

c v n CURRÍCULUM VITAE NORMALIZADO



Generated from: Editor CVN de FECYT
Date of document: 28/09/2020
v 1.4.3
1c051032528c48be528c6625634ebbb6

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

I have a degree in Geology, a Master in Global Change and a Master in training as Highschool teacher (Natural Sciences specialty). After my graduation I have been trained as a Quaternary geologist working in an interdisciplinary research environment that allowed me to combine geochemical, biological and geomorphological approaches to address paleoenvironmental reconstructions from lacustrine and peat records. **During my PhD** I was instructed in the use of basic geochemical proxies and techniques including organic matter stable isotopes, soil/peat/sediment elemental composition from X-Ray Fluorescence (XRF) and Inductively coupled plasma mass spectrometry (ICP-MS) methods and mineralogy determination from X-Ray Diffraction (XRD). I was also educated in plant macrofossil and pollen identification. My initial research was based on the study of peatlands as paleoenvironmental archives, it is for this reason that I was also trained in peatland science as: Histosols description, mire diversity, mire hydrology or peatland carbon (C) balances.

During my **postdoctoral career** my main research activity has been centered on the study of soil phosphorus (P) cycling, a work that I have developed in a multidisciplinary and international group. I have been responsible for the data gathering and management of a world soil phosphatase database. Currently I am studying two very different systems: (a) P cycling in tropical soils (mainly ferralsols, acrisols and podzols) with special focus on mineral adsorption of P and (b) C, P and other nutrients cycling in arctic and subarctic organic soils vulnerable to permafrost thawing.

As a result of my professional progression my **main research interests** are the study of: (1) peatlands as environmental archives, Histosols as carbon and nutrients reservoirs and very sensitive systems to climate and global change. (2) Permafrost thawing processes on Cryosols and Cryic Histosols and its geochemical, hydrological and geomorphological consequences. (3) Tropical soil mineralogy and phosphate-mineral interactions on rainforest topo-sequences.

During **my research activity** I have participated in 16 research projects. I have published 22 papers in journals from the Science citation index, 2 book chapters, and I have 9 first author communications in conferences. Following Google Scholar metrics: I have 602 citations (h=13 and i10=14). Following Web of Science core collection metrics: I have 393 citations (h=11).

Regarding my **teaching activities**, I have been teaching during two academic courses in the subjects of: Geomorphology, Physical Environment and External Geological Processes/ Hydrology in three different degrees (Geology, Environmental Biology and Environmental Sciences respectively) from Autonomous University of Barcelona (UAB).

I am very interested on **science communication** and I believe that as environmental scientists we have an important **role in our societies** to face climate and global changes challenges. For this reason, I also dedicated time to participate as scientist and activist in several activities related with science education and dissemination or environmental journalism.



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

ORCID: 0000-0002-3036-3182

Unesco specialization codes: 2511 Soil Science/ 2503 Geochemistry/ 2506.07 Geomorphology/ 2502.05 Paleoclimatology

Google Scholar metrics:

Citations: 602 (543 since 2015) // h-index:13 // i10-index:14

Web of Science (core collection) metrics:

Total publications: 22// Sum of times cited: 393 //Without self-citation: 335// h:11



Current professional situation

Employing entity: Universitat Autònoma de Barcelona

Type of entity: University

Department: Geologia, Facultat de Ciències

Professional category: Professora Associada

Start date: 01/09/2020

Type of contract: Temporary employment contract

Dedication regime: Part time

Primary (UNESCO code): 250607 - Geomorphology

Secondary (UNESCO code): 250800 - Hydrology

Tertiary (UNESCO code): 251100 - Soil Science

Performed tasks: - Teaching at the Geology Department in the subjects of: Geomorphology, Physical Environment and External Geological Processes/Hydrology in three different degrees (Geology, Environmental Biology and Environmental Sciences respectively) from Autonomous University of Barcelona (UAB). - Coordination of two courses per year.

Identify key words: Geomorphology

Previous positions and activities

	Employing entity	Professional category	Start date
1	Centre de Recerca Ecològica i Aplicacions Forestals	Postdoc position	01/11/2014
2	Consejo Superior de Investigaciones Científicas	PhD research student	30/09/2008
3	Ernst-Moritz-Ardnt Greifswald University (Germany)	Researcher and SIG technician	01/11/2012
4	Geologist of the World (NGO)	Technician in flood risk cartography	01/04/2008
5	Universitat de Barcelona	Technician at the Paleomagnetism Laboratory	2007

1 **Employing entity:** Centre de Recerca Ecològica i Aplicacions Forestals **Type of entity:** Public Research Body

