatories in Western Antarctic Peninsula. *12th International Conference on Permafrost (ICOP 2020)*. Lanzhou (China), 22-26th June 2020.

Hrbáček, F.; **Oliva, M.**; Ruiz Fernández, J.; Kňázková, M. & de Pablo, M.A. (2020). Permafrost temperature modelling in bordering (dis)continuous permafrost environments in Livingston Island, Antarctic Peninsula. *12th International Conference on Permafrost (ICOP 2020)*. Lanzhou (China), 22-26th June 2020.

Oliva, M.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; González-Díaz, B. & ASTER Team (2020). Massive deglaciation in the South Shetland Islands (Antarctica) during Termination-1. *Association of American Geographers (AAG) Annual Meeting 2020*. Denver (Washington, USA), 6-10 April, 2020.

2019

Oliva, M.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; González-Díaz, B. & ASTER Team (2019). Constraining the age of ice-free permafrost environments in the South Shetland Islands. *Southern Hemisphere Conference on Permafrost (SouthCOP)*. Queenstown (New Zealand), pp. 79.

Oliva, M.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; González-Díaz, B. & ASTER Team (2019). The onset of the last deglaciation in the South Shetland Islands. *Abstracts of the 20th Congress of the International Union for Quaternary Research (INQUA)*, O-3147.

Ruiz-Fernández, J. & **Oliva, M.** (2019). Late Holocene environmental dynamics in Zackenberg area (NE Greenland) through the study of earth hummocks. *Abstracts of the 20th Congress of the International Union for Quaternary Research (INQUA)*, P-3886.

Oliva, M.; Ruiz-Fernández, J.; 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). Quaternary glacial activity in Iberian mountain ranges. *Abstracts of the 20th Congress of the International Union for Quaternary Research (INQUA)*, P-1486.

Correia, A.; **Oliva, M.** & Ruiz-Fernández, J. (2019). Electrical resistivity imaging to study permafrost distribution in a marine terrace sequence in Byers Peninsula, Livingston Island, Maritime Antarctica. *XIII International Symposium on Antarctic Earth Sciences (ISAES 2019)*. Incheon (Republic of Korea), 22-26th July 2019.

Oliva, M.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; González-Díaz, B. & ASTER Team (2019). The deglaciation process of ice-free environments in the South Shetland Islands. *XIII International Symposium on Antarctic Earth Sciences (ISAES 2019)*. Incheon (Republic of Korea), 22-26th July 2019.

Fernandes, M.; **Oliva, M.**; Vieira, G. (2019). Distribuição geográfica e morfometria dos glaciares rochosos e proglaciares lobes no alto vale do rio Garona, Pireneus Centrais. *Abstracts of the VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), pp. 26.

Malermo, L.; **Oliva, M.**; López-Moreno, J.I. (2019). Distribución espacio-temporal de penitentes en Andes. *Abstracts of the VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), pp. 43.

Oliva, M.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; González-Díaz, B. & ASTER Team (2019). Nunataks as keys to understanding the deglaciation process of ice-free environments in Antarctica. *Abstracts of the VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), pp. 3

Ruiz-Fernández, J.; **Oliva, M.**; Palacios, D.; Fernández-Fernández, J.M.; González-Díaz, B. Schimmelpfennig, I.; & ASTER Team (2019). Spatio-temporal deglaciation pattern in Byers Peninsula (Livingston Island, Maritime Antarctica) since the Last Glacial Maximum. *Abstracts of the VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), pp. 32.

Oliva, M.; Antoniades, D.; Giralt, G.; Palacios, D.; Ruiz-Fernández, J. & Pla-Rabes, S. (2019). First field season of the PALEOGREEN project: glacial oscillations and climate variability in NE Greenland. *Abstracts of the VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), pp. 46.

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 in the Antarctic Peninsula region since the Last Glacial Maximum. *Abstracts of the VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), pp. 6.

Ruiz-Fernández, J. & **Oliva, M.** (2019). Morphometric analysis and Late Holocene development of earth hummocks in Zackenberg area (NE Greenland). *Abstracts of the VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), pp. 25.

Palacios, D.; Ruiz-Fernández, J.; **Oliva, M.**; Andrés, N.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; González-Díaz, B. & ASTER Team (2019). Evidence of the Neoglaciation in Byers Peninsula (Livingston Island, Antarctic Peninsula). *Abstracts of the VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), pp. 31.

Tanarro, L.M.; Palacios, D.; Gómez-Ortiz, A.; Sanjosé, J.J.; Salvador-Franch, F.; **Oliva, M.** (2019). Techniques of 3D photo-reconstruction applied to the monitoring of geomorphic processes in the Corral del Veleta (Sierra Nevada). *Abstracts of the VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), pp. 89.

2018

Oliva, M. & Ruiz-Fernández, J. (2018). Late Quaternary environmental dynamics in the Lenin Peak (Pamir Mountains, Kyrgyzstan). Abstracts volume of the *XVI Coloquio ibérico de Geografía*. Lisboa (Portugal), p. 440.

Oliva, M. & Ruiz-Fernández, J. (2018). Geomorphological processes in the Lenin Peak (Pamir range, Kyrgyzstan). European Conference for Applied Meteorology and Climatology 2018. Budapest (Hungary), EMS2018-479.

Ruiz-Fernández, J.; García-Hernández, C.; **Oliva, M.**; Pérez-Alberti, A. & González-Díaz, B. (2018). Formas y procesos geomorfológicos en el área de Punta Barnard (Isla Livingston, Antártida Marítima). Abstracts volume of the IX Symposium on Polar Studies. Spanish Committee SCAR, CSIC, IGME. Madrid, p. 123.

García-Hernández, C.; Ruiz-Fernández, J.; **Oliva, M.** & Pérez-Alberti, A. (2018). Soil formation in three penguin colonies of Deception Island (Maritime Antarctica). Abstracts volume of the IX Symposium on Polar Studies. Spanish Committee SCAR, CSIC, IGME. Madrid, p. 54.

Oliva, M.; Antoniades, D.; Fernández-Fernández, J.M.; García-Hernández, C.; Giralt, S.; González-Díaz, B.; Granados, I.; Palacios, D.; Pérez-Alberti, A.; Pla-Rabes, S.; Sanjurjo, J.; Schimmelpfennig, I.; Toro, M.; Vieira, G. & Ruiz-Fernández, J. (2018). Glacial oscillations in the South Shetland Islands since the Last Glacial Maximum. Abstracts volume of the IX Symposium on Polar Studies. Spanish Committee SCAR, CSIC, IGME. Madrid, p. 93.

Pérez-Alberti, A.; García-Hernández, C.; **Oliva, M.** & Ruiz-Fernández, J. (2018). Rocky coast processes in the South Shetland Islands (Maritime Antarctica). Abstracts volume of the IX Symposium on Polar Studies. Spanish Committee SCAR, CSIC, IGME. Madrid, p. 103.

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. & Yıldırım, C. (2018). Permafrost conditions in the Mediterranean region since the Last Glaciation. In: Philip Deline, P.; Bodin, X. & Ravanel, L. (eds.). *Book of abstracts of the 5th European Conference on Permafrost*. Laboratoire EDYTEM, CNRS, Université Savoie Mont-Blanc, pp. 662-663.

Tanarro, L.M.; Gómez-Ortiz, A.; Salvador-Franch, F.; Sanjosé, J.J.; **Oliva, M.**; Palacios, D. & Ramos, M. (2018). Twenty years monitoring the degradation of buried ice and permafrost at the Veleta cirque (Sierra Nevada, Spain). In: Philip Deline, P.; Bodin, X. & Ravanel, L. (eds.). *Book of abstracts of the 5th European Conference on Permafrost*. Laboratoire EDYTEM, CNRS, Université Savoie Mont-Blanc, pp. 470.

Lopes, L.; **Oliva, M.**; Fernandes, M.; Pereira, P.; Palma, P. & Ruiz-Fernández, J. (2018). Morphometry and spatial distribution of glacial cirques in the Central Pyrenees (Aran and Boí valleys). In: Philip Deline, P.; Bodin, X. & Ravanel, L. (eds.). *Book of abstracts of the 5th European Conference on Permafrost*. Laboratoire EDYTEM, CNRS, Université Savoie Mont-Blanc, pp. 652-653.

Ruiz-Fernández, J.; **Oliva, M.**; Cannone, N.; García-Hernández, C.; Guglielmin, M.; Hrbáček, F.; Nývlt, D.; Roman, M.; Fernández, S. & López-Martínez, J. (2018). Paraglacial dynamics in the Antarctic Peninsula region since the Last Glacial Maximum. In: Philip Deline, P.; Bodin, X. & Ravanel, L. (eds.). *Book of abstracts of the 5th European Conference on Permafrost*. Laboratoire EDYTEM, CNRS, Université Savoie Mont-Blanc, pp. 670.

García-Hernández, C.; Ruiz-Fernández, J.; **Oliva, M.** & Pérez-Alberti, A. (2018). Relative age dating of rock glacier surfaces in False Bay (Livingston Island, Maritime Antarctica) using the Schmidt Hammer. *Book of abstracts of the 5th European Conference on Permafrost*. Laboratoire EDYTEM, CNRS, Université Savoie Mont-Blanc, pp. 641-642.

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. In: Philip Deline, P.; Bodin, X. & Ravanel, L. (eds.). *Book of abstracts of the 5th European Conference on Permafrost*. Laboratoire EDYTEM, CNRS, Université Savoie Mont-Blanc, pp. 635.

Oliva, M.; Antoniades, 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. *Abstract Proceedings of POLAR2018: Where the Poles come together*, pp. 1660.

Ruiz-Fernández, J.; **Oliva, M.**; Cannone, N.; García-Hernández, C.; Guglielmin, M.; Hrbáček, F.; Nývlt, D.; Roman, M.; Fernández, S. & López-Martínez, J. (2018). The paraglacial response in the ice-free terrains of the Antarctic Peninsula. *Abstract Proceedings of POLAR2018: Where the Poles come together*, pp. 1589.

Giralt, S.; Antoniades, D.; Granados, I.; Liu, E.; Pla-Rabes, S.; Toro, M. & **Oliva, M.** (2018). Subdecadal Holocene climate reconstruction of Byers Peninsula (Antarctica). *Abstract Proceedings of POLAR2018: Where the Poles come together*, pp. 2021.

Hong Kum Lee; Seok Cheol Kim; Chang Uk Hyun; Hyun-Ju No; **Oliva, M.**; Ji Hee Kim; Kyu Song Lee; Hyun-Cheol Kim; Ok-Sun Kim; Sang Hee Kim; Hyoungseok Lee; Soon Gyu Hong (2018). Long-term Ecological Research on King George Island, Antarctica. *Abstract Proceedings of POLAR2018: Where the Poles come together*, pp. 2391.

2017

Vieira, G.; Ramos, M.; Goyanes, G.; de Pablo, M.A.; Schaefer, C.; Correia, A.; Bockheim, J.; Ferreira, A.; Mora, C.; Nieuwendam, A.; **Oliva, M.**; Pina, P.; Prates, G.; Ferreira, J. & Kenderova, R. (2017). The PERMANTAR network of permafrost observatories in the Western Antarctic Peninsula 10 years after the IPY. *IX Conferência Portuguesa das Ciências Polares*. Covilhã (Portugal), pp. 33.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Palacios, D.; Pla-Rabes, S.; Ruiz-Fernández, J.; Sanjurjo, J.; Toro, M. & Vieira, G. (2017). The deglaciation of ice-free environments in the Antarctic Peninsula region. *1st International ANTPAS Workshop on Antarctic permafrost*. Varese (Italy), pp. 15.

Ruiz-Fernández, J. & **Oliva, M.** (2017). Paraglacial response since the Last Glacial Maximum in the Antarctic Peninsula region. *1st International ANTPAS Workshop on Antarctic permafrost*. Varese (Italy), pp. 12.

Vieira, G.; Ramos, M.; Goyanes, G.; de Pablo, M.A.; Schaefer, C.; Correia, A.; Bockheim, J.; Ferreira, A.; Mora, C.; Nieuwendam, A.; **Oliva, M.**; Pina, P.; Prates, G.; Ferreira, J. & Kenderova, R. (2017). The PERMANTAR network of permafrost observatories in the Western Antarctic Peninsula, 10 years after the IPY 2007-08. *1st International ANTPAS Workshop on Antarctic permafrost*. Varese (Italy), pp. 25.

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. *Mediterranean Palynology Symposium 2017*, pp. 169.

Fernandes, M.; **Oliva, M.**; Lopes, L. & Ruiz-Fernández, J. (2017). Fases glaciárias e distribuição dos processos crionivais atuais no alto vale do rio Garona (Pireneus Centrais). In: Ruiz-Fernández, J.; García-Hernández, C.; **Oliva, M.**; Rodríguez-Pérez, C. & Gallinar, D. (eds.). *Ambientes periglaciares: avances en su estudio, valoración patrimonial y riesgos asociados*. Publicaciones de la Universidad de Oviedo, pp. 88-89.

Lopes, L.; Fernandes, M.; **Oliva, M.**; Pereira, P. & Ruiz-Fernández, J. (submitted). Análise morfométrica de circos glaciares nos Pirineus Centrais (vales de Boí e Aran). In: Ruiz-Fernández, J.; García-Hernández, C.; **Oliva, M.**; Rodríguez-Pérez, C. & Gallinar, D. (eds.). *Ambientes periglaciares: avances en su estudio, valoración patrimonial y riesgos asociados*. Publicaciones de la Universidad de Oviedo, pp. 148.

Oliva, M.; Zebre, M.; Guglielmin, M.; Çiner, A.; Vieira, G.; Andrés, N.; Bodin, X.; Colucci, R.; Gómez-Ortiz, A.; Hughes, P.; Palacios, D.; Pérez-Alberti, A.; Ruiz-Fernández, J.; Sarikaya, M.A.; Serrano, E.; Urdea, P.; Valcárcel, M. & Yildirim, C. (2017). Permafrost evolution in the Mediterranean basin since the Last Glaciation. In: Ruiz-Fernández, J.; García-Hernández, C.; **Oliva, M.**; Rodríguez-Pérez, C. & Gallinar, D. (eds.). *Ambientes periglaciares: avances en su estudio, valoración patrimonial y riesgos asociados*. Publicaciones de la Universidad de Oviedo, pp. 149-150.

Ruiz-Fernández, J.; **Oliva, M.**; Fernández-Fernández, J.M.; Fernández, S.C.; García-Hernández, C.; Menéndez, R.A.; Palacios, D.; Pellitero-Ondicol, R.; Pérez-Alberti, A. & Schimmelpfennig, I. (2017). Evolución glaciar desde el Último Máximo Glaciar en las islas King George y Livingston (Antártida) a partir de dataciones cosmogénicas y reconstrucción de superficies glaciares – Proyecto CRONOANTAR. In: Ruiz-Fernández, J.; García-Hernández, C.; **Oliva, M.**; Rodríguez-Pérez, C. & Gallinar, D. (eds.). *Ambientes periglaciares: avances en su estudio, valoración patrimonial y riesgos asociados*. Publicaciones de la Universidad de Oviedo, pp. 151.

Oliva, M.; Serrano, E.; Ruiz-Fernández, J.; Gómez-Ortiz, A. & Palacios, D. (2017). Paraglacial dynamics in Little Ice Age glaciated environments in the Iberian Peninsula. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2017. Vienna (Austria), 23-28th April, 2017, Vol. 19, EGU2017-6757.

Fernandes, M.; **Oliva, M.**; Lopes, L.; Ruiz-Fernández, J.; Palma, P. & Pereira, P. (2017). Spatial distribution and morphometry of permafrost-related landforms in the Central Pyrenees. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2017. Vienna (Austria), 23-28th April, 2017, Vol. 19, EGU2017-14255.

Ruiz-Fernández, J.; **Oliva, M.**; Fernández-Menéndez, S.; García-Hernández, C.; Menéndez-Duarte, R.A.; Pellitero-Ondicol, R.; Pérez-Alberti, A. & Schimmelpfennig, I. (2017). Glacial evolution in King George and Livingston Islands (Antarctica) since the Last Glacial Maximum based on cosmogenic nuclide dating and glacier surface reconstruction -

CRONOANTAR project. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2017. Vienna (Austria), 23-28th April, 2017, Vol. 19, EGU2017-4818.

Navas, A.; **Oliva, M.**; Ruiz-Fernández, J.; Gaspar, L.; Quijano, L. & Lizaga, I. (2017). Lateral and vertical distribution of soil organic carbon in recently deglaciated areas of Elephant Point (Livingston Island, Maritime Antarctica). *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2017. Vienna (Austria), 23-28th April, 2017, Vol. 19, EGU2017-18916.

Ruiz-Fernández, J.; Nieuwendam, A.; **Oliva, M.**; Lopes, V.; Cruces, A.; Freitas, C.; Janeiro, A.; & López-Sáez, J.A. & García-Hernández, C. (2017). Fire history and climate variability during the Mid-Late Holocene in the Picos de Europa (Cantabrian Mountains, NW Spain), based on sedimentary sequence of Belbín. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2017. Vienna (Austria), 23-28th April, 2017, Vol. 19, EGU2017-6887.

Cerdà, A.; Pereira, P.; Borja, M.; Keesstra, S.; Úbeda, Martínez Murillo, J.F.; Muñoz Rojas, M.; **Oliva, M.** & Novara, A. (2017). Perception as a key component in the development of fire affected land in Eastern Spain. El Massís del Caroig study case. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2017. Vienna (Austria), 23-28th April, 2017, Vol. 19, EGU2017-4121.

Cerdà, A.; Keesstra, S.; Pulido, M.; Jordán, A.; Novara, A.; Giménez-Morera, A.; Borja, M.; Martínez-Murillo, J.F.; Rodrigo-Comino, J.; Pereira, P.; Nadal-Romero, E.; Taguas, T.; Úbeda, X.; Brevik, E.C.; Tarolli, P.; Bagarello, V.; Parras Alcántara, L.; Muñoz-Rojas, M.; **Oliva, M.** & di Prima, S. (2017). Soil erosion and degradation in Mediterranean Type Ecosystems. The Soil Erosion and Degradation Research Group (SEDER) approach and findings. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2017. Vienna (Austria), 23-28th April, 2017, Vol. 19, EGU2017-3799.

Pereira, P.; Depellegrin, D.; Egarter-Vigl, L.; **Oliva, M.**; Misiune, I.; Keesstra, S.; Estebanz, F. & Cerdà, A. (2017). Mapping Cultural Ecosystem Services in Vilnius using Hot-Spot Analysis. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2017. Vienna (Austria), 23-28th April, 2017, Vol. 19, EGU2017-10895.

Pereira, P.; Brevik, E.; **Oliva, M.**; Estebanz, F.; Depellegrin, D.; Novara, A.; Cerdà, A. & Menshov, O. (2017). Goal oriented soil mapping: applying modern methods supported by local knowledge: A review. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2017. Vienna (Austria), 23-28th April, 2017, Vol. 19, EGU2017-3290.

Hrbáček, F.; **Oliva, M.** & Nývt, D. (2017). Effect of recent regional cooling on active layer thickness in the Antarctic Peninsula region. *Students in polar and alpine research Conference 2017*. Masaryk University, Brno (Czech Republic), pp. 22.

2016

Vieira, G.; Ramos, M.; de Pablo, M.A.; Goyanes, G.; **Oliva, M.**; Schaefer, C.; Ferreira, A.; Abramov, A.; Correia, A.; Nieuwendam, A. & Mora, C. (2016). Recent evolution of permafrost and active layer temperatures in the South Shetlands. *VIII Conferência Portuguesa das Ciências Polares*. Lisboa (Portugal), pp. 15.

Oliva, M.; Navarro, F.J.; Hrbáček, F.; Hernández, A.; Nývt, D.; Pereira, P.; Ruiz-Fernández, J. & Trigo, R. (2016). Cooling trend in the Antarctic Peninsula during the 21st century and cryospheric responses. *VIII Conferência Portuguesa das Ciências Polares*. Lisboa (Portugal), pp. 39.

Oliva, M.; Ruiz-Fernández; Zarankin A.; Casanova-Katny, M.A. & Nofre, J. (2016). Proposal for environmental protection of the ice-free area of Elephant Point (Antarctica). *VIII Conferência Portuguesa das Ciências Polares*. Lisboa (Portugal), pp. 40.

Oliva, M.; Navarro, F.J.; Hrbáček, F.; Hernández, A.; Nývt, D.; Pereira, P.; Ruiz-Fernández, J. & Trigo, R. (2016). Impacts on the cryosphere of the recent cooling recorded in the Antarctic Peninsula region. *TOPCART2016*. Toledo (Spain), pp. 97.

Ruiz-Fernández, J.; **Oliva, M.**; Cruces, A.; Lopes, V.; Freitas, M.C.; Andrade, C.; López-Sáez, J.A.; García-Hernández, C.; Gallinar, D.; & Geraldés, M. (2016). Environmental changes in a high Atlantic mountain area (Western Massif of the Picos de Europa, NW Iberia) since the Last Glaciation. *Proceedings of the 1st International Conference on Research for Sustainable Development in Mountain Regions*, pp. 120.

Fernandes, M.; Lopes, L.; **Oliva, M.** & Ruiz-Fernández, J. (2016). Late Pleistocene glacial phases in the upper Garonne valley. *Proceedings of the 1st International Conference on Research for Sustainable Development in Mountain Regions*, pp. 205.

Lopes, L.; Fernandes, M.; **Oliva, M.** & Ruiz-Fernández, J. (2016). Morphometry of glacial cirques in the Central Pyrenees (Boí and Aran valleys). *Proceedings of the 1st International Conference on Research for Sustainable Development in Mountain Regions*, pp. 206.

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 periglaciality of the Iberian Peninsula. *Proceedings of the 1st International Conference on Research for Sustainable Development in Mountain Regions*, pp. 123.

Correia, A.; **Oliva, M.** & Ruiz-Fernandez, J. (2016). Study of frozen ground conditions in Byers Peninsula of Livingston Island (Maritime Antarctica) based on electrical and geomorphological data. *35th International Geological Congress 2016*. Cape Town (South Africa), 27th August-4th September, abstract 4899.

Oliva, M.; Antoniadou, D.; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S.; Sanjurjo, J.; Vieira, G. & Hong, S.G. (2016). The deglaciation of the ice-free areas in the South Shetland Islands. Examples from Byers (Livingston) and Barton (King George). *2016 SCAR Open Science Conference*. Kuala Lumpur (New Zealand), 22-26th August 2016. PP. 968.

Mora, C.; Vieira, G.; Jiménez, J.J.; Pina, P.; Ramos, M.; de Pablo, M.A.; Bandeira, L.; **Oliva, M.**; Schaefer, C.; Branco, J.; Ferreira, A.; Girão, I.; Nieuwendam, A. & David, A. (2016). Mapping snow patch distribution in the South Shetlands using remote sensing techniques. *2016 SCAR Open Science Conference*. Kuala Lumpur (Malaysia), 22-26th August 2016, pp. 126.

Vieira, G.; Ramos, M.; de Pablo, M.A.; Goyanes, G.; **Oliva, M.**; Schaefer, C.; Ferreira, A.; Abramov, A.; Correia, A.; Nieuwendam, A. & Mora, C. (2016). Evolution of permafrost and active layer temperatures in the South Shetlands since 2000. *2016 SCAR Open Science Conference*. Kuala Lumpur (Malaysia), 22-26th August 2016, pp. 469.

Vieira, G.; Ramos, M.; Angel de Pablo, M.A.; Goyanes, G.; **Oliva, M.**; Schaefer, C.; Ferreira, A.; Abramov, A.; Correia, A.; Nieuwendam, A. & Mora, C. (2016). Thermal state of permafrost and recent active layer dynamics in the South Shetlands, Antarctica. Book of abstracts of the XI International Conference on Permafrost. Potsdam (Germany), pp. 486.

Morgenstern, A.; Fritz, M.; Deshpande, B.; Bouchard, F.; Höglström, E.; Malenfant-Lepage, J.; Nieuwendam, A.; **Oliva, M.**; Paquette, M.; Rudy, A.; Siewert, M.; Sjöberg, Y. & Weege, S. (2016). The future of permafrost research: a contribution from early career researchers to ICARP III and beyond. Book of abstracts of the XI International Conference on Permafrost. Potsdam (Germany), pp. 1237.

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. & Antoniadou, D. (2016). The periglaciation of the Iberian Peninsula. Book of abstracts of the XI International Conference on Permafrost. Potsdam (Germany), pp. 78.

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). Book of abstracts of the XI International Conference on Permafrost. Potsdam (Germany), pp. 466.

Correia A.; **Oliva M.** & Ruiz-Fernández J. (2016). Distribution of frozen ground conditions in Byers Peninsula (Antarctica) based on electrical resistivity data. Book of abstracts of the XI International Conference on Permafrost. Potsdam (Germany), pp. 113.

Hrbáček, F.; Láška, K.; Nývlt, D.; Engel, Z. & **Oliva, M.** (2016). Active layer thickness variability on James Ross Island, eastern Antarctic Peninsula. Book of abstracts of the XI International Conference on Permafrost. Potsdam (Germany), pp. 125.

Hrbáček, F.; **Oliva, M.**; Ramos, M.; Láška, K.; Ruiz-Fernandez, J.; de Pablo, M.A.; Vieira, G. & Nývlt, D. (2016). Active layer thickness variability in two different climatic settings of the Eastern and Western Antarctic Peninsula. Book of abstracts of the XI International Conference on Permafrost. Potsdam (Germany), pp. 127.

Nieuwendam, A.; Ruiz-Fernández, J.; **Oliva, M.**; Lopes, V.; Cruces, A. & Freitas, M.C. (2016). Multi-proxy reconstruction of environmental changes and cryogenic processes in the Picos de Europa (Cantabrian Mountains, Northern Spain) since the Last Glaciation. Book of abstracts of the XI International Conference on Permafrost. Potsdam (Germany), pp. 333.

Fernandes, M.; Lopes, L. & **Oliva, M.** (2016). Topographical conditions and geomorphological distribution of rock glaciers and proglacial lobes in Aran valley (Central Pyrenees). Book of abstracts of the XI International Conference on Permafrost. Potsdam (Germany), pp. 29.

Lopes, L.; Fernandes, M. & **Oliva, M.** (2016). Spatial distribution and morphometry of permafrost-related landforms in Boí valley (Central Pyrenees). Book of abstracts of the XI International Conference on Permafrost. Potsdam (Germany), pp. 59.

Oliva, M.; Gómez-Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, M.; Palacios, D.; Tanarro, L. & Ramos, M. (2016). Seasonal frost conditions and permafrost regime distribution in the high lands of Sierra Nevada (Spain). *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2016. Vienna (Austria), 17-22th April, 2016, Vol. 18, EGU2016-9088.

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). *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2016. Vienna (Austria), 17-22th April, 2016, Vol. 18, EGU2016-17830.

Correia, A.; Ruiz-Fernandez, J.; **Oliva, M.**; Fernández, A.; García-Hernández, C. & Gallinar, D. (2016). Postglacial sedimentary infill of the Brialmont peatland (Cantabrian Mountains, Spain). *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2016. Vienna (Austria), 17-22th April, 2016, Vol. 18, EGU2016-17945.

Hrbáček, F.; **Oliva, M.**; Láška, K.; Ruiz-Fernandez, J.; de Pablo, M.A.; Vieira, G.; Ramos, M. & Nývlt, D. (2016). Soil thermal regime on ice-free areas in Livingston Island and James Ross Island, Antarctic Peninsula region. *Geophysical*

Research Abstracts. European Geosciences Union, General Assembly 2016. Vienna (Austria), 17-22th April, 2016, Vol. 18, EGU2016-8525.

Salvador-Franch, F.; Salvà-Catarineu, M.; **Oliva, M.** & Gómez-Ortiz, A. (2016). Seasonal frost conditions in different periglacial landforms in the Eastern Pyrenees from 2003 to 2015. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2016. Vienna (Austria), 17-22th April, 2016, Vol. 18, EGU2016-14997.

Pereira, P.; **Oliva, M.** & Cerdà, A. (2016). Fire impacts on European Boreal soils: A review. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2016. Vienna (Austria), 17-22th April, 2016, Vol. 18, EGU2016-15644.

Ruiz-Fernández, J.; Nieuwendam, A.; **Oliva, M.**; Lopes, V.; Cruces, A. Janeiro, A.; Freitas, C. & López-Sáez, J.A (2016). Mid-Late Holocene climate change and fire events in a High Atlantic mountain area in NW Iberia (Picos de Europa). *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2016. Vienna (Austria), 17-22th April, 2016, Vol. 18, EGU2016-17129.

2015

Correia Guedes, M.; Cantuária, G.; **Oliva, M.**; Biersma, E. & Marques, B. (2015). A sustainable modular building for research development in the Antartic. *VII Conferência Portuguesa das Ciências Polares*. Évora (Portugal), pp. 27.

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), pp. 40.

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.; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S; Toro, M.; Sanjurjo, J. & Liu, E.J. (2015). The deglaciation of the Byers peninsula based on a multiple dating-method approach in lake sediments of Byers Peninsula (South Shetland Islands, Antarctica). *Proceedings of the 19th Congress of the International Union for Quaternary Research (INQUA)*. Nagoya (Japan), T00691.

Oliva, M. & Ruiz-Fernández (2015). Late Holocene permafrost degradation in Elephant Point (Livingston Island, Antarctica). *Proceedings of the 19th Congress of the International Union for Quaternary Research (INQUA)*. Nagoya (Japan), T00693.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S; Toro, M.; Sanjurjo, J., Liu, E.J. & Vieira, G. (2015). Holocene environmental changes in Byers Peninsula (South Shetland Islands, Antarctica) based on a multiple dating-method approach to lake sediments. *Proceedings of the XII International Symposium on Antarctic Earth Science*. Goa (India), pp. 441.

Oliva, M. & Ruiz Fernández, J. (2015). Permafrost degradation in a recently deglaciated environment in (Elephant Point, Livingston, Antarctica). *Proceedings of the XII International Symposium on Antarctic Earth Science*. Goa (India), pp. 217.

Correia, A.; **Oliva, M.** & Ruiz Fernández, J. (2015). Permafrost distribution in marine terraces in Byers Peninsula (Livingston Island, Maritime Antarctica) using electrical resistivity and geomorphological data. *Proceedings of the XII International Symposium on Antarctic Earth Science*. Goa (India), pp. 219.

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. (2015). The periglaciation of the Iberian Peninsula. *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), pp. 32.

Oliva, M. & Ruiz Fernández, J. (2015). Paraglacial processes and permafrost degradation in Elephant Point (Livingston Island, Antarctica). *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), pp. 12.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S; Toro, M.; Sanjurjo, J., Liu, E.J. & Vieira, G. (2015). Holocene deglaciation of Byers Peninsula (South Shetland Islands, Antarctica) using a combined dating-method approach to lake sediments. *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), pp. 11.

de Andrés, N.; Palacios, D.; Gómez-Ortiz, A.; García-Ruiz, J.M.; López-Moreno, J.I.; Salvador-Franch, F.; **Oliva, M.** (2015). Origen, cronología y evolución de los glaciares rocosos fósiles de las cordilleras ibéricas (Pirineos, Sistema Central y Sierra Nevada). *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), pp. 35.

Fernandes, M; França, P.; **Oliva, M.** & Vieira, G. (2015). Cartografia das áreas livres de gelo da península Byers (ilha Livingston, Antártida) através de imagens WorldView-2: metodologia e resultados exploratórios. *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), pp. 25.

Fernandes, M; Lopes, L. & **Oliva, M.** (2015). Cartografia e distribuição dos glaciares rochosos no Val d'Aran (Pirenéus Centrais). *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), pp. 37.

Lopes, L. & Fernandes, M. & **Oliva, M.** (2015). Análise espacial da localização dos glaciares rochosos na Val de Boi (Pireneus Centrais). *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), pp. 42.

Salvador-Franch, F.; Salvà-Catarineu, **Oliva, M.** & Gómez-Ortiz, A. (2015). Régimen térmico del suelo en un transecto altitudinal de alta montaña mediterránea con topografía contrastada (macizo del Puigpedrós, Pirineo oriental). *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), pp. 41.

Ruiz-Fernández, J. & **Oliva, M.** (2015). Cartografía geomorfológica de detalle y morfodinámica periglacial en cuencas lacustres de la Península Byers (Isla Livingston, Antártida Marítima). *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), pp. 27.

Vieira, G.; Pina, P.; Canário, J.; Bandeira, L.; Mora, C.; Branco, J.; Neves, M.; **Oliva, M.**; Prates, G.; Fonseca, I.; Martin, J.; Nieuwendam, A.; Ferreira, A. & David, A. (2015). 3D Antartida - Mapping and monitoring the ice-free areas of the Antarctic Peninsula region: from crowdfunding to data acquisition. *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), pp. 26.

Vieira, G.; Ramos, M.; Branco, J.; Goyanes, G.; Catalão, J.; Correia, A.; Bockheim, J.; Schaefer, C.; Baltakova, A.; Caselli, A.; David, A.; Ferreira, A.; Francelino, M.; Girão, I.; Hodson, A.; Kenderova, R.; Mora, C.; Neves, M.; Nieuwendam, A.; Nowak, A.; **Oliva, M.**; De Pablo, M.A.; Pimpirev, C.; Prates, G.; Reis, A.R.; Santos, C. & Simas, F. (2015). Permafrost and climate change in the Antarctic Peninsula. Recent advances from PERMANTAR-3. *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), pp. 10.

Sjöberg, Y.; Bouchard, F.; Cassidy, A.; Desphande, B.; Fritz, M.; Högström, E.; Lepage, J.; Morgenstern, A.; Nieuwendam, A.; **Oliva, M.**; Paquette, M.; Rudy, A.; Siewert, M. & Weege, S. (2015). The Future of Permafrost Research; Contributions of Early Career Researchers from the European Conference on Permafrost to ICARPIII. *Proceedings of the Arctic Science Summit Week*. Toyama (Japan), p. 283.

Oliva, M. & Ruiz-Fernández (2015). The impacts of permafrost degradation in paraglacial environments in Elephant Point (Livingston Island, Antarctica). European Geosciences Union, General Assembly 2015. Vienna (Austria), 12-17th April, 2015, Vol. 17, EGU2015-978.

Oliva, M.; Ruiz-Fernández, J. & Vieira, G. (2015). Active layer dynamics in three sites with contrasted topography in the Byers Peninsula (Livingston Island, Antarctica). *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2015. Vienna (Austria), 12-17th April, 2015, Vol. 17, EGU2015-12057.

Pereira, P.; **Oliva, M.** & Ruiz-Fernández, J. (2015). Soil water repellency of Antarctic soils (Elephant Point). First results. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2015. Vienna (Austria), 12-17th April, 2015, Vol. 17, EGU2015- 15831.

González-Guzman, A.; Otero, X.L.; **Oliva, M.**; Ruiz-Fernández, J. & Pérez-Alberti, A. (2015). Biogeochemistry differences along lineal transect from glacier to Elephant Point coast in Antarctic environment. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2015. Vienna (Austria), 12-17th April, 2015, Vol. 17, EGU2015-15161.

Correia, A.; **Oliva, M.** & Ruiz-Fernández, J. (2015). Permafrost distribution in marine terraces and glacier margins in the Byers Peninsula (Livingston Island, Antarctica). *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2015. Vienna (Austria), 12-17th April, 2015, Vol. 17, EGU2015-12369.

Ruiz-Fernández, J.; **Oliva, M.**; Cruces, A.; Lopes, V.; Freitas, C.; García-García, C.; Nieuwendam, A.; López-Sáez, J.A.; Gallinar, D. & Gerales, M. (2015). Geomorphological and sedimentological evidences in the Western Massif of Picos de Europa since the Last Glaciation. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2015. Vienna (Austria), 12-17th April, 2015, Vol. 17, EGU2015-11383.

Nieuwendam, A.; Ruiz-Fernández, J.; **Oliva, M.**; Lopes, V.; Cruces, A. & Freitas, C. (2015). Environmental evolution in Picos de Europa (Cantabrian Mountains, Northern Spain) since the last glacial cycle. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2015. Vienna (Austria), 12-17th April, 2015, Vol. 17, EGU2015-11523.

Ruiz-Fernández, J.; Vieira, G.; **Oliva, M.**; Gallinar, D. & García-García, C.; (2015). Monitoring of soil temperatures in an Atlantic high mountain environment: The Forcadona buried ice patch (Picos de Europa, NW Spain). *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2015. Vienna (Austria), 12-17th April, 2015, Vol. 17, EGU2015-13163.

Salvador-Franch, F.; Salvà-Catarineu, M.; **Oliva, M.** & Gómez-Ortiz, A. (2015). Ground thermal conditions along a vertical transect with contrasted topography in a high mountain Mediterranean environment (Puigpedrós massif, eastern Pyrenees), from 2003 to 2014. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2015. Vienna (Austria), 12-17th April, 2015, Vol. 17, EGU2015-11791.

Oliva, M.; Serrano, E.; Gómez-Ortiz, A.; González Amuchastegui, M.J.; Nieuwendam, A.; Palacios, D.; Pérez-Alberti, A.; Ruiz Fernández, J. & Vieira, G. (2015). The periglaciation of the Iberian Peninsula. In: Díaz del Olmo, F. & Faust, D. *Quaternary archives in the Iberian Peninsula and Western Mediterranean*. CEIMAR, Sevilla (Spain), p. 43.

2014

Paquette, M.; Bouchard, F.; Cassidy, A.; Desphande, B.; Fritz, M.; Högröm, E.; Lepage, J.; Morgenstern, A.; Nieuwendam, A.; **Oliva, M.**; Rudy, A.C.A.; Siewert, M.; Sjöberg, Y. & Weege, S. (2014). The Future of Permafrost Research; Contributions of Early Career Researchers from the European Conference on Permafrost to ICARPIII, *Artic Change 2014*, December 8-12, Ottawa, Ontario, Canada.

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. *VI Conferência Portuguesa das Ciências Polares*. Porto (Portugal), pp. 27.

Oliva, M. & Ruiz-Fernández (2014). Present-day paraglacial processes in Elephant Point (Livingston Island, Antarctica). *VI Conferência Portuguesa das Ciências Polares*. Porto (Portugal), pp. 42.

Vieira, G.; Pina, P.; Canário, J.; Bandeira, L.; Mora, C.; Neves, M.; **Oliva, M.**; Prates, G.; Fonseca, I.; Martin, J.; Nieuwendam, A. & Ferreira, A. (2014). 3D Antartida - Mapping and monitoring the ice-free areas of the Antarctic Peninsula region: from crowdfunding to data acquisition. *VI Conferência Portuguesa das Ciências Polares*. Porto (Portugal), pp. 38.

Oliva, M. & Ruiz-Fernández, J. (2014). Paraglacial processes in a recently deglaciated Antarctic environment (Elephant Point, Livingston Island). *The Future of Glaciers*. Torino (Italy), pp. 29.

Oliva, M. & Ruiz-Fernández, J. (2014). Geoecological dynamics in an ice-free area in the Maritime Antarctica: a study case from Elephant Point (Livingston Island, South Shetland). *Ecology of Glacier Forelands*. Obergurgl (Austria), pp. 29.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S. & Vieira, G. (2014). The deglaciation of the Byers Peninsula (Livingston Island, Maritime Antarctica) reconstructed from lake sediment records. *2014 SCAR Open Science Conference*. Auckland (New Zealand), pp. 673.

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), pp. 256.

Vieira, G.; Pina, P.; Canário, J.; Bandeira, L.; Mora, C.; Neves, M.; **Oliva, M.**; Prates, G.; Fonseca, I.; Martin, J.; Nieuwendam, A.; Ferreira, A.; Batista, V.; Lousada, M. & Branco, J. (2014). 3D Antartida - Mapping and monitoring the ice-free areas of the Antarctic Peninsula region: from crowdfunding to data acquisition. *2014 SCAR Open Science Conference*. Auckland (New Zealand), pp. 927.

Ruiz-Fernández, J. & **Oliva, M.** (2014). Geo-ecological units in Elephant Point Peninsula (Livingston Island, Maritime Antarctica). *2014 SCAR Open Science Conference*. Auckland (New Zealand), pp. 571.

Morgenstern, A.; Abbott, B.W.; Belova, N.; Ekici, A.; Frolov, D.; Lepage, J.; Ma, Y.; Fritz, M.; **Oliva, M.**; Schneider, A.; Stanilovskaya, J. & Nieuwendam, A. (2014). The Permafrost Young Researchers Network (PYRN): Integrating priorities for permafrost research over the next generation. In: *Vieira, G., Pina, P., Mora, C., Correia, A. (Eds). Book of abstracts of the 4th European Conference on Permafrost*, pp. 203.

Nicholson, E.; **Oliva, M.**; Giralt, S.; Antoniades, D.; Granados, I.; Toro, M. & Pla-Rabes, S. (2014). Tephra stratigraphy of lake sediments from Byers Peninsula, Antarctica: insights from volcanology. In: *Vieira, G., Pina, P., Mora, C., Correia, A. (Eds). Book of abstracts of the 4th European Conference on Permafrost*, pp. 203.

Antoniades, D.; **Oliva, M.**; Giralt, S.; Granados, I.; Toro, M. & Pla-Rabes, S. (2014). Holocene environmental evolution of Barton peninsula (King George Island, Antarctica) based on lacustrine records. In: *Vieira, G., Pina, P., Mora, C., Correia, A. (Eds). Book of abstracts of the 4th European Conference on Permafrost*, pp. 218.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S. & Vieira, G. (2014). Deglaciation process in Byers Peninsula (Livingston Island, Maritime Antarctica) based on lake records. In: *Vieira, G., Pina, P., Mora, C., Correia, A. (Eds). Book of abstracts of the 4th European Conference on Permafrost*, pp. 202.

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*, pp.167.

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). *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2014. Vienna (Austria), 27th April - 2nd May, 2014, Vol. 16, EGU2014-288.

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. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2014. Vienna (Austria), 27th April - 2nd May, 2014, Vol. 16, EGU2014-291.

Pereira, P.; Cerda, A.; **Oliva, M.**; Úbeda, X.; Mataix-Solera, J. & Jordan, A. (2014). Wet dry cycles effect on ash water repellency. A laboratory experiment. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2014. Vienna (Austria), 27th April - 2nd May, 2014, Vol. 16, EGU2014-961.

Ruiz Fernández, J.; **Oliva, M.**; García, C.; López-Sáez, J.A. & Gerales, M. (2014). Deglaciation and post-glacial environmental evolution in the Western Massif of Picos de Europa. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2014. Vienna (Austria), 27th April - 2nd May, 2014, Vol. 16, EGU2014-13847.

Gómez-Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, M.; **Oliva, M.**; Palacios, D.; Tanarro, L. & Schulte, L. (2014). Inexistence of permafrost at the top of Veleta peak (Sierra Nevada, Spain). *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2014. Vienna (Austria), 27th April - 2nd May, 2014, Vol. 16, EGU2014-6690.

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), pp. 37.

2013

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S.; Toro, M. & Vieira, G.; (2013). Preliminary results on the Holocene deglaciation of Byers Peninsula (Livingston Island, Antarctica) inferred from lake records. *V Conferência Portuguesa das Ciências Polares*. Livro de Resumos. Faro (Portugal), pp. 28.

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. *V Conferência Portuguesa das Ciências Polares*. Livro de Resumos. Faro (Portugal), pp. 51.

Salvador-Franch, F.; **Oliva, M.**; Salvà-Catarineu, M. & Gómez-Ortiz, A. (2013). Ground temperature regime and periglacial dynamics in three different sites from the summit area in Sierra Nevada (southern Spain) from 2006 to 2012. *Proceedings of the 8th International Conference on Geomorphology*. International Association of Geomorphologists. Paris (France), pp. 1040.

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. *Proceedings of the 8th International Conference on Geomorphology*. International Association of Geomorphologists. Paris (France), pp. 343.

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), pp. 301.

Oliva, M.; Antoniades, 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). Evolución ambiental holocena de la Península Byers. Proyecto HOLOANTAR, primera campaña de campo. *Proceedings of the IV Iberian Conference of the International Permafrost Association*, pp. 24.

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), from 25-27th June, pp. 51.

Salvador-Franch, F.; Salvà-Catarineu, M.; **Oliva, M.** & Gómez-Ortiz, A. (2013). Régimen térmico en un transecto altitudinal de alta montaña mediterránea (macizo del Puigpedrós, Pirineo oriental). Periodo 1995-1996 y 2003-2012. *IV Iberian Conference of the International Permafrost Association*. Vall de Núria (Catalonia), from 25-27th June, pp. 45.

Ruiz-Fernández, J.; **Oliva, M.**; Poblete, M.A.; García, C. & Galdes, M. (2013). Evolución ambiental del Macizo Occidental de los Picos de Europa desde la Última Glaciación. *IV Iberian Conference of the International Permafrost Association*. Vall de Núria (Catalonia), from 25-27th June, pp. 20.

Gómez-Ortiz, A.; Sanjosé, J.J.; Salvador-Franch, F.; Palacios, D.; Salvà-Catarineu, M.; **Oliva, M.**; Tanarro, L. & Atkinson, A. (2013). El proceso de degradación de hielos glaciares relictos y *permafrost* en Sierra Nevada. El caso del glaciar rocoso del Corral del Veleta (Sierra Nevada, SE Península Ibérica). *IV Iberian Conference of the International Permafrost Association*. Vall de Núria (Catalonia), from 25-27th June, pp. 29.

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), from 25-27th June, pp. 17.

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), from 25-27th June, pp. 18.

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. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2013. Vienna (Austria), 7-12th April, 2013, Vol. 15, EGU2013-1102.

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. & Serrano, E. (2013). The HOLOANTAR project: Holocene environmental change in the Maritime Antarctic. Interactions between permafrost and the lacustrine environment. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2013. Vienna (Austria), 7-12th April, 2013, Vol. 15, EGU2013-10707.

Salvador-Franch, F.; **Oliva, M.**; Salvà, M. & Gómez-Ortiz, A. (2013). Ground temperature regime and periglacial dynamics in three different sites from the summit area in Sierra Nevada (southern Spain) from 2006 to 2012. *Geophysical*

Research Abstracts. European Geosciences Union, General Assembly 2013. Vienna (Austria), 7-12th April, 2013, Vol. 15, EGU2013-9481.

Ruiz-Fernández, J.; **Oliva, M.** & García, C. (2013). The deglaciation in Picos de Europa (area of Enol Glacier) based on geomorphological and sedimentological studies. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2013. Vienna (Austria), 7-12th April, 2013, Vol. 15, EGU2013-12477.

Geraldes, M.; Freitas, C.; Cruces, A.; Andrade, C.; **Oliva, M.**; Néto, C. & Carvalho, M. (2013). Pedological constraints controlling the occurrence of mire plant bioindicators from north Atlantic formerly frozen soils to present-day Mediterranean sandy wet habitats. *Geophysical Research Abstracts*. European Geosciences Union, General Assembly 2013. Vienna (Austria), 7-12th April, 2013, Vol. 15, EGU2013-13273.

2012

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*. Livro de Resumos. Lisbon (Portugal), pp. 45.

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*. Livro de Resumos. Lisbon (Portugal), pp. 52.

Pina, P.; Vieira, G.; Barata, M.T.; Christiansen, H.H.; Saraiva, J.; Bandeira, L.; Lousada, M.; Mora, C.; Ferreira, A.; **Oliva, M.**; Neves, M.; Cardoso, M.; Jorge, M.; Ferreira, A.; Trindade, A. & Machado, A. (2012). Two and a half years of activities and results of project ANAPOLIS. *IV Conferência Portuguesa das Ciências Polares*. Livro de Resumos. Lisbon (Portugal), pp. 22.

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). Holocene environmental change in the Maritime Antarctic. Holocene climate variability in a maritime permafrost environment (Byers Peninsula, Livingston Island) inferred from lacustrine records: the HOLOANTAR project. *Scientific Committee on Antarctic Research Conference*. Portland (USA), pp. 30.

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. Interactions between permafrost and the lacustrine environment. Proceedings of the *Tenth International Conference on Permafrost (TICOP)*. Salekhard, Siberia (Russia), Volume 4/2, pp. 424-425.

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). Proceedings of the *Tenth International Conference on Permafrost (TICOP)*. Salekhard, Siberia (Russia), Volume 4/2, pp. 417-418.

Vieira, G.; Agrela, J.; Ferreira, A.; Mora, C.; Neves, M.; **Oliva, M.**; Trindade, A.; Ramos, M.; de Pablo, M.A.; Molina, A.; Correia, A. & Rocha, J.P. (2012). The lower boundary of permafrost in Hurd Peninsula (Livingston Island, Antarctic). Proceedings of the *Tenth International Conference on Permafrost (TICOP)*. Salekhard, Siberia (Russia), Volume 4/2, pp. 625.

2011

Oliva, M.; Trindade, A.; Vieira, G. & Ramos, M. (2011). The influence of the regional atmospheric circulation on the incoming summer short-wave radiation in Deception and Livingston Islands (Antarctica). Consequences for permafrost distribution. *VIII Simposio de Estudios Polares*. Mallorca, 7-9 September, 2011, PII-53.

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. *Proceedings of the 18th Congress of the International Union for Quaternary Research (INQUA)*. Bern (Switzerland), 20-27 July, 2011, abstract 449.

Oliva, M.; Vieira, G.; Mora, C.; Trindade, A. & Jorge, M. (2011). Preliminary results of the Holocene palaeoenvironmental evolution in the Serra da Estrela (Portugal). *Proceedings of the 18th Congress of the International Union for Quaternary Research (INQUA)*. Bern (Switzerland), 20-27 July, 2011, abstract 450.

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), 10-16 July, 2011, abstract PO8.20.

Pina, P.; Vieira, G.; Christiansen, H.H.; Barata, M.T.; Saraiva, J.; Bandeira, L.; Lira, C.; Jorge, M.; Mora, C.; Ferreira, A.; **Oliva, M.**; Trindade, A.; Poelking, E.; Machado, A.; Neves, M. & Lousada, M. (2011). First field campaign on Adventalen (Svalbard) to gather polygonal pattern features for comparison with Martian analogues. *III Conferência Portuguesa das Ciências Polares*. Livro de Resumos. Coimbra (Portugal), 12 April, 2011, pp. 13.

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), 12-16 April, 2011.

Pina, P.; Vieira, G.; Christiansen, H.H; Barata, M.T.; Saraiva, J.; Bandeira, L.; Lira, C.; Jorge, M.; Mora, C.; Ferreira, A.; **Oliva, M.**; Trindade, A.; Poelking, E.; Machado, A.; Neves, M. & Lousada, M. (2011). Characterizing polygonal terrains in-situ on Adventdalen (Svalbard) for comparison with Martian analogues: The 2010 field campaign. *42nd Lunar and Planetary Science XLII*. The Woodlands (Texas, USA), 7-11 March, 2011, abstract 1387.

Pina, P.; Vieira, G.; Mora, C.; Barata, M.T.; Christiansen, H.H; Bandeira, L.; Ferreira, A.; Jorge, M.; Lira, C.; Machado, A.; Neves, M.; Trindade, A; **Oliva, M.**; Poelking, E. & Saraiva, J. (2011). The Project ANAPOLIS: analysis of polygonal terrains on Mars based on Earth analogues. *Arctic Science Summit Week*, Seoul (South Korea), 27 March-1 April, 2011.

2010 and before

Oliva, M. (2010). Late Holocene evolution from Sierra Nevada (South Spain) from solifluction landforms, lake sediments and historical sources. *Abstract book of the Polar and Sedimentary Processes and Archives Workshop*. Loughborough (United Kingdom), 18-19 November, 2010, p. 22.

Oliva, M. & Gómez-Ortiz, A. (2010). Late Holocene reconstruction of landscape changes in Sierra Nevada from sedimentary records and documentary sources. *Proceedings of the Global Change and the World's Mountains Conference (CD-Rom)*. Perth (Scotland), 26-30 September, 2010.

Oliva, M. (2010). Long-term solifluction response to increasingly arid conditions in Sierra Nevada, Southern Spain. *Proceedings of the Third European Conference on Permafrost*. Longyearbyen (Norway), 13-17 June, 2010, pp. 33.

Oliva, M. & Gómez-Ortiz, A. (2010). Holocene solifluction processes in a Mediterranean mountain environment (Sierra Nevada, Spain). *Proceedings of the Third European Conference on Permafrost*. Longyearbyen (Norway), 13-17 June, 2010, pp. 72.

Pina, P.; Saraiva, J.; Bandeira, L.; Lira, C.; Benavente, N.; Vieira, G.; Mora, C.; Neves, M.; **Oliva, M.**; Jorge, M.; Ferreira, A. & Christiansen, H. (2010). The project ANAPOLIS: analysis of polygonal terrains on Mars based on Earth analogues. *Proceedings of the Third European Conference on Permafrost*. Longyearbyen (Norway), 13-17 June, 2010, pp. 59.

Vieira, G.; Mora, C.; Neves, M.; **Oliva, M.**; Batista, V.; Ferreira, A.; Jorge, M.; Rocha, M.J.; Trindade, A.; Correia, A.; Maillol, J.M.; Amaral, P.; Santos, F.; Bernardo, I.; Soares, A.; Ramos, M.; de Pablo, M.A.; Bockheim, J.; Caselli, A.; Goyanes, G.; Pimpirev, C. & Kenderova, R. (2010). PERMANTAR-2. A new project for monitoring permafrost in the Antarctic Peninsula Region. *Proceedings of the Third European Conference on Permafrost*. Longyearbyen (Norway), 13-17 June, 2010, pp. 141.

Pina, P., Vieira, G.; Christiansen, H.H; Barata, M.T.; Saraiva, J.; Bandeira, L.; Lira, C.; Mora, C.; Neves, M.; **Oliva, M.**; Jorge, M.; Ferreira, A. & Machado, A. (2010). ANAPOLIS - Analysis of polygonal terrains on Mars based on Earth analogues from Svalbard (78°N). *2ª Reunião Portuguesa de Ciências Polares*. Livro de Resumos, 26 April, 2010, pp. 19.

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, *Geophysical Research Abstracts*. Vienna (Austria), 2-7 May, 2010, Vol. 12, EGU2010-2561.

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, *Geophysical Research Abstracts*. Vienna (Austria), 2-7 May, 2010, Vol. 12, EGU2010-588.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2009). Inestabilidad de laderas durante el Holoceno en el piso periglacial actual de Sierra Nevada). *Proceedings of the 27th Meeting of the International Association of Sedimentologists*. Alghero (Italy), 20-23 September, 2009, pp. 296.

Schulte, L.; Peña, J. C.; Carvalho, F.; Baró, M.; Julià, R.; Burjachs, F.; Pernas, J.; **Oliva, M.** & Veit, H. (2009). Late Holocene fan delta aggradation in high mountain environments: a high resolution flood history from the Jungfrau massif, Swiss Alps. *Proceedings of the 27th Meeting of the International Association of Sedimentologists (IAS)*. Alghero (Italy), 20-23 September, 2009, pp. 345.

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, *Geophysical Research Abstracts*. Vienna (Austria), 19-24 April, 2009, Vol. 11, EGU2009-4482.

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, *Geophysical Research Abstracts*. Vienna (Austria), 19-24 April, 2009, Vol. 11, EGU2009-4497.

Schulte, L.; Peña, J.C.; Burjachs, F.; Pernas, J.; Carvalho, F.; Schmidt, T.; Baró, M.; **Oliva, M.**; Barriendos, M. & Veit, H. (2009). A 3600-year fan delta record of alpine floods: potentialities of flood hazard assessment. European Geosciences Union, General Assembly 2009, *Geophysical Research Abstracts*. Vienna (Austria), 19-24 April, 2009, Vol. 11, EGU2009-7611.

Oliva, M. & Schulte, L. (2008). Solifluction phases during the Late Holocene in Sierra Nevada (Southern Spain). *Extended abstracts of the Ninth International Conference on Permafrost (NICOP)*. Fairbanks, Alaska (United States), 27 June-2 July, 2008, pp. 233-234.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2008). Solifluction phases in Sierra Nevada during the Late Holocene. European Geosciences Union, General Assembly 2008, *Geophysical Research Abstracts*. Vienna (Austria), 13-18 April, 2008, Vol. 10, EGU2008-A-03447.

Oliva, M.; Gómez-Ortiz, A. & Schulte, L. (2008). Spatial and morphometrical approach to solifluction lobes in Sierra Nevada. European Geosciences Union, General Assembly 2008, *Geophysical Research Abstracts*. Vienna (Austria), 13-18 April, 2008, Vol. 10, EGU2008-A-03486.

Schulte, L.; Burjachs, F.; Baró, M.; Roten, L.; Julià, R.; Veit, H.; Carvalho, F. & **Oliva, M.** (2008). Fan delta evolution and environmental changes in the Bernese Alps during Late Holocene: natural and anthropogenic contributions. European Geosciences Union, General Assembly 2008, *Geophysical Research Abstracts*. Vienna (Austria), 13-18 April, 2008, Vol. 10, EGU2008-A-03522.

7.- PARTICIPATION IN CONFERENCES

7.1 ORAL COMMUNICATIONS IN CONFERENCES (1ST AUTHOR AND SPEAKER)

Oliva, M.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; González-Díaz, B. & ASTER Team (2019). Constraining the age of ice-free permafrost environments in the South Shetland Islands. *Southern Hemisphere Conference on Permafrost (SouthCOP)*. Queenstown (New Zealand), 8-12-2019.

Oliva, M.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; González-Díaz, B. & ASTER Team (2019). The onset of the last deglaciation in the South Shetland Islands. *20th Congress of the International Union for Quaternary Research (INQUA)*. Dublin (Ireland), 29-7-2019.

Oliva, M.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; González-Díaz, B. & ASTER Team (2019). Nunataks as keys to understanding the deglaciation process of ice-free environments in Antarctica. *VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), 25-6-2019.

Oliva, M. & Ruiz-Fernández, J. (2018). Late Quaternary environmental dynamics in the Lenin Peak (Pamir range, Kyrgyzstan). *XVI Coloquio ibérico de Geografía*. Lisboa (Portugal), 6-11-2018.

Oliva, M. & Ruiz-Fernández, J. (2018). Glacial and periglacial processes in Lenin Peak (Pamir range, Kyrgyzstan). *XV Reunión de la Sociedad Española de Geomorfología*. Palma de Mallorca (Spain), 12-9-2018.

Palacios, D.; Gómez-Ortiz, A.; Alcalá-Reygosa, J.; Andrés, N.; **Oliva, M.**; Tanarro, L.M. & Salvador-Franch, F. (2018). Avance de nuevos datos sobre el glaciario de Sierra Nevada. *XV Reunión de la Sociedad Española de Geomorfología*. Palma de Mallorca (Spain), 13-9-2018.

Oliva, M.; Antoniades, D.; Fernández-Fernández, J.M.; García-Hernández, C.; Giralt, S.; González-Díaz, B.; Granados, I.; Palacios, D.; Pérez-Alberti, A.; Pla-Rabes, S.; Sanjurjo, J.; Schimmelpfennig, I.; Toro, M.; Vieira, G. & Ruiz-Fernández, J. (2018). Glacial oscillations in the South Shetland Islands since the Last Glacial Maximum. IX Symposium on Polar Studies. Madrid (Spain), 7-9-2018.

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. & Yıldırım, C. (2018). Permafrost conditions in the Mediterranean region since the Last Glaciation. *5th European Conference on Permafrost (EUCOP 2018)*. Chamonix-Mont Blanc (France), 26-6-2018.

Oliva, M.; Serrano, E.; Ruiz-Fernández, J.; Gómez-Ortiz, A. & Palacios, D. (2018). Paraglacial dynamics in Little Ice Age glaciated environments in the Iberian Peninsula. *5th European Conference on Permafrost (EUCOP 2018)*. Chamonix-Mont Blanc (France), 26-6-2018.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Palacios, D.; Pla-Rabes, S.; Ruiz-Fernández, J.; Sanjurjo, J.; Toro, M. & Vieira, G. (2017). The deglaciation of ice-free environments in the Antarctic Peninsula region. *1st International ANTPAS Workshop on Antarctic permafrost*. Varese (Italy), 4-10-2017.

Oliva, M.; Žebre, M.; Guglielmin, M.; Çiner, A.; Vieira, G.; Andrés, N.; Bodin, X.; Colucci, R.; Gómez-Ortiz, A.; Hughes, P.; Palacios, D.; Pérez-Alberti, A.; Ruiz-Fernández, J.; Sarikaya, M.A.; Serrano, E.; Urdea, P.; Valcárcel, M. & Yıldırım, C. (2017). Permafrost evolution in the Mediterranean basin since the Last Glaciation. In: Ruiz-Fernández, J.; García-Hernández, C.; **Oliva, M.**; Rodríguez-Pérez, C. & Gallinar, D. (eds.). *Proceedings of the VII Iberian Conference of the International Permafrost Association*. Mieres (Spain), 21-6-2017.

Oliva, M.; Serrano, E.; Ruiz-Fernández, J.; Gómez-Ortiz, A. & Palacios, D. (2017). Paraglacial dynamics in Little Ice Age glaciated environments in the Iberian Peninsula. *European Geosciences Union, General Assembly 2016*. Vienna (Austria), 24-4-2017.

Oliva, M.; Navarro, F.J.; Hrbáček, F.; Hernández, A.; Nývlt, D.; Pereira, P.; Ruiz-Fernández, J. & Trigo, R. (2016). Impacts on the cryosphere of the recent cooling recorded in the Antarctic Peninsula region. *TOPCART2016*. Toledo (Spain), 27-10-2016.

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 periglacialization of the Iberian Peninsula. *1st International Conference on Research for Sustainable Development in Mountain Regions*. Bragança (Portugal), 7-10-2016.

Oliva, M.; Gómez-Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, M.; Palacios, D.; Tanarro, L. & Ramos, M. (2016). Suelo helado y permafrost en las altas cumbres de Sierra Nevada. *XIV Reunión de la Sociedad Española de Geomorfología*. Málaga (Spain), 24-6-2016.

Oliva, M.; Hrbáček, F.; Ruiz-Fernández, J.; De Pablo, M.A.; Vieira, G. & Ramos, M. (2016). Dinámica de la capa activa en tres cuencas lacustres de relieve diferenciado (Península Byers, Antártida). *XIV Reunión de la Sociedad Española de Geomorfología*. Málaga (Spain), 24-6-2016.

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). The periglacialization of the Iberian Peninsula. *XI International Conference on Permafrost*. Potsdam (Germany), 23-6-2016.

- Oliva, M.**; Gómez-Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, M.; Palacios, D.; Tanarro, L. & Ramos, M. (2016). Seasonal frost conditions and permafrost regime distribution in the high lands of Sierra Nevada (Spain). *European Geosciences Union, General Assembly 2016*. Vienna (Austria), 22-4-2016.
- Oliva, M.** & Ruiz-Fernández (2015). Late Holocene permafrost degradation in Elephant Point (Livingston Island, Antarctica). *19th Congress of the International Union for Quaternary Research (INQUA)*. Nagoya (Japan), 2-8-2015.
- Oliva, M.**; Toro, I.; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S.; Sanjurjo, J. & Liu, E.J. (2015). The deglaciation of the Byers peninsula based on a multiple dating-method approach in lake sediments of Byers Peninsula (South Shetland Islands, Antarctica). *19th Congress of the International Union for Quaternary Research (INQUA)*. Nagoya (Japan), 31-7-2015.
- Oliva, M.**; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S.; Toro, M.; Sanjurjo, J., Liu, E.J. & Vieira, G. (2015). Holocene environmental changes in Byers Peninsula (South Shetland Islands, Antarctica) based on a multiple dating-method approach to lake sediments. *Proceedings of the XII International Symposium on Antarctic Earth Science*. Goa (India), 16-7-2015.
- Oliva, M.** & Ruiz Fernández, J. (2015). Permafrost degradation in a recently deglaciated environment in (Elephant Point, Livingston, Antarctica). *Proceedings of the XII International Symposium on Antarctic Earth Science*. Goa (India), 14-7-2015.
- Oliva, M.** & Ruiz-Fernández, J. (2015). Degradación del permafrost durante el Holoceno superior en un sistema paraglacial (Punta Elefante, Antártida). *Asociación Española para el Estudio del Cuaternario*. Granada (Spain), 2-7-2015.
- 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. (2015). The periglaciation of the Iberian Peninsula. *Asociación Española para el Estudio del Cuaternario*. Granada (Spain), 2-7-2015.
- 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. (2015). The periglaciation of the Iberian Peninsula. *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), 25-6-2015.
- Oliva, M.** & Ruiz Fernández, J. (2015). Paraglacial processes and permafrost degradation in Elephant Point (Livingston Island, Antarctica). *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), 24-6-2015.
- Oliva, M.**; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S.; Toro, M.; Sanjurjo, J., Liu, E.J. & Vieira, G. (2015). Holocene deglaciation of Byers Peninsula (South Shetland Islands, Antarctica) using a combined dating-method approach to lake sediments. *Proceedings of the V Iberian Conference of the International Permafrost Association*. Valladolid (Spain), 24-6-2015.
- Oliva, M.** & Ruiz-Fernández (2015). The impacts of permafrost degradation in paraglacial environments in Elephant Point (Livingston Island, Antarctica). *European Geosciences Union, General Assembly 2015*. Vienna (Austria), 13-4-2015.
- Oliva, M.**; Serrano, E.; Gómez-Ortiz, A.; González Amuchastegui, M.J.; Nieuwendam, A.; Palacios, D.; Pérez-Alberti, A.; Ruiz Fernández, J. & Vieira, G. (2015). The periglaciation of the Iberian Peninsula. In: Díaz del Olmo, F. & Faust, D. *Quaternary archives in the Iberian Peninsula and Western Mediterranean*. CEIMAR, Sevilla (Spain), 8-3-2015.
- 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.
- 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.**; Antoniades, D.; Giralt, S.; Granados, I.; Toro, M. & Pla-Rabes, S. (2014). La deglaciación holocena de la Península Byers (isla Livingston, Antártida Marítima) a partir de la datación de sedimentos lacustres. *XIII Reunión de la Sociedad Española de Geomorfología*. Cáceres (Spain), 9-9-2014.
- 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.
- Gómez-Ortiz, A.; Salvador-Franch, F.; **Oliva, M.**; Salvà-Catarineu, M.; Palacios, D.; Tanarro, L.M. & Schulte, L. (2014). Sobre la inexistencia de permafrost en las cumbres de Sierra Nevada. *XIII Reunión de la Sociedad Española de Geomorfología*. Cáceres (Spain), 9-9-2014.
- 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.
- Oliva, M.**; Antoniades, D.; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S. & Vieira, G. (2014). Deglaciation process in Byers Peninsula (Livingston Island, Maritime Antarctica) based on lake records. In: *Vieira, G., Pina, P., Mora, C., Correia, A. (Eds). Book of abstracts of the 4th European Conference on Permafrost*, 19-6-2014.
- Oliva, M.**; Antoniades, D.; Giralt, S.; Granados, I.; Pla-Rabes, S.; Toro, M. & Vieira, G.; (2013). Preliminary results on the Holocene deglaciation of Byers Peninsula (Livingston Island, Antarctica) inferred from lake records. *IV Conferência Portuguesa das Ciências Polares*. Faro (Portugal), 31-10-2013.

- 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.;** Antoniades, 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 geoformas solifluídicas 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 solifluídica 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 solifluídicos 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. (2019). El repte de fer ciència a l'Antàrtida. *Jornada Geogràfica*. Department of Geography, University of Barcelona. Barcelona (Catalonia), 15-5-2019.

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.; Ruiz-Fernández, J.; 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). Quaternary glacial activity

- in Iberian mountain ranges. *20th Congress of the International Union for Quaternary Research (INQUA)*. Dublin (Ireland), 26-7-2019.
- Oliva, M.**; Antoniades, D.; Giralt, G.; Palacios, D.; Ruiz-Fernández, J. & Pla-Rabes, S. (2019). First field season of the PALEOGREEN project: glacial oscillations and climate variability in NE Greenland. *VII Iberian Conference of the International Permafrost Association*. Jaca (Spain), 25-6-2019.
- 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. & Yıldırım, 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.**; Antoniades, 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). 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.
- 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 solifluxión 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, permafrost, Quaternary environments, climate variability, sedimentary records, environmental management assessment, field work.

8.2 FORMAL EDUCATION

Course 2019/2020 - Department of Geography, University of Barcelona

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

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

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

- **Lecturer**, *Natural Mountain Systems*.

MSc Course. 2nd semester. Optional. MSc in Territorial Planning and Environmental Management. 5 ECTS credits.

Theory and Practicum, 4 hours/week.

- Provide advanced level of mountain studies and environmental assessment in mountain regions.
- Lead a field work visit to show the concepts introduced in class lectures.

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

- **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, Portugal

- **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, Portugal

- **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, Portugal

- **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, Portugal

- **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, Portugal

- **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, Portugal

- **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, Portugal

- **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, 2013.
- **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.** (2020). El repte de fer ciència a l'Antàrtida. Residència Assistida per a Gent Gran la Nativitat de Nostra Senyora. Barcelona, 21-2-2020.
- Oliva, M.** (2019). El repte de fer ciència a l'Àrtic. Escola Marillac. Barcelona, 29-5-2019.
- Oliva, M.** (2019). L'aventura de fer ciència a l'Antàrtida. Institut Marillac. Barcelona, 23-5-2019.
- Oliva, M.** (2019). De l'Àrtic a l'Antàrtida: dues realitats geogràfiques contrastades. Degree in Geography. Department of Geography, University of Barcelona. Barcelona (Catalonia), 6-5-2019.
- Oliva, M.** (2019). L'aventura de fer ciència a l'Antàrtida. Institut Joan Brossa. Barcelona, 7-3-2019.
- Oliva, M.** (2019). L'aventura de fer ciència a l'Antàrtida. Biblioteca de Tordera, Joan Maragall. Tordera, 6-3-2019.
- 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 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), 29-5-2018.
- 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

PhD thesis

Student: Julia García-Oteyza
Supervisor: Marc Oliva, Santiago Giralt
Institution: Faculty of Geography and History, University of Barcelona
Degree: PhD in Geography (ongoing)
Title: Glacial oscillations and climate variability in NE Greenland
Funding program: FPI program, Ministerio de Economía y Competitividad, Spain

Student: Marcelo Fernandes
Supervisor: Marc Oliva, Gonçalo Vieira
Institution: Instituto de Geografia e Ordenamento do Território (IGOT), University of Lisbon
Degree: PhD in Geography (ongoing)
Title: Chronology of deglaciation and post-glacial environmental evolution in the upper Garonne valley (Pyrenees)
Funding program: PhD fellowship funded by Fundação para a Ciência e Tecnologia (FCT), Portugal

Student: Laura Malermo
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

MSc thesis

Student: Isabel Blasi

Supervisor: Marc Oliva, Carme Puig (ICGC)

Institution: Universitat Autònoma de Barcelona, Institut Cartogràfic i Geològic de Barcelona i Universitat de Barcelona

Degree: MSc in Geoinformation

Title: Sistema Integrado de Geoinformación para procesos geomorfológicos fríos de alta montaña en un escenario de calentamiento global

Student: Laura Malermo

Supervisor: Marc Oliva, Joan Albert López-Bustins

Institution: Faculty of Geography and History, University of Barcelona

Degree: MSc in Planificació Territorial y Gestión Ambiental

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

Student: Marcelo Fernandes

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

Student: Carolina Luz

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

Bachelor degree

Student: Joel Vidal

Supervisor: Marc Oliva

Institution: Faculty of Geography and History, University of Barcelona

Degree: Degree in Geography

Title: Impacte del despoblament rural al Prepirineu: el cas de la Serra del Catllaràs

Student: Josep Bonshoms

Supervisor: Marc Oliva

Institution: Faculty of Geography and History, University of Barcelona

Degree: Degree in Geography

Title: Potencial afectació del canvi climàtic a l'estació d'esquí del Port del Comte (Solsonès, Catalunya)

Student: Judith Hebrard

Supervisor: Marc Oliva

Institution: Faculty of Geography and History, University of Barcelona

Degree: Degree in Geography

Title: Análisis del sistema bicig en Barcelona diez años después

8.7 TEACHING ACCREDITATIONS

- **Recerca avançada (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 “Estratègies i eines per a la docència mixta”, Universitat de Barcelona, 23 to 30-9-2020.
- Workshop “Curso de orientación GPS y móvil”, online, 15 and 16-6-2020.
- Workshop “BB Collaborate”, Universitat de Barcelona, 18-6-2020.
- Workshop “Política d' Open Access a la UB”, Barcelona, 27-5-2020.
- Workshop “How to write a competitive ERC Consolidator Grant 2020 proposal”, Barcelona, 28-10-2019.
- Workshop “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.
- *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 y La Antártida*, Santiago de Compostela (Spain), May'03. University of Santiago.

9.2 ATTENDANCE TO WORKSHOPS, COURSES AND FIELD TRIPS

- *Geomorphological trip: From Christchurch to Queenstown, southern Island, New Zealand*, from 4-12-2019 to 6-12-2019. International Permafrost Association. University of Waitako (New Zealand).
- *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.
- *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 to 26-4-2006. Department of Modern History, UB.
- *Eleven key questions about climate change*, Barcelona, from 1-2-2006 to 31-3-2006. Cosmocaixa, Fundació La Caixa.