CURRICULUM VITAE – OCTOBER'22

Marc Oliva, PhD

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1.- PERSONAL DETAILS

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2.- ACADEMIC DEGREES

May 2009 - **PhD, Geography**, Universitat de Barcelona
"Doctor Europaeus" Mention, Outstanding PhD award of the Universitat de Barcelona 2008-2009
September 2006 - **MSc, Applied Climatology**, Universitat de Barcelona
June 2006 - **MSc, Geography**, Universitat de Barcelona
September 2004 - **Degree in Geography**, Universitat de Barcelona

3.- PROFESSIONAL STATUS

Profesor Titular
Department of Geography, Universitat de Barcelona

Research collaborator
Centro de Estudos Geográficos-IGOT, Universidade de Lisboa

4.- ACADEMIC BACKGROUND

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

Mid-career researcher (41 yr, PhD 2009) that has already coordinated **19 research projects focused on polar and mountain ecosystems** funded by public and private international agencies. After 8 years at the Antarctic Environments and Climate Change research group of the Universidade de Lisboa (Portugal), in May 2017 I started a new challenge as Ramón y Cajal researcher at the Department of Geography of the Universitat de Barcelona (UB), where I have expanded my research fields and study topics. I have also conducted research at the University of Bern (Switzerland) and University of Ottawa (Canada). I lead a research group on Antarctic, Arctic and Alpine Environments (ANTALP). My research interests include the study of cold-climate geomorphological processes and past environments in the polar regions and high mountains using a wide range of natural records (glacial, periglacial, lacustrine). I have carried out **8 field seasons in Antarctica and 6 in the Arctic**, with one year and a half of field experience in the polar regions. Apart from Sierra Nevada, where I focused my PhD, I have conducted research in other mountain regions (Rockies, Alps, Pamir, Tien Shan, Pyrenees, Cantabrian Mountains), which has provided me a wide comprehension of Earth surface processes in cold-climate environments. I have published **114 SCI papers**, most of them in top journals (76, Q1) on geomorphological and palaeoclimate topics (84 articles with none of my PhD supervisors as co-authors, and many include my students), **99 book chapters, 200 abstracts in conferences and coordinated 5 books and 11 Special Issues in SCI journals**. The recent books I have edited "Past Antarctica" (Elsevier, 2020), "Iberia, land of glaciers" (Elsevier, 2021), "The landscape of the Sierra Nevada" and "Periglacial landscapes of Europe" (both SpringerNature, 2022) are a reference for world-leading experts working in past environments in the polar regions and in the Mediterranean mountains. I have also conducted dozens of outreach activities for an audience beyond academia (lectures, webs, exhibitions). All these research outputs have been carried out in parallel to my **teaching activities at different European universities** (Portugal, Russia, Spain).

Complete CV: http://www.marcoliva.com

5.- RESEARCH EXPERIENCE

5.1 RESEARCH GROUPS

PI of the Research Group

Antarctic, Arctic and Alpine Environments (ANTALP), Universitat de Barcelona
http://www.ub.edu/antalp/

Member of other Research Groups:

College of Polar Sciences and Extreme Environments (POLAR2E), Universidade de Lisboa, Portugal
http://polar2e.ulisboa.pt/

Climate Change and Environmental Systems (ZEPHYRUS), Universidade de Lisboa, 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)
- Centre for Northern Studies, Laval University (Canada)
- Centre for Research and Teaching in Environmental Geoscience (France)
- Czech Polar Research Group, Masaryk University (Czech Republic)
- Eurasia Institute of Earth Sciences, Istanbul Technical University (Turkey)
- Department of Geography, Complutense University of Madrid (Spain)
- Department of Physics, University of Alcalá (Spain)
- Institute Geo3bcn – CSIC (Spain)
- Pyrenean Institute of Ecology – CSIC (Spain)

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 €.
- 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 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, Universitat de Barcelona (2008-2009).
- "Doctor Europaeus" Mention, Universitat de Barcelona (2008-2009).

5.4 LANGUAGE SKILLS

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

5.5 PROFESSIONAL ACTIVITY

15-5-2022 onwards	Profesor Titular de Universidad. Department of Geography, Universitat de Barcelona.
15-5-2017 to 14-5-2022	Research scientist, Ramón y Cajal program (RYC-2015-17597). Department of Geography, Universitat de Barcelona. Funded by the Ministry of Economy and Competitiveness, Spain.
1-7-2014 to 14-5-2017	Research scientist. Centro de Estudos Geográficos-IGOT. Universidade de Lisboa. 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. Universidade de Lisboa. Funded by AXA Research Fund.
31-12-2010 to 31-12-2012	Postdoctoral researcher (Beatriu de Pinós fellowship). Centro de Estudos Geográficos-IGOT. Universidade de Lisboa. Funded by Agència de Gestió i Ajuts Universitaris i Recerca, Catalonia.
1-1-2010 to 30-12-2010	Postdoctoral researcher (FCT fellowship). Centro de Estudos Geográficos-IGOT. Universidade de Lisboa. 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 Universitat de Barcelona.
1-1-2007 to 31-12-2008	PhD contract (FPU). Department for Physical and Regional Geography, Universitat de 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, Universitat de 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. Universitat de 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, Universitat de 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 *Ajuts per a la difusió en xarxes informàtiques de la recerca dels Grups de Recerca de la Facultat*, Comissió de Recerca de la Facultat de Geografia i Història, Universitat de Barcelona (1,318.28 €).
- Grant for *Ajuts per al cofinançament per a la renovació d'equipament científic i tecnològic de recerca obsolet*, Comissió de Recerca de la Facultat de Geografia i Història, Universitat de Barcelona (1,049 €).
- Grant for International mobility of professors and promotion of internationalization of the centres of the Universitat de Barcelona – 2019 to lecture a course at the Master CORELIS – Cold Regions Landscape Integrated Sciences), Saint Petersburg State University (360 €).
- 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 (all expenses covered).
- Grant to attend the "*Thaw2014 Conference*". Funded by the Climate and Cryosphere Project. Laval (Canada), 7-12th March, 2014 (all expenses covered).
- Grant to attend PAGE21 workshop. Funded by the International Permafrost Association. Abisko (Sweden), 19-20th September, 2013 (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 (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 (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 (750 €).
- 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 ($500).
- 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 (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 (1,040 €).
- 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 (2,200 €).
- Contribution to the Catalan version of the PhD thesis. Funded by the Agència de Gestió i Ajuts Universitaris i de Recerca, Catalan Government (500 €).
- 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 (all expenses covered).

- Grant to attend the "*9th International Conference on Permafrost*". Funded by the Facultat de Geografia i Història, Universitat de Barcelona. Fairbanks (Alaska, USA), 28-6-2008 to 2-7-2008 (700 €).
- Grant to attend the "*9th International Conference on Permafrost*". Funded by the International Permafrost Association (IPA) and University of Alaska. Fairbanks (Alaska, USA), 28-6-2008 to 2-7-2008 (all expenses covered).

5.7 INTERNSHIPS

2010-17 Centro de Estudos Geográficos-IGOT, Universidade de Lisboa – 2010-May 2017 (90 months)
2008 Department of Geography, University of Ottawa (Canada) – 2 months
2007 Geographiches Institut, University of Bern (Switzerland) – 4 months
2006 Geographiches Institut, University of Bern (Switzerland) – 2 months
2004 Centro Austral Investigaciones Científicas (CADIC-CONICET), Ushuaia (Argentina) – 1 month

5.8 FIELD WORK EXPERIENCE

2022 Ilulissat region (W Greenland), from 27-6-2022 to 13-7-2022.
Topics: cosmogenic sampling, geomorphological mapping, deglaciation, lake coring, soil sampling.
2021 Iberian Range, from 11-7-2021 to 15-7-2021.
Topics: cosmogenic sampling, geomorphological mapping, deglaciation reconstruction.
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 seasons.
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: geomorphological mapping, permafrost distribution.
2014 Elephant Point and Byers Peninsula, Livingston Island (Antarctica), from 16-1-2014 to 26-2-2014.
Topics: geomorphological mapping, permafrost distribution.
2012 Byers Peninsula, Livingston Island (Antarctica), from 6-11-2012 to 11-12-2012.
Topics: lake coring.
2012 King George Island (Antarctica), from 26-1-2012 to 26-2-2012.
Topics: lake coring, soil sampling, active layer monitoring.
2011 Svalbard (Norway), from 25-8-2011 to 4-9-2011.
Topics:, 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: permafrost monitoring, soil sampling, field reconnaissance.
2010 Svalbard (Norway), from 13-6-2010 to 27-6-2010.
Topics: 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 seasons.
Topics: 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 seasons.
Topics: PhD research, Holocene, palaeoenvironments, permafrost, solifluction, lake records.

5.9 RESEARCH PROJECTS

COORDINATION (PI)

2022-2025 **NEOGREEN** - *Reconstruction of Neoglacial oscillations in Greenland.* Ministerio de Economía y Competitividad, Spain, PID2020-113798GB-C31. PI: Dr **Marc Oliva** (314,600 €).

2022-2025 **NEOARCTIC** - *Reconstruction of Neoglacial oscillations and climate variability in Greenland and Iceland.* Ministerio de Economía y Competitividad, Spain, PID2020-113798GB-C31+ PID2020-113798GB-C32+ PID2020-113798GB-C33. Coordinated project PI: Dr **Marc Oliva** (723,600 €).

2022-2023 **CRIOPIRINEUS** - Impacte del glaciarisme i periglaciarisme en el paisatge alpí del Parc Natural de l'Alt Pirineu. Subvencions als espais naturals de Catalunya, als hàbitats i espècies. Programa de desenvolupament rural de Catalunya 2014-2020, ref. TES188/21/000307, Generalitat de Catalunya. Dr **Marc Oliva** (30,494 €).

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, PTDC/CTA-GFI/32002/2017 - 32002. PI: Dr **Marc Oliva** (240,000 €).

2018-2021 **PALEOGREEN** - *Glacial oscillations and climate variability in NE Greenland.* Ministerio de Economía y Competitividad, Spain, CTM2017-87976-P. PI: Dr **Marc Oliva** (235,000 €).

2017-2021 **ANTALP** - *Antarctic, Arctic and Alpine Environments*. Generalitat de Catalunya. Ajuts de Suport als Grups de Recerca, 2017 SGR 1102. PI: Dr **Marc Oliva** (19,200 €).

2018-2018 **GLACIGREEN** - *Glacial oscillations in NE Greenland.* INTERACT Transnational Access. Funded by European Union's Horizon 2020 research programme, Grant No. 730938. PI: Dr **Marc Oliva** (12,200 €).

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** (120,000 €).

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** (120,000 €).

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), Universidade de Lisboa, 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 (6,750 €).

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 €).

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, PDTC/CTE-SPA/099041. PI: Dr Pedro Pina.

2010-2012 *El interés científico de la documentación de época para el estudio del glaciarismo 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

2022-2023 Changing Greenland: Scientists in the High Artic (GREENLIFE). 2022 AXA Research Fund Outreach Grant. PI: Dr **Marc Oliva** (8,000 €).

2022-2023 Caracterització geomorfològica i establiment de la cronologia del glaciarisme quaternari a la Serra del Cadí (GLACICADÍ). Contracte amb el Parc Natural del Cadí-Moixeró. PI: Dr **Marc Oliva** (16,928 €).

2017-2022 Complementary resources of the Ramón y Cajal contract (RYC-2015-17597). PI: Dr **Marc Oliva** (40,000 €).

2018-2019 Antarctica in Iberia. AXA Research Fund. PI: Dr **Marc Oliva** (6,500 €).

2017-2018 Análisis de explotaciones agropecuarias con incidencia de carnívoros en cabaña ganadera. Gobierno del Principado de Asturias. PI: Dr Jesús Ruiz-Fernández.

5.11 ORGANIZATION OF R+D ACTIVITIES

- Convener of the session "Periglacial processes and landforms" within the *6th European Conference on Permafrost.* International Permafrost Association. Puigcerdà (Catalonia), 19-24 June 2023.
- Co-convener of the session "Periglacial and paraglacial environments in Antarctica" within the *6th European Conference on Permafrost.* International Permafrost Association. Puigcerdà (Catalonia), 19-24 June 2023.
- Co-convener of the session "Surficial Processes-Geomorphology, Chemical Weathering, Exposure Age Dating, and Permafrost Dynamics" within the 10th SCAR Open Science Conference. Virtual (India), 1-10th August 2022.
- Co-convener of the session "Arctic Glaciers and Ice Sheets: Past, Present and Future" within the *Arctic Science Summit Week 2021*. Online, 19-26 March 2021.
- 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 (Switlerland), 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*. Universitat de Barcelona. Barcelona, January 2007.
- Organization of the seminar: *1st scientific meeting of the Landscape Research laboratory*. Universitat de Barcelona. Barcelona, June 2007.

5.12 REFEREE ACTIVITIES

- Reviewer for international peer-reviewed 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, Journal of Maps*, *Nemus*.
- 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.*
- 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.
- Referee of Spanish calls for research projects (Agencia Nacional de Evaluación y Prospectiva), since September’15.
- Referee of Czech National calls for research projects and PhD fellowships, since July’15.
- Referee of Polish National calls for research projects, since March’17.
- Referee of National Science and Engineering Research Council of Canada for research projects, since December’17.
- Referee and member of the panel of the call for research projects the Research Council of Norway, since July’19.
- Referee of French Polar Institute calls for research projects, since August’20.
- Referee and member of the panel of the call for research projects of the Consejo Nacional de Ciencia, Tecnología e Innovación Tecnológica of Perú, since April’21.
- Referee and member of the panel of the call for research projects the Research Council of Slovakia, since July’21.
- Referee of the SCAR Fellowships scheme of the *Scientific Committee on Antarctic Research,* 2020.
- Referee of the organization of training schools within the European Geosciences Union during 2014, 2014.
- Referee of grants 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)*", 9-11-2018.
- PhD candidate: Manuel Gómez Lende, University of Valladolid (Spain): "*Las cuevas heladas en Picos de Europa: clima, morfologías y dinámicas*", 12-7-2015, rapporteur.
- PhD candidate: Jesús Alcalá Reygosa, Complutense University of Madrid (Spain): "*La evolución volcánica, glaciar y periglaciar del complejo volcánico Ampato (Sur de Perú)*", 12-11-2014.
- PhD candidate: Jesús Ruiz Fernández, University of Oviedo (Spain): "*Las formas de modelado glaciar, periglaciar y fluviotorrencial del macizo Occidental de los Picos de Europa (Cordillera Cantábrica)*", 4-1-2013.

5.14 MEMBER OF EDITORIAL BOARDS

- Journal Land Degradation & Development, since July'16.
- Journal Solid Earth, 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 (ANTPAS) of the "Scientific Committee on Antarctic Research (SCAR)", since January 2018.
- Spanish Chair 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.

5.17 MEMBER OF THE SCIENTIFIC COMMITTEE IN CONFERENCES

- *10th International Conference on Geomorphology.* Coimbra (Portugal), 12-16th September 2022.
- *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 2023.
- *32 Jornadas de campo de Geografía Física - 1er Congreso de Geografía Física. Investigación, educación y desarrollo*. Valencia (Spain) – Wageningen (Netherlands), 30th June – 10th July 2017.

- *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: 3687; 392 (2018), 503 (2019), 660 (2020), 727 (2021), 642 (2022).
- H index = 32; H index (since 2017) = 28.
- I10 index = 77, I10 index (since 2017) = 69.

Scopus

- Total citations: 2315; 255 (2018), 343 (2019), 467 (2020), 569 (2021), 391 (2022).
- H index = 26.
- Total publications: 114 (74 in Q1).

6.- PUBLICATIONS

6.1 THESIS

2009 **Oliva, M.** (2009). *Reconstrucció paleoambiental holocena de Sierra Nevada a partir de registres sedimentaris*. Tesi doctoral. Universitat de Barcelona.

2009 **Oliva, M.** (2009). *Holocene alpine environments in Sierra Nevada (Southern Spain)*. PhD thesis. Universitat de Barcelona.

2006 **Oliva, M.** (2006). *Reconstrucció paleoambiental holocena de Sierra Nevada a partir de registres sedimentaris. Resultats preliminars*. MSc thesis. Universitat de Barcelona.

6.2 ARTICLES IN INTERNATIONAL PEER-REVIEWED JOURNALS

submitted

Hrbáček, F.; **Oliva, M.**; Abramov, A.; de Pablo, M.A.; Ramos, M.; Vieira, G.; Goyanes, G.; Hansen, C.; O'Neill, T.; Lacelle, D.; Ponti, S.; Guglielmin, M.; Pastirikova, L.; Schaefer, C. & Francellino, M. (*submitted*). Variability of active layer and permafrost thermal regime and thickness in Antarctica. *Earth-Science Reviews.*

Fernandes, M.; **Oliva, M.**; Vieira, G.; Palacios, D.; Fernández-Fernández, J.M.; Garcia-Oteyza, J.; Schimmelpfennig, I.; ASTER Team & Antoniades, D. (*submitted*). Transition from glacial to periglacial dynamics in glacial cirques of the Central Pyrenees from the Heinrich Stadial-1 event to the onset of the Holocene. *Land Degradation & Development*.

García-Oteyza, J.; **Oliva, M.**; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; Fernandes, M.; Medialdea, A.; Giralt, S.; Jomelli, V.; Antoniades, D. & ASTER Team (*submitted*). Holocene glacial oscillations in the Tyroler Valley (NE Greenland). *Land Degradation & Development.*

reviewed

Turu, V.; Peña-Monné, J.L.; Cunha, P.; Jalut, G.; Buylaert, J.P.; Murray, A.S.; Bridgland, D.; Faurschou-Knudsen, M.; Carrasco, R.M.; Ros, X.; Turu-Font, L.; **Oliva, M.** & Ventura, J. (reviewed). Glacial–interglacial cycles in the south–central and south-eastern Pyrenees since ~180 ka (NE Spain-Andorra-SE France). *Quaternary International*.

Oliva, M.; Palacios, D.; Fernández-Fernández, J.M.; Fernandes, M.; Schimmelpfennig, I.; Vieira, G.; Antoniades, D.; Pérez-Alberti, A.; García-Oteyza, J. & ASTER Team (*reviewed*). Holocene deglaciation of the northern Fildes Peninsula, King George Island, Antarctica. *Land Degradation & Development*.

2022

González-Herrero, S.; Barriopedro, D.; Trigo, R.; López-Bustins, J.A. & **Oliva, M.** (2022). Climate warming amplified the 2020 record-breaking heatwave in the Antarctic Peninsula. *Communications Earth & Environment*, doi: 10.1038/s43247-022-00450-5.

Bonsoms, J.; López-Moreno, J.I.; González-Herrero, S. & **Oliva, M.** (2022). Increase of the energy available for snow ablation in the Pyrenees (1959 – 2020) and its relation to atmospheric circulation. *Atmospheric Research*, 275: 106228.

García-Oteyza, J.; **Oliva, M.**; Palacios, D.; Fernández-Fernández, J.M.; Andrés, N.; Schimmelpfennig, I.; Antoniades, D.; Christiansen, H.; Humlun, O.; Ruiz-Fernández, J. & ASTER Team (2022). Late Glacial deglaciation of the Zackenberg area, NE Greenland. *Geomorphology*, 401: 108125.

Santos-González, J.; González-Gutiérrez, R.B.; Redondo-Vega, J.M.; Gómez-Villar, A.; Jomelli, V.; Fernández-Fernández, J.M.; Andrés, N.; García-Ruiz, J.M.; Peña-Pérez, S. A.; Melón-Nava, A.; **Oliva, M.**; Álvarez-Martínez, J.; Charton, J.; ASTER Team & Palacios, D. (2022). The origin and collapse of relict rock glaciers during the Bølling-Allerød interstadial: a new study case from the Cantabrian Mountains (Spain). *Geomorphology*, 401: 108112.

Fernandes, M.; **Oliva, M.**; Vieira, G. & Lopes, L. (2022). Geomorphological map of the Aran valley (Upper Garonne valley, Central Pyrenees). *Journal of Maps*, doi: 10.1080/17445647.2022.2035266.

2021

Tanarro, L.M.; Palacios, D.; Fernández-Fernández, J.M.; Andrés, N.; **Oliva, M.**: Rodríguez-Mena, M.; Schimmelpfennig, I.; Brynjólfsson, S.; Sæmundsson, Þ.; Zamorano, J.J.; Úbeda, J. & ASTER Team (2021). Origins of the divergent evolution of mountain glaciers during deglaciation: Hofsdalur cirques, Northern Iceland. *Quaternary Science Reviews*, 273: 107248.

Fernandes, M.; **Oliva, M.**; Vieira, G.; Palacios, D.; Fernández-Fernández, J.M.; Delmas, M.; Garcia-Oteyza, J.; Schimmelpfennig, I.; Ventura, J.; ASTER Team & Antoniades, D. (2021). Maximum glacier extent of the Penultimate Glacial Cycle in the Upper Garonne Basin (Pyrenees): new chronological evidence. *Environmental Earth Sciences,* 80: 796.

Fernandes, M.; **Oliva, M.**; Vieira, G.; Palacios, D.; Fernández-Fernández, J.M.; Garcia-Oteyza, J.; Schimmelpfennig, I.; ASTER Team & Antoniades, D. (2021). Glacial oscillations during the Bølling-Allerød Interstadial-Younger Dryas transition in the Ruda Valley, Central Pyrenees. *Journal of Quaternary Science*, doi: 37(1): 42-58.

Fernández-Fernández, J.M.; **Oliva, M.**; Palacios, D.; García-Oteyza, J.; Navarro, F.; Schimmelpfennig, I.; Léannid, L. & ASTER Team (2021). Ice thinning on nunataks during the Last Glacial Termination in the Antarctic Peninsula according to Cosmic-Ray Exposure dating: evidence and uncertainties. *Quaternary Science Reviews*, 264: 107029.

Palacios, D.; Rodríguez-Mena, M.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; Tanarro, L.M.; Zamorano, J.J., Andrés, N.; Sæmundsson, Þ., Brynjólfsson, S.; **Oliva, M.** & ASTER Team (2021). Reversible glacial-periglacial transition in response to climate changes and paraglacial coupling: a case study from Héðinsdalsjökull (Northern Iceland). *Geomorphology*, 388: 107787.

Bonsoms, J.; González-Herrero, S.; Prohom, M.; Esteban, P.; Salvador-Franch, F.; López-Moreno, J.I. & **Oliva, M.** (2021). Spatio-temporal patterns of snow in the Catalan Pyrenees (NE Iberia). *International Journal of Climatology*, 41(12): 5676-5697.

Oliva, M.; Fernandes, M.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; ASTER Team & Antoniades, D. (2021). Rapid deglaciation during the Bølling-Allerød Interstadial in the Central Pyrenees and associated glacial and periglacial landforms. *Geomorphology*, 385: 107735.

Bonsoms, J.; Salvador-Franch, F. & **Oliva, M.** (2021). Snowfall and snow cover evolution in the Eastern Pre-Pyrenees (NE Iberian Peninsula). *Cuadernos de Investigación Geográfica*, 47 (2): 291-307.

2020

Fernandes, M.; **Oliva, M.**; Vieira, G. (2020). Paraglacial slope failures in the Aran valley (Central Pyrenees). *Quaternary International*, 566-567: 24-38.

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 Lette*rs, 15: 104070.

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). *Geografia Fisica e Dinamica Quaternaria*, 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.; Kňažková, 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*, 2: 5-19.

Oliva, M.; Mercier, D.; Ruiz-Fernández, J. & McColl, S. (2019). Paraglacial processes in recently deglaciated environments. *Land Development & Degradation*, 31 (15): 1871-1876.

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.; Kňažková, 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.; Etzelmüller, B.; Grosse, G.; Guglielmin, M.; Ingeman-Nielsen, T.; Isaksen, K.; Ishikava, 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.;, Johansson, 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 Iberian mountains: A review. *Land Degradation & Development,* 29 (11); 4186-4208.

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.; Sarıkaya, 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.

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7.- PARTICIPATION IN CONFERENCES

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Oliva, M. & Ruiz-Fernández (2014). Procesos geomorfológicos en Punta Elefante (isla Livingston, Antártida). *XIII Reunión de la Sociedad Española de Geomorfología*. Cáceres (Spain), 9-9-2014.

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Oliva, M.; 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.

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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.

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

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

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

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

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

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

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2007). Lóbulos de gelisolifluxión 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. (20221). Glacial oscillations in the Antarctic Peninsula region since the Last Glacial Maximum. Meeting of the Polish Association of Geomorphologists. Istanbul Technical University. Istanbul (Turkey), 4-11-2022.

Oliva, M. (2022). Saptial and temporal patterns of glacial oscillations in the Antarctic Peninsula region since the Last Glacial Maximum. Quaternary Symposium of Turkey. University of Wraclow. Wraclow (Poland), 28-9-2022.

Ventura, J. & **Oliva, M.** (2021). El paisatge glacial al Parc Natural de l'Alt Pirineu. Cicle de xerrades. Parc Natural de l'Alt Pirineu. Online, 23-11-2021.

Oliva, M. (2021). Les glaceres a Cerdanya durant la Última Glaciació. 1a Jornada de Geologia i Paleontologia de Cerdanya i del Pirineu. Grup de Recerca de Cerdanya. Puigcerdà, 23-10-2021.

Oliva, M. (2021). Estado térmico del permafrost y dinámica ambiental. *El estudio de los glaciares como indicadores de cambio climático*. Cursos extraordinarios de la Universidad de Zaragoza. Instituto Pirenaico de Ecología-CSIC. Jaca (Spain), 15-7-2021.

Oliva, M. (2021). Evolución climática y oscilaciones glaciares en la Antártida desde el Último Máximo Glaciar. *El estudio de los glaciares como indicadores de cambio climático*. Cursos extraordinarios de la Universidad de Zaragoza. Instituto Pirenaico de Ecología-CSIC. Jaca (Spain), 15-7-2021.

Oliva, M. (2021). Investigación polar: retos y oportunidades. *El estudio de los glaciares como indicadores de cambio climático*. Cursos extraordinarios de la Universidad de Zaragoza. Instituto Pirenaico de Ecología-CSIC. Jaca (Spain), 13-7-2021.

Oliva, M. (2021). Qué está pasando con los glaciares en las regiones polares**?** Arctic Live Day 2021. AXA Research Fund. Online for Mexico schools (2700 students), 15-6-2021.

Oliva, M. (2021). Thermal state of permafrost and environmental dynamics. Jornadas CSIC. Curso online, 25-5-2021.

Oliva, M. (2021). Permafrost: estado térmico y tendencias recientes. Curso de formación AEMET (Agencia estatal de Meteorología): Impacto en la Criosfera. Curso online, 8-4-2021.

Oliva, M. (2020). Dinàmica de les glaceres a l'Antàrtida des de l'Últim Màxim Glacial. Department of Geography, Universitat de Barcelona. Barcelona, 25-11-2020.

Oliva, M. (2019). El repte de fer ciència a l'Antàrtida. *Jornada Geogràfica*. Department of Geography, Universitat de Barcelona. Barcelona, 15-5-2019.

Oliva, M. (2018*).* Sierra Nevada: los glaciares más meridionales de Europa. *As pegadas do glaciarismo*, 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 Antactic*. 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 Portugués, Lisbon (Portugal), 8-5-2015.

Oliva, M. (2015). Overview on palaeoenvironments in polar and mountain Iberian regions. *Students in Polar Research Conference 2015*. Masaryk University, Brno (Czech Republic), 20-4-2015.

Oliva, M. (2014). Holocene environments in Byers and Fildes peninsulas (Maritime Antarctica). *Workshop Antarctic training 2014-2015, Portuguese Polar Program*. Lisbon (Portugal), 15-11-2014.

Oliva, M. (2014). Field work logistics in Antarctica. Problems and opportunities. Workshop "Successful fieldwork - an APECS and PYRN panel discussion", *European Geosciences Union, General Assembly 2014*. Vienna (Austria), 30-4-2014.

Oliva, M. (2013). Holocene environmental change in the Maritime Antarctic. Interactions between permafrost and lacustrine environment. *Workshop Antarctic training 2013-14, Portuguese Polar Program*. Lisbon (Portugal), 15-11-2013.

Oliva, M. (2012). Evolução dos ambientes com permafrost das ilhas Shetland do Sul no Holocénico Superior - Antárctica Marítima. *Workshop Portuguese Polar Program*. Instituto Hidrográfico Portugal. Lisbon (Portugal), 11-6-2012.

Oliva, M. (2011). Antarctic campaign HOLOANTAR 2011-2012.Holocene environmental change in the Maritime Antarctic. Interactions between permafrost and the lacustrine environment. *1st Portuguese Antarctic meeting for field work preparation. Portuguese Polar Program*. Lisbon (Portugal), 17-11-2011.

Oliva, M.; Gómez-Ortiz, A.; Salvador-Franch, F. & Salvà-Catarineu, M. (2011). Contribución al conocimiento de fases frías en la Hoya del Mulhacén (Sierra Nevada) durante el Holoceno Superior. *Seminario sobre glaciarismo 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* (Geographiches Institut, University of Bern). Bern (Switzerland), 12-12-2007.

Oliva, M. (2007). Holocene alpine environments in Sierra Nevada (Andalusia, Spain). *Palaeo-Geocology seminar* (Geographiches Institut, University of Bern). Bern (Switzerland), 7-12-2007.

Oliva, M. (2007). Reconstrucció paleoambiental holocena de Sierra Nevada. Avenços preliminars. *1stScientific meeting of the Landscape Service of the Universitat de Barcelona*. Barcelona, 6-6-2007.

Oliva, M. (2006). Holocene palaeoenvironments in Sierra Nevada. *Palaeo-Geocology seminar* (Geographiches Institut, University of Bern). Bern (Switzerland), 7-11-2006.

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

Oliva, M.; Palacios, D.; Fernández-Fernández, J.M.; Fernandes, M.; Schimmelpfennig, I.; Vieira, G.; Antoniades, D.; Pérez-Alberti, A.; García-Oteyza, J. & ASTER Team (2022). Major deglaciation of lateral valleys of the Tyrolerfyord Valley (NE Greenland) during the Early Holocene. *10th International Conference of the International Association of Geomorphologists*. Coimbra (Portugal), 16-9-2022..

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.; Sarıkaya, 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). CRONOBYERS - 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.

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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.

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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). *I 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 2021/2022

Department of Geography, Universitat de Barcelona

- **Lecturer**, *Global change.*
  3rd Course. 2nd semester. Optional. Degree of Geography. 3 ECTS credits. Theory and Practicum, 3 hours/week.
  - Introduce concepts related to global change.
  - Teach different perspectives on climate and global changes at different spatial and temporal scales.

- **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 complement the concepts presented at class.

Course 2020/2021

Department of Geography, Universitat de 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 complement the concepts presented at class.

- **Mentoring Degree thesis**, *Geography*.
  4th Course. Annual. Mandatory. Degree of Geography. 1 ECTS credits.

Department of Geography, Saint Petersburg State University, Russia

- **Lecturer**, *Quaternary Environments*.
  - Course at the Master CORELIS – Cold Regions Landscape Integrated Sciences, 6 hours.
  - Provide basic level of Quaternary studies and methods used in environmental and climate reconstructions.

Course 2019/2020

Department of Geography, Universitat de 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 complement the concepts presented at class.

Course 2018/2019

Department of Geography, Universitat de 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.

Department of Geography, Saint Petersburg State University, Russia

- **Lecturer**, *Quaternary Environments*.
  - Course at the Master CORELIS – Cold Regions Landscape Integrated Sciences, 8 hours.
  - Provide basic level of Quaternary studies and methods used in environmental and climate reconstructions.

Course 2017/2018

Department of Geography, Universitat de 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 - Universidade de Lisboa, 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.
  - Lead a field work visit to complement the concepts presented at class.

- **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 complement the concepts presented at class.

Course 2015/2016

Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, 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.
  - Lead a field work visit to complement the concepts presented at class.

- **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 complement the concepts presented at class.

- **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 complement the concepts presented at class.

Course 2014/2015

Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, 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 complement the concepts presented at class.

- **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 complement the concepts presented at class.

Course 2013/2014

Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, 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 complement the concepts presented at class.

Course 2012/2013

Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, 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 complement the concepts presented at class.

Course 2011/2012

Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, 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 complement the concepts presented at class.

Course 2010/2011

Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, 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 complement the concepts presented at class.

Course 2008/2009

Department of Geography, Universitat de 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, Universitat de 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**, *Cursos extraordinarios de la Universidad de Zaragoza*
  Workshop "El estudio de los glaciares como indicadores de cambio climático". Jaca (Spain), 12-15 July 2021.
- **Invited lecturer**, Universidad Internacional Menéndez Pelayo
  Workshop "Glaciares, nieve y permafrost de montaña: la criósfera como indicadora de cambios en el clima". Aínsa (Spain), September 2017.
- **Invited lecturer**, *Geografía de las áreas polares*
  Summerschool of the University of Oviedo. Practical credits, 3 hours, August, 2015.
- **Invited lecturer**, *Frío extremo. De Iberia a los Polos y Marte. Ciencia e investigación en torno al permafrost*.
  Summerschool of the Universidad de Valladolid, Valladolid (Spain), May 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, Universidade de Lisboa, 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. (2022). L'aventura de fer ciència a l'Antàrtida. Parc Natural Cadí Moixeró. Matinet de Cerdanya, 4-6-2022.

Oliva, M. (2021). Permafrost distribución y tendencia. Curso de formación AEMET (Agencia estatal de Meteorología): Impacto en la Criosfera. Curso online, 8-4-2021.

Oliva, M. (2021). Qué está pasando con los glaciares en las regiones polares? AXA Arctic Live 2021. Online lectura for Mexican schools online, 11-6-2021.

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, Universitat de Barcelona. Barcelona, 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, 10-5-2018.

Oliva, M. (2018). La geomorfologia a Catalunya: perspectives de futur. Societat Catalana de Geografia, Institut d'Estudis Catalans. Barcelona, 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 Antárctida. 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, Universidade de Lisboa. 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, Universidade de Lisboa. 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 Antárctida. Summerschool for students on Physical Geography. Instituto de Geografia e Ordenamento do Território, Universidade de Lisboa. 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). Palaeonvironmental 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, Universitat de Barcelona. Barcelona, 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, Universitat de Barcelona. Barcelona, 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, Universitat de Barcelona. Barcelona, 4-3-2013.

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

Oliva, M. (2013). A aventura de fazer ciência na Antárctida. MSc in Architecture, Projecto Relâmpago_2013, Instituto Superior Técnico, Universidade de Lisboa. 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, 29-5-2012.

Oliva, M. (2012). L'estudi dels procesos geomorfológics 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, 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 Ghando 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 Estudos Geográficos, Universidade de Lisboa. Lisbon (Portugal), 17-3-2010.

8.5 ORGANIZATION OF TRAINING ACTIVITIES (WORKSHOPS, FIELDTRIPS)

Institution: Universitat de Barcelona
Event: open seminar
Title: Seminar on mountain regions: study cases from the Pyrenees, Sarajevo and Iceland
Place and date: Barcelona, 26 April 2022

Institution: Universitat de Barcelona
Event: open seminar

Title: Workshop on mountain studies: from polar to mid-latitude mountain regions
Place and date: Barcelona, 21 January 2021

Institution: Universidade de Lisboa
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: Universidade de Lisboa
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: Universidade de Lisboa 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: Universidade de Lisboa and University of Oviedo
Event: international fieldtrip for students of Geography co-organized by the Universidade de Lisboa 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: Universidade de Lisboa
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: Valentí Turu
Supervisor: **Marc Oliva**
Institution: Facultat de Geografia i Història, Universitat de Barcelona
Degree: PhD in Geography (ongoing)
Title: Estudi del drenatge subglacial i de la consolidació dels sediments a les valls d'Andorra (Pirineus Orientals)

Student: Josep Ventura
Supervisor: **Marc Oliva**
Institution: Facultat de Geografia i Història, Universitat de Barcelona
Degree: PhD in Geography (ongoing)
Title: Les glaceres rocalloses del Pirineu centre-oriental: distribució, dinàmica i cronologia

Student: Julia García-Oteyza
Supervisor: **Marc Oliva**, Santiago Giralt
Institution: Facultat de Geografia i Història, Universitat de 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), Universidade de Lisboa
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

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: Facultat de Geografia i Història, Universitat de Barcelona
Degree: MSc in Planificación Territorial y Gestión Ambiental
Title: Distribución espacio-temporal y Caracterización morfogenética 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), Universidade de Lisboa
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, Universidade de Lisboa, 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: Lydia Arroyo
Supervisor: **Marc Oliva**, Santiago Giralt
Institution: Facultat de Geografia i Història, Universitat de Barcelona
Degree: Degree in Geography, 2021
Title: Variabilitat climàtica al NE de Groenlàndia inferida a partir de registros lacustres

Student: Joel Vidal
Supervisor: **Marc Oliva**
Institution: Facultat de Geografia i Història, Universitat de Barcelona
Degree: Degree in Geography, 2019
Title: Impacte del despoblament rural al Prepirineu: el cas de la Serra del Catllaràs

Student: Josep Bonsoms
Supervisor: **Marc Oliva**
Institution: Facultat de Geografia i Història, Universitat de Barcelona
Degree: Degree in Geography, 2019
Title: Potencial afectació del canvi climàtic a l'estació d'esquí del Port del Comte (Solsonès, Catalunya)

Student: Judith Hebrard
Supervisor: **Marc Oliva**
Institution: Facultat de Geografia i Història, Universitat de Barcelona
Degree: Degree in Geography, 2018
Title: Análisis del sistema bicing en Barcelona diez años después

Postdoctoral researchers

Researcher: José M. Fernández-Fernández
Institution: Instituto de Geografia e Ordenamento do Território (IGOT), Universidade de Lisboa
Title: Analysis of nunataks of the Antarctic Peninsula as multiproxy data sources on environmental change and climate dynamics
Funding program Fundação para a Ciência e Tecnologia (FCT), Portugal

8.7 TEACHING ACCREDITATIONS

- **Profesor Titular**, Agencia Nacional de Evaluación de la Calidad y Acreditación, February 2022.
- **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 "Análisis espacial con ArcGIS Pro", ESRI, Universitat de Barcelona, 6 to 8-9-2022.
- Workshop "Curs R", Universitat de Barcelona, October-November 2021.
- 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, Universitat de 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 (UK), 18 to 20-11-2010. Univ. Loughborough.
- *Understanding the role of permafrost in a rapidly warming climate (Fairbanks, Alaska, USA)*, from 25-6-2008 to 27-8-2008. University de Fairbanks.
- *Workshop for young professors* at the Universitat de Barcelona, 16-1-2008 and 17-1-2008. Institute of Educational Sciences of the Universitat de Barcelona.
- *Paleo-Geoecology and Landscape Development Seminar* of the University of Bern (Switzerland), from 15-9-2007 to 22-12-2007. Geographiches 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. Geographiches 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 (Argentina), from 6-3-2004 to 22-3-2004. Lab. Geología del Cuaternario. Centro Austral 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 to15-7-2008. 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.