Department: Global Ecology Unit

Professional category: Postdoc position

Educational Management (Yes/No): No

Start-End date: 01/11/2014 - 31/05/2020

Type of contract: Temporary employment contract

Primary (UNESCO code): 251104 - Soil chemistry

Secondary (UNESCO code): 250300 - Geochemistry

Tertiary (UNESCO code): 250205 - Palaeoclimatology



Performed tasks: Postdoc in the framework of the Imbalance-P ERC project. Main dedication: geochemical aspects of phosphorus cycle / soil mineralogy / paleoclimatology Supervisor: Prof. Josep Peñuelas (CREAF-CSIC-UAB)

Identify key words: Environmental science

- 2** **Employing entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Department: Sedimentary Geology, Instituto de Ciencias de la Tierra Jaume Almera
City employing entity: Barcelona, Catalonia, Spain
Professional category: PhD research student **Educational Management (Yes/No):** No
Start-End date: 30/09/2008 - 14/03/2014 **Duration:** 5 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 250205 - Palaeoclimatology
Secondary (UNESCO code): 250308 - Stable isotopes
Tertiary (UNESCO code): 250618 - Sedimentology
Performed tasks: PhD research student The PhD consisted in the environmental and climatic reconstruction of the last 70kyr BP in Easter Island (Southern Pacific) using the Rano Aroi peatland record. This work has been based in a multiproxy approach concerning the use of chemical (organic and inorganic chemistry, major, minor and trace elements, stable isotopy) and biological (pollen and macrofossil) proxies. The PhD was carried out at the Institute of Earth Sciences Jaume Almera (ICTJA-CSIC), Supervisors: Dr. Santiago Giralt and Dr. Sergi Pla. The PhD was presented on 10th January 2014 and defended on 14th March 2014.
Field of management activity: Public Research Body
- 3** **Employing entity:** Ernst-Moritz-Ardnt Greifswald University (Germany) **Type of entity:** University
Professional category: Researcher and SIG technician
Start-End date: 01/11/2012 - 30/04/2013 **Duration:** 6 months
Performed tasks: Digital mapping of East African peatlands for the Global Peatland Database Project
- 4** **Employing entity:** Geologist of the World (NGO)
Professional category: Technician in flood risk cartography
Start-End date: 01/04/2008 - 30/09/2008 **Duration:** 6 months
Performed tasks: Geohazards. Flood risk cartography and social work in El Salvador to develop the technical part of the project: "Fortalecimiento de las capacidades locales (municipales y comunitarias) hacia una gestión de riesgos en la zona sur de la Cordillera del Bálsamo. Fase II".
- 5** **Employing entity:** Universitat de Barcelona **Type of entity:** University
Professional category: Technician at the Paleomagnetism Laboratory **Educational Management (Yes/No):** No
Start date: 2007
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Performed tasks: Application area: Paleomagnetism. Technician on the use of Magnetometer 2G Enterprises equipment at the Institute of Earth Science Jaume Almera (ITCJA-CSIC), Barcelona Advisors: Dr. Miguel Garcés, Dra. Bet Beamud
Field of management activity: University



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1** **Name of qualification:** Master en Formación de Profesorado de Educación Secundaria
Degree awarding entity: Universidad Internacional de la Rioja
Date of qualification: 26/07/2017
- 2** **University degree:** Master
Name of qualification: Master in Global Change
Degree awarding entity: Universidad Internacional Menéndez Pelayo
Type of entity: University
Date of qualification: 08/01/2010
Standardised degree: No
- 3** **University degree:** Higher degree
Name of qualification: Licenciada en Ciencias Geológicas Sección Geología Fundamental
Degree awarding entity: Universitat de Barcelona
Type of entity: University
Date of qualification: 21/02/2008
Prize: Special award for degree

Doctorates

Doctorate programme: Earth sciences
Degree awarding entity: Universitat de Barcelona
Type of entity: University
Date of degree: 14/03/2014
European doctorate: Yes
Date of certificate: 14/03/2014
Thesis title: The last 70 ky of Ranu Aroi (Easter island, 27 °S) peat record: New insights for the Central Pacific paleoclimatology
Thesis director: Santiago Giralt
Thesis co-director: Sergi Pla
Obtained qualification: Cum laude

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1** **Training title:** Management by objectives
Awarding entity: Universitat Autònoma de Barcelona
Type of entity: University
Aims of the entity: Unitat de formació i desenvolupament professional
End date: 05/2020



- 2 Training title:** Management by objectives
Awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Aims of the entity: Unitat de formació I desenvolupament professional
End date: 05/2020
- 3 Training title:** Management by objectives
Awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Aims of the entity: Unitat de formació I desenvolupament professional
End date: 05/2020
- 4 Training title:** Strategies and tools for evaluation and learning
Awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Aims of the entity: Unitat de formació idesenvolupament professional
End date: 05/2020
- 5 Training title:** Strategies and tools for evaluation and learning
Awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Aims of the entity: Unitat de formació idesenvolupament professional
End date: 05/2020
- 6 Training title:** Intensive Training Course on Soil Micromorphology
Awarding entity: Universitat de Lleida **Type of entity:** University
End date: 10/2019
- 7 Training title:** The scientist in the media
Awarding entity: Fundación Esteve and Radio Televisión Española
End date: 01/2015
- 8 Type of training:** Course
Training title: Numerical Analyses of Biological and Environmental Data course
City awarding entity: London, United Kingdom
Awarding entity: University College of London **Type of entity:** University
End date: 05/2010
- 9 Type of training:** Course
Training title: Quaternary glacial and climate history of the Arctic
City awarding entity: Longyearbyen, Norway
Awarding entity: University Centre in Svalbard **Type of entity:** University
End date: 09/2007

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German		A1	A1	A1	A1
French		B1	A1	A1	A1
Catalan		C1	C1	C1	C1
English		C1	C1	C1	C1
Spanish		C1	C1	C1	C1



Teaching experience

General teaching experience

- 1** **Type of teaching:** Official teaching
Name of the course: External Geological Processes
Type of programme: Bachelor's degree
Type of subject: Optional
University degree: Environmental Sciences
Course given: External Geological Processes
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 99
Entity: Universitat Autònoma de Barcelona
Faculty, institute or centre: Faculty of Sciences
Department: Geology
Start date: 2019

Type of teaching: Theoretical and practical

Type of entity: University

End date: 2020
- 2** **Type of teaching:** Official teaching
Name of the course: Geomorphology
Type of programme: Bachelor's degree
Type of subject: Obligatory
University degree: Geology
Course given: Geomorphology I
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 10
Entity: Universitat Autònoma de Barcelona
Faculty, institute or centre: Faculty of Sciences
Department: Geology
Start date: 2019

Type of teaching: Fieldtrip

Type of entity: University

End date: 2020
- 3** **Type of teaching:** Official teaching
Name of the course: Geomorphology II
Type of programme: Bachelor's degree
Type of subject: Obligatory
University degree: Geology
Course given: Geomorphology II
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 10
Entity: Universitat Autònoma de Barcelona
Faculty, institute or centre: Faculty of Sciences
Department: Geology
Start date: 2019

Type of teaching: Fieldtrip

Type of entity: University

End date: 2020
- 4** **Type of teaching:** Official teaching
Name of the course: Hydrogeology
Type of programme: Bachelor's degree
Type of subject: Obligatory

Type of teaching: Practical and fieldtrip



University degree: Environmental Sciences
Course given: Hydrogeology
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 10
Entity: Universitat Autònoma de Barcelona
Faculty, institute or centre: Faculty of Sciences
Department: Geology
Start date: 2019

Type of entity: University

End date: 2020

5 **Type of teaching:** Official teaching
Name of the course: Physical environment
Type of programme: Bachelor's degree
Type of subject: Obligatory
University degree: Environmental Biology
Course given: Physical environment
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 212
Entity: Universitat Autònoma de Barcelona
Faculty, institute or centre: Faculty of Biosciences
Department: Geology
Start date: 2019

Type of teaching: Theoretical and practical

Type of entity: University

End date: 2020

6 **Type of teaching:** Official teaching
Name of the course: External Geological Processes
Type of programme: Bachelor's degree
Type of subject: Optional
University degree: Environmental Sciences
Course given: External Geological Processes
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 89
Entity: Universitat Autònoma de Barcelona
Faculty, institute or centre: Faculty of Sciences
Department: Geology
Start date: 2018

Type of teaching: Theoretical and practical

Type of entity: University

End date: 2019

7 **Type of teaching:** Official teaching
Name of the course: Geomorphology
Type of programme: Bachelor's degree
Type of subject: Obligatory
University degree: Geology
Course given: Geomorphology I
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 117
Entity: Universitat Autònoma de Barcelona
Faculty, institute or centre: Geology
Department: Geology
Start date: 2018

Type of teaching: Practical work (classroom-problems)

Type of entity: University

End date: 2019

8 **Type of teaching:** Official teaching
Name of the course: Geomorphology II
Type of programme: Bachelor's degree

Type of teaching: Fieldtrip



Type of subject: Obligatory
University degree: Geology
Course given: Geomorphology I
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 10
Entity: Universitat Autònoma de Barcelona
Faculty, institute or centre: Geology
Department: Geology
Start date: 2018

Type of entity: University

End date: 2019

9 **Type of teaching:** Official teaching
Name of the course: Hydrogeology
Type of programme: Bachelor's degree
Type of subject: Obligatory
University degree: Environmental Sciences
Course given: Hydrogeology
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 57
Entity: Universitat Autònoma de Barcelona
Faculty, institute or centre: Faculty of Sciences
Department: Geology
Start date: 2018

Type of teaching: Practical and fieldtrip

Type of entity: University

End date: 2019

10 **Type of teaching:** Official teaching
Name of the course: Physical environment
Type of programme: Bachelor's degree
Type of subject: Obligatory
University degree: Environmental Biology
Course given: Physical environment
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 202
Entity: Universitat Autònoma de Barcelona
Faculty, institute or centre: Faculty of Sciences
Department: Geology
Start date: 2018

Type of teaching: Theoretical and practical

Type of entity: University

End date: 2019

Experience supervising doctoral thesis and/or final year projects

1 **Project title:** Impacts of permafrost degradation on an arctic polygonal mire
Entity: Geology Degree Final Project, Facultat de Ciències, Universitat Autònoma de Barcelona
Student: Gabriel Miret
Date of reading: 07/2020
Type of entity: University

2 **Project title:** Changes in P cycling along a permafrost thawing gradient in a subarctic mire
Entity: Environmental Sciences and Geology, Double Degree Final Project
Student: i Marta Girbau Clara Laguna
Date of reading: 07/2019
Type of entity: University



- 3** **Project title:** Dendrochronology of *Betula nana* reveals permafrost thaw dynamics in a subarctic peatland.
Entity: Master in Terrestrial Ecology and Biodiversity Management at Universitat Autònoma de Barcelona **Type of entity:** University
Student: Eva Orteu
Date of reading: 07/2019
- 4** **Project title:** Environmental reconstruction from a subarctic mire record
Entity: Environmental Sciences and Geology, Double Degree Final Project, Facultat de Ciències, Universitat Autònoma de Barcelona **Type of entity:** University
Student: i Sara Campderrós Cristina Fernández
Date of reading: 07/2019

Student tutorials

- 1** **Name of the programme:** Professional Practices Advising at CREAM
Entity: Universitat de Girona **Type of entity:** University
Number of recognized hours/ECTS credits: 100
Number of tutored students: 1
- 2** **Name of the programme:** Professional Practices Advising at CREAM
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Number of recognized hours/ECTS credits: 150
Number of tutored students: 1

Other activities/achievements not included above

- 1** **Description of the activity:** Graduation project Tribunal - Geology degree
Organising entity: Universitat Autònoma de Barcelona **Type of entity:** University
End date: 2020
- 2** **Description of the activity:** Graduation project Tribunal - Environmental Sciences degree
Organising entity: Universitat Autònoma de Barcelona **Type of entity:** University
End date: 2019
- 3** **Description of the activity:** Graduation project Tribunal - Geology degree
Organising entity: Universitat Autònoma de Barcelona **Type of entity:** University
End date: 2019

Most relevant contributions of your teaching CV

- 1** **Description:** Coordinator of two courses: Physical environment and External Geological Processes
Organising entity: Universitat Autònoma de Barcelona **Type of entity:** University
End date: 2020
- 2** **Description:** Coordinator of two courses: Physical environment and External Geological Processes
Organising entity: Universitat Autònoma de Barcelona **Type of entity:** University
End date: 2019



Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Global anthropogenic change impacts on bio-elements stocks and fluxes on humans and ecosystems. PID2019-110521GB-I00
Entity where project took place: Centre de Recerca Ecològica i Aplicacions Forestals **Type of entity:** Public Research Body
Funding entity or bodies: Ministerio de Ciencia, Innovación y Universidades
Start-End date: 2020 - 2023
Total amount: 332.750 €
- 2** **Name of the project:** THARCPEAT : Understanding the impacts of permafrost Thawing on Arctic Peatlands
Entity where project took place: Centre de Recerca Ecològica i Aplicacions Forestals **Type of entity:** Public Research Body
Funding entity or bodies: INTERACT program. Funded by EU-H2020 grant agreement ID: 730938.
Start-End date: 2020 - 2021
- 3** **Name of the project:** YouGECA - Youth Global Engagement for Climate Action
Entity where project took place: Universitat Pompeu Fabra **Type of entity:** University
Name principal investigator (PI, Co-PI....): Mariona Ferrer
Funding entity or bodies: Convocatòria d'accions de recerca de la iniciativa sobre Benestar planetari. Ref: PlanetaryWellbeing2019.
Start-End date: 2019 - 2021
Total amount: 19,87 €
- 4** **Name of the project:** FORHOT-IEC (PRO2018-S02-PENUELAS): Participation from Institut d'Estudis Catalans (IEC) on FORHOT project to study climate change effects on Arctic, Subarctic and boreal Carbon stocks loss.
Entity where project took place: Centre de Recerca Ecològica i Aplicacions Forestals **Type of entity:** