
CURRICULUM VITAE – MARCH'25



Marc Oliva, PhD

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PERSONAL DETAILS

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

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

PROFESSIONAL STATUS

Profesor Titular de Universidad

Department of Geography, Universitat de Barcelona

ACADEMIC BACKGROUND

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

Mid-career researcher (PhD 2009), Associate Professor (“Profesor Titular”) at the Department of Geography of the Universitat de Barcelona (UB). After 8 years at the Antarctic Environments and Climate Change group of the University of Lisboa, in May’17 I started as RyC researcher at Geography-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). Currently, I lead a research group on Antarctic, Arctic and Alpine Environments (ANTALP). I have carried out 9 seasons in the Arctic and 8 in Antarctica, with ca. 2.5 years spent in the polar regions. My research interests include the study of cold climate geomorphological processes and past environments in polar and high mountains regions using a wide range of natural records (glacial, periglacial, lacustrine). As PI I have coordinated **28 projects** at European (INTERREG-POCTEFA, INTERACT-EU, AXA RF) and national level (Spanish/Catalan, Portuguese) (> 5.5 M€). I am currently leading a major European project on permafrost and related hazards in the Pyrenees as well as the largest polar project in Spain. I have published **177 peer-reviewed papers** (Scopus, 20-3-2026), most in top journals (106, Q1) on geomorphological and paleoclimate topics, **125 book chapters**, 252 conference abstracts and coordinated **11 books** and **12 Special Issues in journals**. The last books I have published with Elsevier/SpringerNature (“Past Antarctica”, “Iberia, land of glaciers”, “The landscape of Sierra Nevada”, “Periglacial landscapes of Europe”) are a reference for researchers working in the polar regions and mid-latitude mountains; in addition, I have just coordinated the book “Global Change” (with Edicions UB in Spanish, SpringerNature in English), the most complete handbook for students and professionals on the topics. I have also carried out dozens of outreach activities for an audience beyond academia (lectures, social networks, documentaries, exhibitions). All these research outputs have been carried out in parallel to my teaching activities at different European universities (Portugal, Russia, France, Spain).

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

1.- ACADEMIC MANAGEMENT & RESEARCH ACTIVITIES

1.1 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/>

1.2 ACADEMIC 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)

1.3 AWARDS

- ICREA Acadèmia. Institució Catalana de Recerca i Estudis Avançats. Generalitat de Catalunya. 200,000 €, 2025-2029.
- Within the AXA-RF project "GREENLIFE", which I recently coordinated, the documentary film "Semersuaq - SEMERSUAQ - The Great Ice", produced with the filmmaker Patrizia Bruno, was awarded the (i) Trophée d'Or (category "Habitats, territoires et cadre de vie") in the 13th Deauville Green Awards (June'24, Deauville, France) and the (ii) best documentary (category "Glimpse from the world") in the 6th Andaras ad Astram Festival (July'24, Sardegna, Italy). The film compares the views of a scientist (me) and a local Inuit on the future of Greenland.
- Award for the best PhD thesis on Geomorphology (1st Prémio António de Brum Ferreira) and in Geography (2023) for my PhD student Marcelo Fernandes, from the Centro de Estudos Geográficos - Universidade de Lisboa.
- Best research article of young researchers 2022 of the Centro de Estudos Geográficos - Universidade de Lisboa for the paper entitled "Paraglacial slope failures in the Aran valley (Central Pyrenees)" published in 2020 by Fernandes, M.; Oliva, M. & Vieira, G. in the journal *Quaternary International*, 566-567: 24-38.
- 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).

1.4 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

1.5 PROFESSIONAL ACTIVITY

28-11-2022 onwards	Profesor Titular de Universidad. Department of Geography, Universitat de Barcelona.
1-1-2023 to 31-12-2023	Professeur Associé, Département de Géographie, Université Laval.
15-5-2022 to 27-11-2022	Profesor Titular de Universidad (interim). 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 Univ. Santiago de Compostela. Funded by Ministry of Education, Spain.

* Paternity leave (9-9-2021 to 29-12-2021), and 25-10-2022 to 22-2-2026).

1.6 GRANTS/FELLOWSHIPS

- Grant for “Acceso Competitivo del Laboratorio de Luminiscencia del CENIEH para dataciones por Luminiscencia”, ref. C2022180. Centro Nacional de Investigación sobre la Evolución Humana. Burgos, Spain (samples at half price).
- Grant for “Ajuts per al cofinançament per a la renovació d’equipament científic i tecnològic de recerca obsolet 2022”, Comissió de Recerca de la Facultat de Geografia i Història, Universitat de Barcelona (497 €).
- 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 2021”, 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), 27-4-2014 to 2-5-2014 (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 the “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 to 12-4-2013 (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 to 27-7-2011 (750 €).
- Grant to attend the “XI International Symposium on Antarctic Earth Sciences”. Funded by the SCAR Group on Permafrost and Periglacial Environments. Edinburgh (Scotland), 10 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 symposium. Edinburgh (Scotland), 10 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 to 16-4-2011 (1,040 €).

- Grant to participate in the Argentinean Antarctic Campaign 2010-11. Funded by the Fundação para a Ciência e a Tecnologia, Portugal (2,200 €).
- Contribution to the Catalan version of the PhD thesis. Funded by the AGAUR agency, 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 (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 (USA), 28-6-2008 to 2-7-2008 (registration and accomodation covered).

1.7 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	Geographisches Institut, University of Bern (Switzerland) – 4 months
2006	Geographisches Institut, University of Bern (Switzerland) – 2 months
2004	Centro Austral Investigaciones Científicas (CADIC-CONICET), Ushuaia (Argentina) – 1 month

1.8 FIELD WORK EXPERIENCE (OUTSIDE IBERIAN RANGES)

2025	Qaanaaq region (NW Greenland): <i>geomorphology, deglaciation, glaciers.</i>
2023	Nugssuaq Peninsula (W Greenland): <i>geomorphology, deglaciation, permafrost, soils.</i>
2022	Ilulissat region (W Greenland): <i>paleolimnology, geomorphology, deglaciation, permafrost, soils.</i>
2018-19	Zackenberglund region (NE Greenland): <i>paleolimnology, geomorphology, deglaciation, permafrost.</i>
2018	Trollaskagi peninsula (Iceland): <i>geomorphology, deglaciation, permafrost.</i>
2017	Pamir and Tien Shan (Kyrgyzstan): <i>geomorphology, deglaciation, permafrost.</i>
2014	Elephant Point, Livingston Island (Antarctica): <i>geomorphology, permafrost.</i>
2015-19	Fildes Peninsula, King George Island (Antarctica): <i>paleolimnology, geomorphology, deglaciation, permafrost.</i>
2012-16	Byers Peninsula, Livingston Island (Antarctica): <i>paleolimnology, geomorphology, deglaciation, permafrost.</i>
2012	Barton/Potter peninsulas, Peninsula, King George (Antarctica): <i>paleolimnology, geomorphology, deglaciation.</i>
2010-11	Deception Island (Antarctica): <i>geomorphology, permafrost.</i>
2010-11	Svalbard (Norway): <i>geomorphology, permafrost.</i>
2008	Whitehorse (Yukon, Canada): <i>snow, permafrost, periglacial processes.</i>
2006-08	Swiss Alps: <i>geomorphology, paleofloods, paleoclimate.</i>
2004	Tierra del Fuego (Argentina): <i>Quaternary geology, glaciations, periglacial processes.</i>

1.9 RESEARCH PROJECTS

COORDINATION (PI)

- 2026-2028 **PERMAPYRENEES-2** – *Permafrost in the Pyrenees: Assessment and Management under Climate Change*. INTERREG-POCTEFA 2021-2027, EFA191/06, European Union. PI: Dr **Marc Oliva** (1,764,745 €).
- 2025-2029 **ICREA Acadèmia**. Institució Catalana de Recerca i Estudis Avançats. Generalitat de Catalunya. PI: Dr **Marc Oliva** (200,000 €).
- 2025-2029 **PermaCOST**- COordinated and STandardized Monitoring of Permafrost Response to Climate Change. European Cooperation in Science and Technology (COST), funded under Horizon Europe, Grant No. CA24157 (national representative and member of the Management Committee). PI: Coline Mollaret.
- 2024-2028 **GRELARCTIC** - *Holocene glacial response and environmental dynamics in Greenland and Ellesmere*. Ministerio de Economía y Competitividad, Spain, PID2023-146730NB-C31. PI: Dr **Marc Oliva**, Xosé Lois Otero (390,000 €).
- 2024-2026 **PERMAPYRENEES** – *Permafrost in the Pyrenees: the changing mountain*. INTERREG-POCTEFA 2021-2027, EFA063/01, European Union. PI: Dr **Marc Oliva** (1,176,745 €).
- 2024-2026 **ISLANDSINTHEICE** – *Deglacial history and environmental consequences in west-central Greenland*. Ministerio de Ciencia, Innovación y Universidades, Consolidación Investigadora 2023, CNS2023-144040. PI: Dr **Marc Oliva** (199,991 €).
- 2021-2024 **NEOGREEN** - *Reconstruction of Neoglacial oscillations in Greenland*. Ministerio de Economía y Competitividad, Spain, PID2020-113798GB-C31. PI: Dr **Marc Oliva** (314,600 €).
- 2021-2024 **NEOARCTIC** - *Reconstruction of Neoglacial oscillations and climate variability in Greenland and Iceland*. Ministry of Science and Innovation, Spain, PID2020-113798GB-C31+ PID2020-113798GB-C32+ PID2020-113798GB-C33. Coordinated project PI: Dr **Marc Oliva** (723,600 €).
- 2022-2025 **ANTALP** - *Antarctic, Arctic and Alpine Environments*. Generalitat de Catalunya. Ajuts de Suport als Grups de Recerca, 2021 SGR 00269. PI: Dr **Marc Oliva** (40,000 €).
- 2022-2023 **CRIOPIRINEUS** - *Impacte del glaciariisme i periglaciariisme 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 **CRONOBYSERS** - *Holocene deglaciation of ice-free areas in Livingston Island (South Shetland Islands, Antarctica)*. Project of the Portuguese Polar Program (PROPOLAR), Antarctic campaign 2016-2017. Fundação para a Ciência e a Tecnologia. PI: Dr **Marc Oliva** (2,000 €+field support).
- 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** (2,000 €+field support).
- 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** (2,000 €+field support).
- 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** (2,000 €+field support).
- 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** (2,000 €+field support).

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** (2,000 €+field support).

PARTICIPATION

- 2024-2026 Laser size analyzer for the grain-size distribution of particles of geological samples. Universitat de Barcelona. Project EQC2024-008899-P. Ayudas para Adquisición de Equipamientos e Infraestructuras científico-técnicas, IPN2024C, Ministerio de Economía y Competitividad, Spain.
- 2023-2026 **THAWIMPACT** - *Antarctic Peninsula permafrost under a changing climate: sensitivity, fate and impacts*. Fundação para a Ciência e a Tecnologia, Portugal, Project 2022.06628. PI: Dr Gonçalo Vieira.
- 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.
- 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.
- 2013-2015 *Evolución del paisaje reciente de cumbres de Sierra Nevada. Interés científico de registros naturales y documentos escritos de época*. Ministerio de Economía y Competitividad, Spain, CSO2012-30681. PI: Dr Antonio Gómez-Ortiz.
- 2013-2015 **PERMANTAR-3** - *Permafrost and Climate Change in the Antarctic Peninsula*. Fundação para a Ciência e a Tecnologia, Portugal, PTDC/AAC-CLI/119463/2010. PI: Dr Gonçalo Vieira.
- 2011-2013 **FCT-CAPEs** project - *Luso-Brazilian Programme for Research on Antarctic Permafrost and Terrestrial Ecosystem Dynamics*. Fundação para a Ciência e a Tecnologia (Portugal) and Fundação Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES, Brazil), Portugal and Brazil, 4.4.1.00. PI: Dr Gonçalo Vieira (Universidade de Lisboa) and Dr Carlos Schaefer (Universidade de Viçosa).
- 2009-2013 *Landscape research and Mediterranean mountain palaeoenvironments consolidated research group*. Generalitat de Catalunya. Ajuts de Suport als Grups de Recerca, 2009 SGR 868. PI: Dr Antonio Gómez-Ortiz.
- 2011-2012 *Strategic Project of the Centre for Geographical Studies- UI 295*. Fundação para a Ciência e a Tecnologia, Portugal, PEst-OE/SADG/UI0295/2011. PI: Centre for Geographical Studies.
- 2010-2012 **ANAPOLIS** - *Analysis of polygonal terrains on Mars based on Earth analogues*. Fundação para a Ciência e a Tecnologia, Portugal, PTDC/CTE-SPA/099041. PI: Dr Pedro Pina.
- 2010-2012 *El interés científico de la documentación de época para el estudio del 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.

1.10 RESEARCH CONTRACTS

- 2025-2026 Past glacial dynamics and climate variability in Ellesmere Island and N Greenland. Contracte amb la Universitat de Laval. PI: Dr **Marc Oliva** (16,000 €).
- 2025-2026 Emprems de gel i canvi climàtic: reconstrucció del glaciarisme plistocè a la vessant meridional del Cadí (CADIGEL). Contracte amb el Parc Natural del Cadí-Moixeró. PI: Dr **Marc Oliva** (16,940 €).
- 2022-2023 Changing Greenland: Scientists in the High Arctic (GREENLIFE). 2022 AXA Research Fund Outreach Grant. PI: Dr **Marc Oliva** (8,000 €).

- 2022-2023 Caracterització geomorfològica i establiment de la cronologia del glaciariisme 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 €).

1.11 ORGANIZATION OF R+D ACTIVITIES

- Co-chair of the 8th Iberian Conference on Permafrost. Salardú, Catalonia, 26-28 June 2025.
- Chair of the 4th Conference of the Mediterranean Geoscience Union. Barcelona, 25-27 November 2024.
- Chair of the 6th European Conference on Permafrost. Puigcerdà, Catalonia, 19-24 June 2023.
- Convener of the session “Periglacial geomorphology” at the 6th European Conference on Permafrost. Puigcerdà (Catalonia), 19-24 June 2023.
- Co-convener of the session “Periglacial and paraglacial environments in Antarctica” within the 6th European Conference on Permafrost. Puigcerdà (Catalonia), 19-24 June 2023.
- Co-convener of the session “Surficial Processes-Geomorphology, Chemical Weathering, Exposure Age Dating, and Permafrost Dynamics” at the 10th SCAR Open Science Conference. India (online), 1-10 August 2022.
- Co-convener of the session “Arctic Glaciers and Ice Sheets: Past, Present and Future” at the Arctic Science Summit Week 2021. Portugal (online), 19-26 March 2021.
- Co-convener of the session “Past environments in permafrost regions/Methods to measure, monitor, and sample cryosols and permafrost” at 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” at 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” at the European Meteorological Society, EMS Annual Meeting 2018. Budapest (Hungary), 5-9 September 2018.
- Convener of the session “Past environments in permafrost regions” at the 5th European Conference on Permafrost. Chamonix (France), 23 June - 1 July 2018.
- Co-convener of the session “Reconstructing past environmental change in the Polar Regions” at the POLAR2018. Davos (Switzerland), 15-26 June 2018.
- Convener of the session “Soils in cold-climate regions” at the European Geosciences Union General Assembly 2017. Vienna (Austria), 23-28 April 2016.
- Convener of the session “Criosfera y Cambio Climático” at 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” at the 1st International Conference on Research for Sustainable Development in Mountain Regions. Bragança (Portugal), 5-7 October 2016.
- Convener of the session “Soils in polar, boreal and mountain regions” at the European Geosciences Union General Assembly 2016. Vienna (Austria), 17-22 April 2016.
- Convener of the session “Soils in polar, boreal and mountain regions” at the European Geosciences Union General Assembly 2015. Vienna (Austria), 12-17 April 2015.
- Co-convener of the session “Soil as a Record of the Past: Landscape evolution by natural/cultural processes” at the European Geosciences Union General Assembly 2015. Vienna (Austria), 12-17 April 2015.
- Co-convener of the session “Permafrost-affected soils of high latitudes in a changing world” at the conference The Earth Living Skin: Soil, Life and Climate Change. Nova Yardinia (Italy), 22-25 September 2014.
- Convener of the session “Soils in polar and boreal regions” at the European Geosciences Union General Assembly 2014. Vienna (Austria), 27 April-2 May 2014.
- Convener of the session “Limnological Processes in permafrost environments” at the Fourth European Conference on Permafrost. Évora (Portugal), 18-21 June 2014.
- Convener of the session “Soils in cold regions” at the European Geosciences Union General Assembly 2013. Vienna (Austria), 7-12 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, 15-1-2007.
- Organization of the “1st scientific meeting of the Landscape laboratory”. Universitat de Barcelona. Barcelona, 17-6-2007.

1.12 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, Turkish Journal of Earth Sciences.

- 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.*
- Referee for Spanish calls for research projects (Agencia Nacional de Evaluación y Prospectiva), since September 2015.
- Referee for Czech calls for research projects and PhD fellowships, since July 2015.
- Referee for Polish calls for research projects, since March 2017.
- Referee for the National Science and Engineering Research Council of Canada for research projects, since December 2017.
- Referee and member of the panel of the call for research projects the Research Council of Norway, since July 2019.
- Referee for the French Polar Institute calls for research projects, since August 2020.
- Referee for the SCAR Fellowships scheme of the Scientific Committee on Antarctic Research, 2020.
- 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 2021.
- Referee and member of the panel of the call for research projects the Research Council of Slovakia, since July 2021.
- Referee and member of the panel for The Transnational Access Call for Proposals 2024 of the Polar Research Infrastructure Network (POLARIN), European Polar Board, since November 2024.
- Referee for the organization of training school grants within the European Geosciences Union, 2014.
- Referee for grants for the program “Nova geração de cientistas polares of the Caixa Geral” (Portugal), 2012.

1.13 MEMBER OF DISSERTATION COMMITTEES

PhD thesis

- PhD candidate: Eñaut Izaguirre, Universidad del País Vasco: "Evolution of glaciers and glacial lakes in response to climate change in the Cordillera Darwin and Cloue Icefields (Tierra del Fuego, South America)", Bilbao, 10-11-2025.
- PhD candidate: Ixeia Vidaller, Universidad de Zaragoza: "Past, present and future of the Ésera glacier. Paleoenvironmental evolution and recent deglaciation", Zaragoza, 16-1-2025.
- PhD candidate: Rodrigo Osorio Serrano, Universitat de Barcelona: "Holocene vegetational changes in Northeastern Greenland and its link to North Atlantic Oscillation/Arctic Oscillation", 5-7-2024.
- PhD candidate: Lukas Rettig, Università degli studi di Padova (Italy): "The Equilibrium Line Altitude (ELA) in the southern fringe of the Alps during the Last Glacial Maximum", 23-1-2024, rapporteur.
- PhD candidate: Manuel Gómez Lende, University of Valladolid: "Las cuevas heladas en Picos de Europa: clima, morfologías y dinámicas", 12-7-2015, rapporteur.
- PhD candidate: Jesús Alcalá Reygosa, Complutense University of Madrid: "La evolución volcánica, glacial y periglacial del complejo volcánico Ampato (Sur de Perú)", 12-11-2014.
- PhD candidate: Jesús Ruiz Fernández, University of Oviedo: "Las formas de modelado glacial, periglacial y fluviotorrencial del macizo Occidental de los Picos de Europa (Cordillera Cantábrica)", 4-1-2013.

MSc thesis

- MSc candidate: João Nunes, Universidade de Lisboa (Portugal): "Evolução geomorfológica da Nave de Santo António (Serra da Estrela) através de técnicas geomorfológicas, sedimentológicas e geofísicas", 27-11-2023.
- MSc candidate: Sara Ramos, Universidade de Lisboa (Portugal): "Spatial modelling of the Temperature at the Top of Permafrost in Cierva Point (Antarctic Peninsula)", 9-11-2018.

1.14 MEMBER OF EDITORIAL BOARDS

- Journal Boletín de la Asociación Española de Geografía, since July'22.
- Journal Mediterranean Geoscience Reviews, since February'19.
- Journal Land Degradation & Development, from 2016 to 2024.
- Journal Solid Earth, from 2015 to 2022.
- Journal Visnyk Geology, Lviv University (Ukraine), from 2013 to 2019.
- Journal Baltic environment, Mykolas Romeris University (Lithuania), from 2013 to 2018.
- EGU-SSSD Newsletter of European Geosciences Union, from 2012 to 2015.
- PYRN Newsletter (Permafrost Young Researchers Network), from 2012 to 2014.

1.15 MEMBER OF SCIENTIFIC ASSOCIATIONS

IPA (International Permafrost Association), ANTPAS (Antarctic Permafrost, Periglacial Environments and Soils of the SCAR), EGU (European Geosciences Union), MRI (Mountain Research Initiative), SCG (Societat Catalana de Geografia), ACOM (Associació Catalana d'Observadors Meteorològics).

1.16 REPRESENTATION IN INTERNATIONAL ORGANIZATIONS

- Member of the “Proposta per un Parc Geològic de Cerdanya”, from January 2026 onwards.
- Member of the International Advisory Committee of the International Permafrost Association, from November 2024 onwards.
- Co-chair of the Action Group Antarctic Permafrost, Periglacial Environments and Soils (ANTPAS) of the “Scientific Committee on Antarctic Research (SCAR)”, from January 2018 to June 2023.
- National Representative of the International Permafrost Association, 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.

1.17 MEMBER OF THE SCIENTIFIC COMMITTEE IN CONFERENCES

- “12th Turkey Quaternary Symposium (TURQUA-2026)”. Turkish Quaternary Association. Istanbul (Turkey), 7–9 December 2026.
- “I Reunión Iberoamericana sobre Patrimonio Geomorfológico”. Santiago de Compostela (Spain), 12-15th September 2024.
- “10th International Conference on Geomorphology”. Coimbra (Portugal), 12-16th September 2022.
- “Southern Hemisphere Conference on Permafrost”. 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.

1.18 MEMBER OF THE ORGANIZING COMMITTEES IN CONFERENCES

- “8th Iberian Conference on Permafrost”. Salardú, Catalonia, 26-28 June 2025.
- “4th Conference of the Mediterranean Geoscience Union”. Barcelona, 25-27 November 2024.
- “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), 30 June to 10 July 2017.
- “VI Iberian Conference of the 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 (Catalonia), 25-27th June 2013.

1.19 RESEARCH STATISTICS

Google Scholar (20-3-2026)

- Total citations: 7237.
- H index = 39; H index (since 2020) = 27.
- I10 index = 123, I10 index (since 2020) = 96.

Scopus (20-3-2026)

- Total citations: 5023.
- H index = 34.
- Total publications: 177.

2.- PUBLICATIONS

2.1 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.

2.2 ARTICLES IN INTERNATIONAL PEER-REVIEWED JOURNALS

submitted

Oliva, M.; Bonsoms, J.; Palacios, D.; Fernández-Fernández, J. M.; Antoniades, D.; Schimmelpfennig, I.; González-Díaz, B.; Goyanes, G.; Navarro, F.; Ruiz-Fernández, J.; Vieira, G.; Vorrath, M. E.; Sarikaya, M. A.; Çiner, A.; Leger, T.; Girault, I.; ASTER Team (submitted). Potentially unprecedented glacial demise in the Antarctic Peninsula region since the Last Glacial Maximum. *Nature Geoscience*.

Bonsoms, J.; González, S.; Wever, N.; Fettweis, X.; **Oliva, M.**; López-Moreno, J.I. & Lehning, M. (submitted). Recent trends in late-summer extreme melting on the Greenland Ice Sheet. *Journal of Geophysical Research*.

Çiner, A.; Turu, V.; Oliva, M.; Sarikaya, M. A.; Candaş, A.; Altınay, O.; Ventura, J.; Yıldırım, C.; Görüm, T.; Vidal-Romani, J.-R.; Carrasco, R. M.; Wilken, K. M.; Seong, Y. B.; Yu, B. Y. (submitted). Last Glacial Termination of Andorra, Southeastern Pyrenees. *Quaternary Science Reviews*.

Oliva, M.; Ventura, J.; Çiner, A.; Sarikaya, M.A; Bonsoms, J. (submitted). Deglaciation of the southern slope of the Cadí massif, Eastern Pyrenees. *Quaternary Science Reviews*.

Andrés, N.; Palacios, D.; Fernández-Fernández, J.M.; Sæmundsson, Þ.; Schimmelpfennig, I.; Burchardt, S.; Tanarro, L.M.; **Oliva, M.**; Zamorano, J.J.; Quijada, I.; Melón-Nava, A.; & ASTER Team (submitted). Rock avalanches triggered glacier advances in a volcanic caldera: new insights from cosmic-ray exposure dating, Dyrfjöll (Northeast Iceland). *Scientific Reports*.

Pérez-Ramos, C.; **Oliva, M.**; Garcia-Oteyza, J.; Ventura, J. (submitted). El permafrost de montaña en los Pirineos: estado actual y retos de investigación. *Pirineos*.

Bonsoms, J.; **Oliva, M.** & López-Moreno, J.I. (reviewed). Differential responses of Central-Western Greenland Ice Sheet and peripheral glaciers to recent climate trend. *Journal of Glaciology*.

2026

Ventura, J.; **Oliva, M.**; Montserrat, O.; Espín-López, P. & Esteban, P. (2026). The distribution of rock glaciers in the Alt Pirineu Natural Park. *Mediterranean Geoscience Reviews*.

Gómez-Pazo A, Pérez-Alberti A, García-Hernández C, De Pablo, M.A., **Oliva, M.**, Goyanes, G., Ruíz-Fernández, J. (2026). Processes and landforms on the rocky coast of Livingston Island (South Shetland Islands, Maritime Antarctica). *Antarctic Science*, 1-13. doi:10.1017/S0954102026100583.

Oliva M.; Serrano, E.; López-Moreno, J.I.; Garcia-Oteyza, J.; Bonsoms, J.; Pérez, C.; Medialdea, A.; Otero, X.L.; Giralt, S.; Antoniades, D.; Pla-Rabes, S.; Fernandes, M. & Jomelli, V. (2026). Holocene glacial evolution in Quingaassarsuaq Peninsula (Central West Greenland). *The Holocene*.

Bonsoms, J.; González, S.; Fettweis, X.; Lemus-Canovas, M.; **Oliva, M.** & López-Moreno, J.I. (2026). Record-breaking Greenland Ice Sheet melt events under recent and future climate. *Nature Communications*, 10.1038/s41467-026-69543-5.

2025

Ventura, J.; **Oliva, M.**; Fernández-Fernández, J.M.; Fernandes, M.; Palacios, D.; Leger, T.; Jomelli, V. & ASTER TEAM (2025). Glacial - periglacial transition in the Ratera cirque (central Pyrenees) from the Younger Dryas to the Holocene. *Quaternary Science Advances*, 20: 100307.

Çiner, A.; Yıldırım, C.; Sarikaya, M.A.; Klanten, Y.; **Oliva, M.**; Bae Seong, Y. & Yu, B.Y. (2025). Tracing the peak of Neoglacial Cooling on the Western Antarctic Peninsula: The Little Ice Age Moraines of Marguerite Bay. *Quaternary Science Reviews*, 369: 109641.

Alonso, E.; Bonsoms, J., **Oliva, M.** & Revuelto, J. (2025). Snow processes and periglacial dynamics in mountain environments. *Mediterranean Geoscience Reviews*, 7: 459-461.

Rubio, A.; **Oliva, M.** & Ventura, J. (2025). Glacial and periglacial geomorphology of the Boí valley (Central Pyrenees). *Mediterranean Geoscience Reviews*, 7: 473-483.

Jomelli, V.; Charton, J.; Fernández-Fernández, J.M.; Braucher, R.; Swingedouw, D.; Al Yaari, A.; **Oliva, M.**; Gairoard, S.; García-Oteyza, J. & Aster TEAM (2025). Lateglacial and Holocene mountain glacier fluctuations near Cape Farewell South Greenland inferred from ¹⁰Be moraine dating. *Journal of Quaternary Science*, doi: 10.1002/jqs.70015.

Pérez-Fernández, B.; Caza, J.; De la Cerda, M.C.; Pérez-Alberti, A.; Viñas, L.; **Oliva, M.**; Ruíz-Fernández, J.; García-Hernández, C. & Otero, X.L. (2025). Occurrence and sources of pollutants in the soils of penguin colonies in the South Shetland Islands, North-West coast of the Antarctic Peninsula. *Geoderma*, 461: 117482.

Bonsoms, J.; **Oliva, M.**; Fettweis, X.; González, S. & López-Moreno, J.I. (2025). Hotspots of extreme runoff across Arctic land ice. *Environmental Research Letters*, doi: 10.1088/1748-9326/adfc80.

Oliva, M.; Ventura, J.; Turu, V.; Ros, X.; Echevarría, A.; Çiner, A.; Sarıkaya, M.A.; Pérez-Ramos, C.; García-Oteyza, J.; Bonsoms, J.M.; Monserrat, O.; Espín, O.; Palacios, D.; Fernández-Fernández, J.M.; Serrano, E.; López-Moreno, J.I.; Fernandes, M.; Esteban, P.; Bookhagen, B.; Winkler, S. & Binnie, S.A. (2025). Climate warming and the persistence of buried ice in the Pyrenees: multi-proxy evidence from Clots de la Menera Cirque (Andorra). *Quaternary Science Reviews*, 368: 109564.

Fernandes, M.; **Oliva, M.** & Vieira, G. (2025). Glacial chronology and climate implications since the Penultimate Glacial Cycle in the Upper Garonne Basin, Central Pyrenees. *Mediterranean Geoscience Reviews*, doi: 10.1007/s42990-025-00181-7.

Ventura, J.; **Oliva, M.**; Fernández-Fernández, J.M.; Fernandes, M.; Palacios, D.; Leger, T.; Jomelli, V.; Grau O. & ASTER TEAM (2025). Glacial and periglacial dynamics during the last deglaciation in the Bonabé Valley (Marimanha Massif), central southern Pyrenees. *Geomorphology*, 482: 109801.

Bonsoms, J.; **Oliva, M.**; López-Moreno, J.I. & Juvet, G. (2025). Tracing ice loss from the Late Holocene to the future in eastern Nuussuaq, central western Greenland. *The Cryosphere*, 19: 1973-1993.

Bonsoms, J.; López-Moreno, J.I.; Lemus-Cánovas, M. & **Oliva, M.** (2025). Future winter snowfall and extreme snow events in the Pyrenees. *Atmospheric Research*, 315: 107912.

Cameron, E.; **Oliva, M.** & Antoniades, D. (2025). High Arctic lakes reveal accelerating ecological shifts linked to twenty-first century warming. *Scientific Reports*, 15:77.

Antoniades, D.; Klanten, Y.; Cameron, E.; Garcia-Oteyza, J.; **Oliva, M.** & Vincent, W.F. (2025). Evidence of summer thermal stratification in extreme northern lakes. *Arctic Science*, doi: 10.1139/AS-2023-0037.

2024

Noetzli, J.; Isaksen, K.; Barnett, J.; Christiansen, H. H.; Delaloye, R.; Etzelmüller, B.; Farinotti, D.; Galleman, T.; Guglielmin, M.; Hilbich, C.; Hoelzle, M.; Lambiel, C.; Magnin, F.; **Oliva, M.**; Paro, L.; Pogliotti, P.; Riedl, C.; Schoeneich, P.; Valt, M.; Vieli, A. & Phillips, M. (2024). Enhanced warming of European mountain permafrost in the early 21st century. *Nature Communications*, 15: 10508.

Oliva, M.; Palacios, D.; Sancho-García, L.; Fernández-Fernández, J.M.; Çiner, A.; Fernandes, M.; García-Oteyza, J.; Sarıkaya, M.A.; Serrano, E.; Kaveh-Firouz, A.; Pérez-Alberti, A.; Schimmelpfennig, I.; Vieira, G.; Antoniades, D.; Bonsoms, J. & ASTER Team (2024). The origin of the ice-free areas of the Hurd Peninsula (Livingston Island, Antarctica). *Quaternary Science Reviews*, 344: 108991.

García-Oteyza J.; **Oliva M.**, Palacios D., Fernández-Fernández J. M., Schimmelpfennig I., Fernandes M., Giralt S., Antoniades D., Andrés, N., Jomelli, V. (2024). Lateglacial and Holocene chronology of climate-driven postglacial landscape evolution in northeast Greenland. *Boreas*, 54 (1): 105-124.

Çiner, A.; **Oliva, M.**; Ventura, J.; Sarıkaya, M.A.; Candaş, A.; Palacios, D.; Altınay, O.; Binnie, S.A. & Castañeda, N. (2024). Late Pleistocene Glacial chronology and paleoclimate of the Cadí massif, SE Pyrenees, Spain: Insights from ³⁶Cl cosmogenic surface exposure dating and glacier modelling. *Quaternary Science Reviews*, 345: 109020.

Bonsoms, J.; **Oliva, M.** & López-Moreno, J.I. & Fettweis, X. (2024). Rising extreme meltwater trends in Greenland ice sheet (1950 – 2022): surface energy balance and large-scale circulation changes. *Journal of Climate*, 37: 4851–4866.

Fernández-Fernández, J.M.; Oliva, M.; Ribolini, A. & Sæmundsson, Þ. (2024). Cryosphere degradation in a changing climate. *Land Degradation & Development*, 35 (15): 4359-4363.

Bonsoms, J.; López-Moreno, J.I.; Alonso-González, E.; Deschamps-Berger, C. & **Oliva, M.** (2024). Rain-on-snow responses to warmer Pyrenees: a sensitivity analysis using a physically based snow hydrological model. *Natural Hazards and Earth System Sciences*, 24: 245–264.

González-Herrero, S.; Navarro, F.; Pertierra, L.; **Oliva, M.**; Dadic, R.; Peck, L. & Lehning, M. (2024). Southward migration of the zero-degree isotherm latitude over the Southern Ocean and the Antarctic Peninsula: Cryospheric, biotic and societal implications. *Science of the Total Environment*, 912: 168473.

Fernandes, M.; **Oliva, M.**; Vieira, G.; Palacios, D.; Fernández-Fernández, J.M.; Garcia-Oteyza, J.; Schimmelpfennig, I.; ASTER Team & Antoniades, D. (2024). Geomorphological record of the glacial to periglacial transition from the Bølling–Allerød to the Holocene in the Central Pyrenees: the Lócampo cirque in the regional context. *Boreas*, 53(1): 71-87.

García-Oteyza, J.; Giralt, S.; Pla-Rabes, S.; Antoniades, D.; **Oliva, M.**; Ghanbari, H.; Osorio-Serrano, R. & Palacios, D. (2024). A ~5000 year multiproxy record of summer climate in NE Greenland. *Science of the Total Environment*, 906: 167713.

Bonsoms, J.; **Oliva, M.**; Alonso-González, E.; Revuelto, J. & López-Moreno, J.I. (2024). Impact of climate change on snowpack dynamics in coastal Central-Western Greenland. *Science of the Total Environment*, 913: 169616.

2023 and before

Hrbáček, F.; **Oliva, M.**; Hansen, C.; Balks, M.; O'Neill, T.; de Pablo, M.A.; Vieira, G.; Ponti, S.; Ramos, M.; Abramov, A.; Pastirikova, L.; Guglielmin, M.; Goyanes, G.; Francellino, M. Schaefer, C. & Lacelle, D. (2023). Active layer and permafrost thermal regimes in the ice-free areas of Antarctica. *Earth-Science Reviews*, 242: 104458.

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2.7 DISSEMINATION ARTICLES, MASS MEDIA, REPORTS, VIDEOS

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

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

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

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

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

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

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

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

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

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

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

3.2 INVITED LECTURES

Oliva, M. (2025). Permafrost als Pirineus: el cas de Cerdanya. *2a Jornada de Geologia i Paleontologia de Cerdanya i del Pirineu*. Grup de Recerca de Cerdanya. Puigcerdà, 27-9-2025.

Oliva, M. (2025). El glaciariisme a la serra del Cadí. III Jornada de recerca i conservació, Parc Natural del Cadí-Moixeró, La Seu d'Urgell, 26-9-2025.

Oliva, M. (2024). The changing cryosphere. Perspectives from the Mediterranean region. Annual conference of the Mediterranean Geoscience Union 2024. Barcelona, 25-11-2024.

Oliva, M. (2024). Permafrost in the Pyrenees: the changing mountain. International Network for Alpine Research Catchment Hydrology 2024. Zhangye (China), 16-10-2024.

Oliva, M. (2023). Situació de la criosfera: evidències i incerteses. Grup d'Experts en Canvi Climàtic de Catalunya. Barcelona, 10-11-2023.

Oliva, M. (2023). Canvi climàtic. Registre i acció. Participació en els Geodebats de la Facultat de Ciències de la Terra, Universitat de Barcelona 28-9-2023. <https://www.youtube.com/watch?v=1ylzIPjNnho&t=1657s>

Oliva, M. (2022). Glacial oscillations in the Antarctic Peninsula region since the Last Glacial Maximum. Meeting of the Quaternary Symposium of Turkey Istanbul Technical University. Istanbul (Turkey), 4-11-2022.

Oliva, M. (2022). Spatial and temporal patterns of glacial oscillations in the Antarctic Peninsula region since the Last Glacial Maximum. Polish Association of Geomorphologists. 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 Glaciar. 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 glaciario*, Geoparque As Montañas do Courel. Courel (Spain), 19-10-2018.
- Oliva, M.** (2017). Permafrost degradation and connectivity. *Connectivity in Boreal and Polar Environments – COST Action ES1306*. Vilnius (Lithuania), 11-10-2017.
- Oliva, M.** (2017). Deglaciation of the ice-free areas in the Maritime Antarctic. *Antarctic campaign 2016-2017*. Spanish research station Juan Carlos I, Livingston (Antarctica), 20-2-2017.
- Oliva, M.** (2016). Unveiling some climate myths. *Noite Europeia dos Investigadores*. Pavilhão do Conhecimento, Lisbon (Portugal), 29-10-2016.
- Oliva, M.** (2016). Late Quaternary environments in the highest Iberian mountain ranges since the Last Glaciation. *Students in polar and alpine research Conference 2016*. Masaryk University, Brno (Czech Republic), 25-4-2016.
- Oliva, M.** (2015). Permafrost en el Ártico. Implicaciones ambientales y socio-económicas. *Frío extremo. De Iberia a los Polos y Marte. Ciencia e investigación en torno al permafrost*. Universidad de Valladolid, Valladolid (Spain), 20-5-2015.
- Oliva, M.** (2015). Geomorfología y suelo helado en Sierra Nevada. *Frío extremo. De Iberia a los Polos y Marte. Ciencia e investigación en torno al permafrost*. Universidad de Valladolid, Valladolid (Spain), 20-5-2015.
- Oliva, M.** (2015). Deglaciação das áreas livres de gelo na Antártida Marítima. O exemplo de Byers. *Homenagem ao Prof. Luís Alberto Mendes-Victor*. Programa Polar Português, Lisbon (Portugal), 8-5-2015.
- Oliva, M.** (2015). Overview on palaeoenvironments in polar and mountain Iberian regions. *Students in Polar Research Conference 2015*. Masaryk University, Brno (Czech Republic), 20-4-2015.
- Oliva, M.** (2014). Holocene environments in Byers and Fildes peninsulas (Maritime Antarctica). *Workshop Antarctic training 2014-2015, Portuguese Polar Program*. Lisbon (Portugal), 15-11-2014.
- Oliva, M.** (2014). Field work logistics in Antarctica. Problems and opportunities. Workshop “Successful fieldwork - an APECS and PYRN panel discussion”, *European Geosciences Union, General Assembly 2014*. Vienna (Austria), 30-4-2014.
- Oliva, M.** (2013). Holocene environmental change in the Maritime Antarctic. Interactions between permafrost and lacustrine environment. *Workshop Antarctic training 2013-14, Portuguese Polar Program*. Lisbon (Portugal), 15-11-2013.
- Oliva, M.** (2012). Evolução dos ambientes com permafrost das ilhas Shetland do Sul no Holocénico Superior - Antártica Marítima. *Workshop Portuguese Polar Program*. Instituto Hidrográfico Portugal. Lisbon (Portugal), 11-6-2012.
- Oliva, M.** (2011). Antarctic campaign HOLOANTAR 2011-2012. Holocene environmental change in the Maritime Antarctic. Interactions between permafrost and the lacustrine environment. *1st Portuguese Antarctic meeting for field work preparation. Portuguese Polar Program*. Lisbon (Portugal), 17-11-2011.
- Oliva, M.**; Gómez-Ortiz, A.; Salvador-Franch, F. & Salvà-Catarineu, M. (2011). Contribución al conocimiento de fases frías en la Hoya del Mulhacén (Sierra Nevada) durante el Holoceno Superior. *Seminario sobre glaciario ibérico. XIII Reunión Nacional de Cuaternario, Asociación Española para el Estudio del Cuaternario*. Andorra la Vella (Andorra), 5-7-2011.
- Oliva, M.** (2010). Climate variability and periglacial processes during the Mid-Late Holocene in Sierra Nevada (Southern Iberian Peninsula). *Encontros de Meteorologia. Centro de Geofísica da Universidade de Lisboa, Instituto Dom Luiz*. Lisbon (Portugal), 29-3-2010.
- Oliva, M.** (2010). Holocene landscape evolution in Sierra Nevada (Southern Iberian Peninsula). *Seminar of the Antarctic Environments and Climate Change Research Group*. Lisbon (Portugal), 19-5-2010.
- Oliva, M.** (2007). The Pyrenees glaciers: from the LIA to the present. *Palaeo-Geology seminar* (Geographisches Institut, University of Bern). Bern (Switzerland), 12-12-2007.
- Oliva, M.** (2007). Holocene alpine environments in Sierra Nevada (Andalusia, Spain). *Palaeo-Geology seminar* (Geographisches Institut, University of Bern). Bern (Switzerland), 7-12-2007.
- Oliva, M.** (2007). Reconstrucció paleoambiental holocena de Sierra Nevada. Avenços preliminars. *1st Scientific meeting of the Landscape Service of the Universitat de Barcelona*. Barcelona, 6-6-2007.

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

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

Oliva, M.; Palacios, D.; García-Sancho, L.; Fernández-Fernández, J.M.; Çiner, A.; Fernandes, M.; García-Oteyza, J.; Sarikaya, M.A.; Serrano, E.; Kaveh-Firouz, A.; Pérez-Alberti, A.; Schimmelpfennig, I.; ASTER TEAM, Antoniades, D. (2024). A reconstruction of the deglaciation of Hurd Peninsula (Livingston Island, Antarctica): Insights from multiple dating approaches. Libro de resúmenes del X Simposio de Estudios Polares. Salamanca (Spain), 15-5-2024.

Oliva, M.; Gómez-Ortiz, A.; Palacios, D.; Salvador-Franch, F.; Ramos, M.; Sanjosé-Blasco, J.J.; Fernandes, M.; Fernández-Fernández, J.M.; Galindo-Zaldívar, J.; García-Oteyza, J.; González, L.; Hauck, C.; Martín-Díaz, J.; Nofre, J.; Sanz de Galdeano, C. & Tanarro, L.M. (2023). Past and present-day periglacial environments in the Sierra Nevada, south Spain. *6th European Conference on Permafrost (EUCOP 2018)*. Puigcerdà (Catalonia), 20-6-2023.

Oliva, M.; Serrano, E.; López-Moreno, J.I.; Ventura, J.; Echeverría, A.; Turu, V. & Grau, O. (2023). Towards improving permafrost monitoring in the Pyrenees. *6th European Conference on Permafrost (EUCOP 2018)*. Puigcerdà (Catalonia), 20-6-2023.

Oliva, M.; García-Oteyza, J.; Palacios, D.; Fernández-Fernández, J.M.; Schimmelpfennig, I.; Giralt, S.; Antoniades, D.; Pla-Rabes, S.; Fernandes, M.; Andrés, N.; Jomelli, V. & ASTER Team (2023). Deglaciation patterns and climate variability in NE Greenland. *Greenland Ice Sheet Stability – Lessons from the Past*. University of Bergen, April 19-21, 2023.

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.; Sarikaya, M.A.; Serrano, E.; Urdea, P.; Valcárcel, M.; Woodward, J. & Yıldırım, C. (2018). The existence of permafrost conditions in the Mediterranean basin since the Last Glaciation. *XV Reunión de la Sociedad Española de Geomorfología*. Palma de Mallorca (Spain), 11-14th September 2018.

Oliva, M.; Antoniades, D.; Giralt, S.; Granados, I.; Palacios, D.; Pla-Rabes, S.; Ruiz-Fernández, J.; Sanjurjo, J.; Toro, M.; Vieira, G. (2018). Reconstructing the deglaciation of ice-free environments in the Antarctic Peninsula: recent findings and new perspectives. *POLAR2018*. Davos (Switzerland), 23-6-2018.

Oliva, M.; Vieira, G.; Ruiz-Fernández, J.; Palacios, D.; Fernández-Fernández, J.M. & Schimmelpfennig, I. (2016). CRONOBYSERS - Holocene deglaciation of ice-free areas in Livingston Island (South Shetland Islands, Antarctica). Meeting of the Portuguese Polar Program (PROPOLAR), Antarctic campaign 2016-2017. Fundação para a Ciência e a Tecnologia (FCT). Lisbon (Portugal), 28-10-2016.

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

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

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

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

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

- Oliva, M.**; Ruiz-Fernández, J. & Vieira, G. (2015). Active layer dynamics in three sites with contrasted topography in the Byers Peninsula (Livingston Island, Antarctica). *European Geosciences Union, General Assembly 2015*. Vienna (Austria), 13-5-2015.
- Oliva, M.** & Ruiz-Fernández (2014). Present-day paraglacial processes in Elephant Point (Livingston Island, Antarctica). *IV Conferência Portuguesa das Ciências Polares*. Porto (Portugal), 31-10-2014.
- Oliva, M.** & Ruiz-Fernández, J. (2014). Paraglacial processes in a recently deglaciated Antarctic environment (Elephant Point, Livingston Island). *Ecology of Glacier Forelands*. Torino (Italy), 18-9-2014.
- Oliva, M.** & Ruiz-Fernández, J. (2014). Geomorphological processes in the ice-free area of Elephant Point (Livingston Island, South Shetland). *2014 SCAR Open Science Conference*. Auckland (New Zealand), 25-8-2014.
- Oliva, M.**; Gómez-Ortiz, A.; Salvador-Franch, F.; Salvà-Catarineu, M.; Palacios, D.; Tanarro, L. & Schulte, L. (2014). About the existence of permafrost conditions in the high lands of Sierra Nevada. In: Vieira, G., Pina, P., Mora, C., Correia, A. (Eds). Book of abstracts of the 4th European Conference on Permafrost, 20-6-2014.
- Oliva, M.**; Gómez-Ortiz, A.; Salvador-Franch, F. & Salvà-Catarineu, M. (2014). The role of snow cover in ground thermal conditions in three sites with contrasted topography in Sierra Nevada (Spain). *European Geosciences Union, General Assembly 2014*. Vienna (Austria), 30-4-2014.
- Oliva, M.**; Antoniades, D.; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S. & Vieira, G. (2014). Holocene deglaciation of Byers Peninsula (Livingston Island, Maritime Antarctica) inferred from lake records. *European Geosciences Union, General Assembly 2014*. Vienna (Austria), 28-4-2014.
- Oliva, M.**; Antoniades, D.; Giralt, S.; Granados, I.; Toro, M. & Pla-Rabes, S. (2014). Holocene deglaciation of Byers Peninsula (Livingston Island, Maritime Antarctica) inferred from lake records. *THAW 2014 - THERMOKARST AQUATIC ECOSYSTEMS WORKSHOP: FRESHWATER ECOSYSTEMS IN CHANGING PERMAFROST LANDSCAPES*. Québec city (Canada), 13-3-2014.
- Oliva, M.**; Antoniades, D.; Giralt, S.; Agrela, J.; Granados, I.; Pla-Rabes, S.; Toro, M. & Vieira, G. (2013). The Holocene deglaciation of Barton Peninsula (King George, Antarctica) based on lacustrine records. *IV Conferência Portuguesa das Ciências Polares*. Faro (Portugal), 31-10-2013.
- Oliva, M.**; Gómez-Ortiz, A.; Salvador-Franch, F. & Salvà-Catarineu, M. & Vidal, J. (2013). The use of the Schmidt hammer as a complementary tool for cosmogenic dating in Sierra Nevada (Southern Spain). *Proceedings of the 8th International Conference on Geomorphology*. International Association of Geomorphologists. Paris (France), 30-8-2013.
- Oliva, M.**; Vieira, G.; Mora, C.; Trindade, A.; Agrela, J.; Batista, V.; Correia, A.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Toro, M.; Antoniades, D.; Galán, L.; Giralt, S.; Granados, I.; Pla-Rabes, S. & Serrano, E. (2013). The HOLOANTAR project: Holocene environmental change in the Maritime Antarctic. Interactions between permafrost and the lacustrine environment. *European Geosciences Union, General Assembly 2013*. Vienna (Austria), 12-4-2013.
- Antoniades, D.; **Oliva, M.**; Giralt, S.; Granados, I.; Toro, M.; Pla-Rabes, S.; Vieira, G.; Mora, C.; Trindade, A.; Agrela, J.; Batista, V.; Correia, A.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Galán, L.; Ruiz-Fernández, J. & Serrano, E. (2013). Evolución ambiental holocena de la Península Byers. Proyecto HOLOANTAR, primera campaña de campo. *IV Iberian Conference of the International Permafrost Association*. Vall de Núria (Catalonia), 26-6-2013.
- Gómez-Ortiz, A.; **Oliva, M.**; Palacios, D.; Salvador-Franch, F. & Salvà-Catarineu, M. (2013). Ambientes morfogénicos fríos posteriores a la última glaciación en los paisajes de cumbres de Sierra Nevada. Estado del arte. *IV Iberian Conference of the International Permafrost Association*. Vall de Núria (Catalonia), 26-6-2013.
- Oliva, M.**; Neves, M.; Vieira, G.; Pina, P.; Cardoso, M. & Freitas, C. (2013). Late Holocene development of ice-wedge polygon terrain in Adventalen valley (Svalbard) based on sedimentological evidences. *European Geosciences Union, General Assembly 2013*. Vienna (Austria), 12-4-2013.
- Oliva, M.**; Neves, M.; Vieira, G.; Pina, P.; Cardoso, M.; Jorge, M. & Freitas, C. (2012). Late Holocene development of ice-wedge polygon terrain in Adventalen valley (Svalbard). *IV Conferência Portuguesa das Ciências Polares*. Lisbon (Portugal), 19-10-2012.
- Oliva, M.**; Vieira, G.; Mora, C.; Trindade, A.; Agrela, J.; Batista, V.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Toro, M.; Antoniades, D.; Galán, L.; Giralt, S.; Granados, I. & Pla-Rabes, S. (2012). Understanding present and past interactions between permafrost and climate in the Maritime Antarctica. The HOLOANTAR project. *IV Conferência Portuguesa das Ciências Polares*. Lisbon (Portugal), 19-10-2012.
- Oliva, M.**; Gómez-Ortiz, A.; Salvador-Franch, F. & Salvà-Catarineu, M. (2012). Balance and conclusions of monitoring present-day solifluction processes in Sierra Nevada during the period 2005-2011. *XII Reunión Nacional de Geomorfología*. Santander (Spain), 20-9-2012.
- Oliva, M.**; Vieira, G.; Mora, C.; Trindade, A.; Agrela, J.; Batista, V.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Toro, M.; Antoniades, D.; Galán, L.; Giralt, S.; Granados, I. & Pla-Rabes, S. (2012). The HOLOANTAR project: Holocene environmental change in the Maritime Antarctic. Holocene climate variability in a maritime permafrost environment (Byers Peninsula, Livingston Island) inferred from lacustrine records. *Scientific Committee on Antarctic Research Conference*. Portland (USA), 16-7-2012.
- Oliva, M.**; Neves, M.; Vieira, G.; Pina, P.; Cardoso, M.; Jorge, M. & Freitas, C. (2012). Sedimentological characteristics of ice-wedge polygon terrain in Adventalen valley (Svalbard). *Tenth International Conference on Permafrost (TICOP)*. Salekhard, Siberia (Russia), 26-6-2012.

Oliva, M.; Vieira, G.; Mora, C.; Trindade, A.; Jorge, M.; Batista, V.; Schaefer, C.; Simas, F.; Ramos, M.; De Pablo, M.; Toro, M.; Antoniades, D.; Galán, L.; Giral, 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.; Giral, S.; Granados, I. & Pla-Rabes, S. (2012). Projecto HOLOANTAR 2012-2015. Evolução dos ambientes com permafrost das ilhas Shetland do Sul no Holocénico Superior - Antárctica Marítima. *Workshop do Portuguese Polar Program*. Instituto Hidrográfico de Portugal. Lisbon (Portugal), 11-6-2012.

Oliva, M. & Gómez-Ortiz, A. (2011). Palaeoecological evolution in Sierra Nevada (Southern Spain) over the last millennium inferred from solifluction landforms, lake sediments and documentary sources. *18th Congress of the International Union for Quaternary Research (INQUA)*. Bern (Switzerland), 23-7-2011.

Oliva, M. & Vieira, G.; Mora, C.; Trindade, A. & Jorge, M. (2011). Preliminary results of the Holocene palaeoenvironmental evolution in the Serra da Estrela (Portugal). *X Proceedings of the 19th Congress of the International Union for Quaternary Research (INQUA)*. Bern (Switzerland), 24-7-2011.

Oliva, M.; Trindade, A.; Vieira, G. & Ramos, M. (2011). Spatial patterns of incoming summer short-wave radiation in Deception and Livingston Islands (Antarctica). Controls from atmospheric circulation and consequences for permafrost distribution. *XI International Symposium on Antarctic Earth Sciences*. Edinburgh (Scotland), 11-7-2011.

Oliva, M. & Gómez-Ortiz, A. (2010). Holocene solifluction processes in a Mediterranean mountain environment (Sierra Nevada, Spain). *Third European Conference on Permafrost*. Longyearbyen. Svalbard (Norway), 13-6-2010.

Oliva, M. (2010). Climate variability and periglacial processes during the Mid-Late Holocene in Sierra Nevada (Southern Iberian Peninsula). *European Geosciences Union, General Assembly 2010*. Vienna (Austria), 4-5-2010.

Oliva, M. & Pereira, P. (2010). Winter precipitation patterns in a mountain area of Sierra Nevada (Southern Iberian Peninsula) and their relation with large scale circulation. *European Geosciences Union, General Assembly 2010*. Vienna (Austria), 5-5-2010.

Oliva, M.; Gómez-Ortiz, A. & Schulte, L. (2009). Environmental changes in Sierra Nevada during the last 6 ky BP inferred from solifluction lobes and lake sediments. *European Geosciences Union, General Assembly 2009*. Vienna (Austria), 21-4-2009.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2009). Solifluction activity in the present periglacial belt of Sierra Nevada during the last 8 ky BP. *European Geosciences Union, General Assembly 2009*. Vienna (Austria), 22-4-2009.

Oliva, M. (2008). Lóbulos de soliflucción y fluctuaciones paleoclimáticas durante el Holoceno en Sierra Nevada. *6th International Congress of the Spanish Association of Climatology, Cambio climático regional y sus impactos*. Tarragona (Catalonia). 10-10-2008.

Oliva, M. & Schulte, L. (2008). Solifluction phases during the Late Holocene in Sierra Nevada (Southern Spain). *Ninth International Conference on Permafrost (NICOP)*. Fairbanks, Alaska (United States), 1-7-2008.

Oliva, M.; Gómez-Ortiz, A. & Schulte, L. (2008). Spatial and morphometrical approach to solifluction lobes in Sierra Nevada. *European Geosciences Union, General Assembly 2008*. Vienna (Austria), 17-4-2008.

Oliva, M.; Schulte, L. & Gómez-Ortiz, A. (2007). Solifluction lobes and Holocene environmental changes in Sierra Nevada (Spain). *I Iberian Conference of the International Permafrost Association*. Guarda (Portugal), 25-6-2007.

Oliva, M. (2007). Reconstrucció paleoambiental holocena de Sierra Nevada (Andalusia). *Jornades Doctorals 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.

3.4. CONTINUING PROFESSIONAL DEVELOPMENT: COURSES, WORKSHOPS AND SEMINARS ATTENDED

- Course: “Curso en Prevenció de Riscos Laborals per treballadors desplaçats”. Universitat de Barcelona, March 2025.
- Course: “Seguretat i salut: zones àrtiques i antàrtiques”. Universitat de Barcelona, March 2025.
- Course: “Curs bàsic en Prevenció de Riscos Laborals”. Universitat de Barcelona, March 2025.
- Course: “QGIS”. Geoterna, December 2024 – February 2025.
- Course: “Pla d'autoprotecció de la Universitat de Barcelona”. Universitat de Barcelona, October 2024.
- Course: “Introducció a la Ciberseguretat”. Universitat de Barcelona, May 2024.
- Course: “Análisis espacial con ArcGIS Pro”. ESRI – Universitat de Barcelona, 6–8 September 2022.
- Course: “Curs R”. Universitat de Barcelona (Barcelona, Spain), October–November 2021.
- Course: “Estratègies i eines per a la docència mixta”. Universitat de Barcelona, 23–30 September 2020.
- Course: “BB Collaborate”. Universitat de Barcelona, 18 June 2020.
- Course: “Curso de orientación GPS y móvil”. Cota 3000 (online), 15–16 June 2020.
- Course: “Política d' Open Access a la Universitat de Barcelona”. Universitat de Barcelona, 27 May 2020.

- Fieldtrip: “Geomorphological trip: From Christchurch to Queenstown, Southern Island, New Zealand”. International Permafrost Association – University of Waitako (New Zealand), 4–6 December 2019.
- Course: “How to write a competitive ERC Consolidator Grant 2020 proposal”. 28 October 2019.
- Course: “Diseño de mapas con ArcGIS”. ESRI España – Universitat de Barcelona, 2–3 July 2018.
- Workshop: “Antarctic training field work campaign 2014–15”. Portuguese Polar Program (Lisbon, Portugal), 21 November 2014.
- Workshop: “Permafrost for young researchers”. PYRN / APECS / PAGE21 / ADAPT (Évora, Portugal), 17 June 2014.
- Workshop: “THAW 2014”. University of Laval (Québec City, Canada), 12–15 March 2014.
- Workshop: “Antarctic training field work campaign 2013–14”. Portuguese Polar Program (Lisbon, Portugal), 15 November 2013.
- Workshop: “Pop Day – Popularizing your Research”. AXA Research Fund (Paris, France), 1–2 July 2013.
- Workshop: Permafrost Young Researchers Network (Salekhard, Siberia, Russia), 24 June 2012.
- Workshop: “Modern Biogeography: from phylogeography and landscape genetics to land-use planning and management”. CliMA – Universidade de Lisboa (Lisbon, Portugal), 11 April 2012.
- Course: “Moodle para I&D”. Universidade de Lisboa (Lisbon, Portugal), 18–23 April 2012.
- Workshop: “Antarctic training field work campaign 2011–12”. Portuguese Polar Program (Lisbon, Portugal), 17 November 2011.
- Course: “Rifle handling and polar bear protection”. University Centre in Svalbard (Longyearbyen, Svalbard), 25 August 2011.
- Symposium: Glacial processes and chronology in the Pyrenees. Asociación Española para el Estudio del Cuaternario (Andorra la Vella, Andorra), 7 July 2011.
- Workshop: “Polar and Sedimentary Processes”. University Loughborough (Loughborough, UK), 18–20 November 2010.
- Course: “Rifle handling and polar bear protection”. University Centre in Svalbard (Longyearbyen, Svalbard), 18 June 2010.
- Workshop: “Understanding the role of permafrost in a rapidly warming climate”. University of Fairbanks (Fairbanks, Alaska, USA), 25–27 August 2008.
- Fieldtrip: “Thermal regime and landforms in the Yukon”. University of Ottawa (Whitehorse, Canada), 4–15 July 2008.
- Fieldtrip: “Central Alaska: from Fairbanks to Denali National Park”. International Permafrost Association & University of Fairbanks (Fairbanks, Alaska, USA), 29 June – 3 July 2008.
- Course: “Teaching for young professors”. Institute of Educational Sciences – Universitat de Barcelona, 16–17 January 2008.
- Workshop: “Paleo-Geoecology and Landscape Development Seminar”. Geographisches Institut – University of Bern (Bern, Switzerland), 15 September – 22 December 2007.
- Workshop: “Jornades Doctorials 2007”. Generalitat de Catalunya (Collbató), 18–21 June 2007.
- Workshop: “Jornades de debat sobre el canvi climàtic”. Ajuntament de Riudecanyes & Universitat Rovira i Virgili, 7–8 May 2007.
- Workshop: “Paleo-Geoecology and Landscape Development Seminar”. Geographisches Institut – University of Bern (Bern, Switzerland), 15 October – 15 December 2006.
- Workshop: “Historical Climatology”. Department of Modern History – Universitat de Barcelona, 24–26 April 2006.
- Workshop: “Eleven key questions about climate change”. Fundació La Caixa, 1 February – 31 March 2006.
- Course: “Geomorfología de campo en la depresión de Teruel y sus márgenes montañosos”. Summer School – University of Teruel (Albarracín, Spain), 4–8 July 2005.
- Course: “II Curso de Campo de Geomorfología y Geología del Cuaternario de Tierra del Fuego”. CADIC-CONICET (Ushuaia, Argentina), 6–22 March 2004.

4.- TEACHING AND KNOWLEDGE TRANSFER

4.1 TEACHING INTERESTS

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

4.2 FORMAL EDUCATION

Course 2025/2026

Department of Geography, Universitat de Barcelona

- *Global change*. 3rd Course. Degree in Geography. 3 ECTS credits.
- *Geomorphology*. 1st Course. Degree in Geography and Global Change. 3 ECTS credits.
- *Natural Mountain Systems*. MSc in Territorial Planning and Environmental Management. 5 ECTS credits.

Course 2024/2025

Department of Geography, Universitat de Barcelona

- *Global change*. 3rd Course. Degree in Geography. 3 ECTS credits.
- *Geomorphology*. 1st Course. Degree in Geography and Global Change. 3 ECTS credits.
- *Natural Mountain Systems*. MSc in Territorial Planning and Environmental Management. 5 ECTS credits.

University of Montpellier (France), Universitat de Barcelona. CHARM-EU programme

The changing cryosphere. MSc in in Global Challenges for Sustainability. 0.2 ECTS credits.

Course 2023/2024

Department of Geography, Universitat de Barcelona

- *Global change*. 3rd Course. Degree in Geography. 3 ECTS credits.
- *Geomorphology*. 1st Course. Degree in Geography and Global Change. 3 ECTS credits.
- *Natural Mountain Systems*. MSc in Territorial Planning and Environmental Management. 5 ECTS credits.

University of Montpellier (France), Universitat de Barcelona. CHARM-EU programme

The changing cryosphere. MSc in in Global Challenges for Sustainability. 0.2 ECTS credits.

Course 2022/2023

Department of Geography, Universitat de Barcelona

- *Global change*. 3rd Course. Degree in Geography. 3 ECTS credits.
- *Natural Mountain Systems*. MSc in Territorial Planning and Environmental Management. 5 ECTS credits.
- *Treball de camp en Geografia Física*. MSc in Territorial Planning and Environmental Management. 5 ECTS credits.

University of Montpellier (France), Universitat de Barcelona. CHARM-EU programme

The changing cryosphere. MSc in in Global Challenges for Sustainability. 0.2 ECTS credits.

Course 2021/2022

Department of Geography, Universitat de Barcelona

- *Global change*. 3rd Course. Degree in Geography. 3 ECTS credits.
- *Natural Mountain Systems*. MSc in Territorial Planning and Environmental Management. 5 ECTS credits.

Course 2020/2021

Department of Geography, Universitat de Barcelona

- *Environmental Impact Assessment*. 4th Course. Degree in Geography. 3 ECTS credits.
- *Natural Mountain Systems*. MSc in Territorial Planning and Environmental Management. 5 ECTS credits.
- *Mentoring Degree thesis*. Degree in Geography. 1 ECTS credits.

Department of Geography, Saint Petersburg State University, Russia

- *Quaternary Environments*. MSc CORELIS – Cold Regions Landscape Integrated Sciences, 6 h.

Course 2019/2020

Department of Geography, Universitat de Barcelona

- *Environmental Impact Assessment*. 4th Course. Degree in Geography. 3 ECTS credits.
- *Natural Mountain Systems*. MSc in Territorial Planning and Environmental Management. 5 ECTS credits.

Course 2018/2019

Department of Geography, Universitat de Barcelona

- *Environmental Impact Assessment*. 4th Course. Degree in Geography. 6 ECTS credits.
- *Mentoring Degree thesis*. Degree in Geography. 2 ECTS credits.

Department of Geography, Saint Petersburg State University, Russia

- *Quaternary Environments*. MSc CORELIS – Cold Regions Landscape Integrated Sciences, 8 h.

Course 2017/2018**Department of Geography, Universitat de Barcelona**

- *Environmental Impact Assessment*. 4th Course. Degree in Geography. 6 ECTS credits.
- *Mentoring Degree thesis*. Degree in Geography. 2 ECTS credits.

Course 2016/2017**Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, Portugal**

- *Field work in Physical Geography*. Degree in Geography. 6 ECTS credits.
- *Physical Geography and Quaternary environments*. MSc in Geography and Territorial Planning. 6 ECTS credits.

Course 2015/2016**Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, Portugal**

- *Field work in Physical Geography*. Degree in Geography. 6 ECTS credits.
- *Geomorphology*. Degree in Geography. 6 ECTS credits.
- *Physical Geography and Quaternary environments*. MSc in Geography and Territorial Planning. 6 ECTS credits.

Course 2014/2015**Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, Portugal**

- *Geomorphology*. Degree in Geography. 6 ECTS credits.
- *Physical Geography and Quaternary environments*. MSc in Geography and Territorial Planning. 6 ECTS credits.

Course 2013/2014**Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, Portugal**

- *Quaternary environments*. Degree in Geography. 6 ECTS credits.

Course 2012/2013**Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, Portugal**

- *Quaternary environments*. Degree in Geography. 6 ECTS credits.

Course 2011/2012**Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, Portugal**

- *Quaternary environments*. Degree in Geography. 6 ECTS credits.

Course 2010/2011**Instituto de Geografia e Ordenamento do Território - Universidade de Lisboa, Portugal**

- *Physical Geography of Mountain Environments*. Degree in Geography. 6 ECTS credits.

Course 2008/2009**Department of Geography, Universitat de Barcelona**

- *Geomorphology (assistant)*. 2nd Course. Degree in Geography and Global Change. 6 ECTS credits.
- *Environmental Protected Areas (assistant)*. 2nd Course. Degree in Geography and Global Change. 6 ECTS credits.

Course 2007/2008**Department of Geography, Universitat de Barcelona**

- *Geomorphology (assistant)*. 2nd Course. Degree in Geography and Global Change. 6 ECTS credits.
- *Environmental Protected Areas (assistant)*. 2nd Course. Degree in Geography and Global Change. 6 ECTS credits.

4.3 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**, *Frio 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.
- **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/Practicum, 120 hours/year.

4.4 TRAINING LECTURES

- Oliva, M.** (2026). Permafrost als Pirineus: el gel invisible. Biblioteca Comtat de Cerdanya, Puigcerdà, 9-4-2026.
- Oliva, M.** (2026). Mirades al continent blanc: ciència, art i criosfera. Facultat de Belles Arts, Universitat de Barcelona, 5-3-2026.
- Oliva, M.** (2026). Permafrost als Pirineus: el gel invisible. Consell Comarcal del Pallars Sobirà, Sort, 29-1-2026.
- Oliva, M.** (2025). Groenlandia: termómetro global. Fundación March, Madrid 20-10-2025.
- Oliva, M.** (2025). Emprems del gel i del clima passat al Parc Natural del Cadí-Moixeró. “Parlem de Ciència”, Grup de Recerca de Cerdanya, Puigcerdà, 14-6-2025.
- Oliva, M.** (2025). Situació de la criosfera. Veolia-Aigües de Barcelona, 19-3-2025.
- Oliva, M.** (2024). Situació de la criosfera. Festa de la Recerca. Facultat de Geografia i Història, Universitat de Barcelona, 14-11-2024.
- Oliva, M.** (2024). Canvi global a les regions polars. Màster en Biologia, Universitat de Barcelona, 4-3-2024.
- Oliva, M.** (2024). L'aventura de fer ciència a les regions polars. Festa de la Recerca. Facultat de Geografia i Història, Universitat de Barcelona, 22-2-2024.
- Oliva, M.** (2022). Organismes i recerca a l'Àrtic. Workshop Investigadores/s catalanes/s a l'Àrtic. Universitat Autònoma de Barcelona, Bellaterra, 12-12-2022.
- Oliva, M.** (2024). Les regions polars. Màster en Ecologia, Universitat Autònoma de Barcelona, Bellaterra, 14-12-2022.
- Oliva, M.** (2022). L'aventura de fer ciència a l'Antàrtida. Parc Natural Cadí Moixeró. Martinet de Cerdanya, 4-6-2022.
- 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”. Ainsa (Spain), 7-9-2017.
- Oliva, M.** (2016). A aventura de fazer ciência na Antártida. International Polar Week 2016, Escola IPTrans. Loures (Portugal), 3-5-2016.
- Oliva, M.** (2016). Palaeolimnological studies in cold-climate environments. MSc in Environmental Geochemistry. Lisbon (Portugal), 4-4-2016.

Oliva, M. (2016). A aventura de fazer ciência nos polos. Instituto Superior Técnico, 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 Antártida. 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). Palaeoenvironmental studies in permafrost environments. Workshop on *Methods and techniques to study permafrost in 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 Antártida. 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 processos geomorfològics freds a les muntanyes ibèriques i la seva traslació a l'Antàrtida. Workshop "L'Antàrtida i els geògrafs", Societat Catalana de Geografia, Institut d'Estudis Catalans. Barcelona, 22-5-2012.

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

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

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

4.5 ORGANIZATION OF TRAINING ACTIVITIES (WORKSHOPS, FIELDTRIPS)

- Seminar on "Permafrost als Pirineus: el gel invisible", Ajuntament de Puigcerdà, 9-4-2026.
- Seminar on "Permafrost als Pirineus: el gel invisible", Consell Comarcal del Pallars Sobirà, Sort, 29-1-2026.
- Seminar on "Dels pols a les muntanyes", Festa de la Recerca de la Facultat de Geografia i Història, Universitat de Barcelona, 14-11-2024.
- Field work in Cerdanya, within the course "Field work in Physical Geography", Univ. Barcelona. 22 to 26-5-2023.
- Seminar on "Workshop Investigadores/s catalanes/s a l'Àrtic", meeting of the Catalan Arctic scientific community at the Universitat Autònoma de Barcelona. Barcelona, 12-12-2022.
- Seminar on "The glacial and periglacial landscape of the Parc Natural de l'Alt Pirineu", open event at the Parc Natural de l'Alt Pirineu. Llavorsí, 18-10-2022.
- Seminar on "Mountain regions: study cases from the Pyrenees, Sarajevo and Iceland", open event at the Universitat de Barcelona. Barcelona, 26-4-2022.

- Workshop on “Mountain studies: from polar to mid-latitude mountain regions”, open event at the Universitat de Barcelona, Barcelona, 21-1-2021.
- Fieldtrip “Quaternary environments in Galiza southern coast, Xistral and Picos de Europa massifs (Spain), Universidade de Lisboa. Galicia-Asturias (Spain), 17 to 20-4-2017.
- Workshop on “The future of permafrost in a climate changing world”, EGU General Assembly 2017, European Geosciences Union. Vienna (Austria), 24-4-2017.
- Fieldtrip “Quaternary environments in Galiza southern coast, Xistral and Picos de Europa massifs (Spain)”, Universidade de Lisboa. Galicia-Asturias (Spain), 31-3-2016 to 3-4-2016.
- Workshop on “The future of permafrost in a climate changing world”, EGU General Assembly 2015, European Geosciences Union. Vienna (Austria), 14-4-2015.
- Workshop for Permafrost Young Researchers, within the 4th European Conference on Permafrost, organized by the 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). Évora (Portugal), 17-6-2014.
- Fieldtrip “Quaternary environments in Sierra Nevada (Spain)”, Univ. Lisboa. Granada-Sierra Nevada, 25 to 29-5-2014.
- Workshop on “Methods and techniques to study permafrost in a climate change scenario”, EGU General Assembly 2014, European Geosciences Union. Vienna (Austria), 28-4-2014.
- Fieldtrip “Rock glaciers in the Puigmal massif (Eastern Pyrenees)”, within the IV Iberian Conference, International Permafrost Association, Iberian branch. Vall de Núria (Catalonia), 27-6-2013.
- Fieldtrip “Quaternary environments in Picos de Europa (Asturias, Spain)”, Universidade de Lisboa and University of Oviedo. Asturias (Spain), from 26 to 28-4-2013.
- Workshop “L’Antàrtida i els geògrafs”, Societat Catalana Geografia, Inst. Estudis Catalans. Barcelona, 22 and 29-5-2012.
- Fieldtrip “Quaternary environments in the Serra da Estrela”, Univ. Lisboa. Serra da Estrela (Portugal), 20 to 22-5-2012.

4.6 MENTORING OF STUDENTS

PhD thesis

Dr Josep Bonsoms (supervisors: **Marc Oliva**, Nacho López-Moreno)

Facultat de Geografia i Història, Universitat de Barcelona

PhD in Geography (17-11-2025), “Climate Variability and Change and its Impacts on Glacier and Snow Evolution in Central-Western Greenland”. PhD fellowship funded by the FPI program, Ministerio Economía y Competitividad, Spain

Dr Julia García-Oteyza (supervisors: **Marc Oliva**, Santiago Giralt)

Facultat de Geografia i Història, Universitat de Barcelona

PhD in Geography (7-3-2024), “Glacial oscillations and climate variability in NE Greenland”. PhD fellowship funded by the FPI program, Ministerio Economía y Competitividad, Spain

Dr Valentí Turu (supervisor: **Marc Oliva**)

Facultat de Ciències de la Terra, Universitat de Barcelona

PhD in Geography (24-4-2023), “Mid-Late Pleistocene glacial dynamics in the Valira valleys (Principality of Andorra). Asymmetries within the Pyrenees and correlation across the westernmost European mountain ranges”

Dr Marcelo Fernandes (supervisors: **Marc Oliva**, Gonçalo Vieira)

Instituto de Geografia e Ordenamento do Território (IGOT), Universidade de Lisboa

PhD in Geography (17-3-2023), “Deglaciation chronology and post-glacial environmental evolution of the Upper Garonne valley (Central Pyrenees)”. PhD fellowship funded by Fundação para a Ciência e Tecnologia (FCT), Portugal

Ongoing

Josep Ventura (supervisor: **Marc Oliva**)

Facultat de Geografia i Història, Universitat de Barcelona

PhD in Geography (ongoing), “Les glaceres rocalloses del Pirineu centre-oriental: distribució, dinàmica i cronologia”

Alexis Segovia (supervisor: **Marc Oliva**)

Facultat de Geografia i Història, Universitat de Barcelona

PhD in Geography (ongoing), “Caracterización glaciológica y valoración económica de servicios ecosistémicos de glaciares en los Andes Centrales de Chile”

Claudia Pérez (supervisors: **Marc Oliva**, Julia García-Oteyza)

Facultat de Geografia i Història, Universitat de Barcelona

PhD in Geography (ongoing), “Permafrost in the Pyrenees”. PhD fellowship funded by PERMAPYRENEES project, INTERREG-POCTEFA program

MSc thesis

- Alba Rubio (supervisor: **Marc Oliva**, Juan Carlos Aravena)
Centro de Investigación GAIA Antártica, Universidad de Magallanes (Chile), MSc in Antartic Sciences (2025)
Impacto del glaciario y postglaciario en el paisaje alpino de la Vall de Boí (Pirineos Centrales)
- Chiara Ippoliti (supervisor: **Marc Oliva**)
Universitat de Barcelona, MSc in Planificació Territorial i Gestió Ambiental (2024)
From the Little Ice Age to the Present: A Reconstruction of the extent and Geomorphological Evolution of the Pizolgletscher, Morteratschgletscher, and Unterer Grindelwaldgletscher (Swiss Alps)
- Emma Cameron (supervisors: Dermot Antoniades, **Marc Oliva**)
Centre for Northern Studies, Université Laval, MSc in Geography (2023),
Paleolimnological reconstruction of past climate change in the Clements Markham Inlet region, Nunavut, Canadian High Arctic
- Amanda Pacheco (supervisors: **Marc Oliva**, Jordi Martín)
Facultat de Geografia i Història, Universitat de Barcelona, MSc in Planificació Territorial i Gestió Ambiental (2023)
La ruta àrtica del Noreste: Los intereses marítimos de Rusia y sus consecuentes movimientos y alianzas con China
- Isabel Blasi (supervisors: **Marc Oliva**, Carme Puig)
Universitat Autònoma de Barcelona, Institut Cartogràfic i Geològic de Barcelona i Universitat de Barcelona, MSc in Geoinformation (2020)
Sistema Integrado de Geoinformación para procesos geomorfológicos fríos de alta montaña en un escenario de calentamiento global
- Laura Malermo (supervisors: **Marc Oliva**, Joan Albert López-Bustins)
Facultat de Geografia i Història, Universitat de Barcelona, MSc in Planificació Territorial i Gestió Ambiental (2019).
Fellowship funded by Becas de Doctorado en el Extranjero, CONICYT, Chile
Distribución espacio-temporal y Caracterización morfológica de los campos de Penitentes en Andes
- Marcelo Fernandes (supervisor: **Marc Oliva**)
Instituto de Geografia e Ordenamento do Território (IGOT), Universidade de Lisboa, MSc in Geography (2016)
Geomorphological evolution in the upper Garonne (Central Pyrenees) since the Last Glaciation
- Carolina Luz (supervisors: João Canário, **Marc Oliva**)
Centro de Química Estrutural, Universidade de Lisboa, Lisbon (Portugal), MSc in Chemistry (2016)
Use of chemical elements as tracers of climate change and long-range transport in Antarctic lakes

Bachelor degree

- Nicolau Kyriacou (supervisor: **Marc Oliva**)
Facultat de Geografia i Història, Universitat de Barcelona, Degree in Geography (2025)
Anàlisi geogràfica de la relació entre precipitació i producció de blat a la Península Ibèrica durant la Petita Edat de Gel (1500–1800)
- Adrià Aliaga (supervisor: **Marc Oliva**)
Facultat de Geografia i Història, Universitat de Barcelona, Degree in Geography (2023)
Reconstrucció geomorfològica de la Serra del Cadí
- Paula Timoner (supervisor: **Marc Oliva**)
Facultat de Geografia i Història, Universitat de Barcelona, Degree in Geography (2023)
La comunicació del canvi global. Exemple de les zones polars
- Lydia Arroyo (supervisors: **Marc Oliva**, Santiago Giralt)
Facultat de Geografia i Història, Universitat de Barcelona, Degree in Geography (2021)
Variabilitat climàtica al NE de Groenlàndia inferida a partir de registres lacustres
- Joel Vidal (supervisor: **Marc Oliva**)
Facultat de Geografia i Història, Universitat de Barcelona, Degree in Geography (2019)
Impacte del despoblament rural al Prepirineu: el cas de la Serra del Catllaràs
- Josep Bonsoms (supervisor: **Marc Oliva**)
Facultat de Geografia i Història, Universitat de Barcelona, Degree in Geography (2019),
Potencial afectació del canvi climàtic a l'estació del Port del Comte (Catalunya)
- Judith Hebrard (supervisor: **Marc Oliva**)

Facultat de Geografia i Història, Universitat de Barcelona, Degree in Geography (2018),
Análisis del sistema bicing en Barcelona diez años después

Postdoctoral researchers

Julia García-Oteyza

Facultat de Geografia i Història, Universitat de Barcelona (2024-2026)

Research topic: *Permafrost in the Pyrenees: the changing mountain. Postdoctoral fellowship funded by the PERMAPYRENEES project, INTERREG-POCTEFA program*

José M. Fernández-Fernández

Instituto de Geografia e Ordenamento do Território (IGOT), Universidade de Lisboa (2019-2021)

Research topic: *Analysis of nunataks of the Antarctic Peninsula as multiproxy data sources on environmental change and climate dynamics. Postdoctoral fellowship funded by the Fundação para a Ciência e Tecnologia (FCT), Portugal*

4.7 TEACHING ACCREDITATIONS

- **Catedrático de Universidad**, Agencia Nacional de Evaluación de la Calidad y Acreditación, July 2024.
- **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).

4.8 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.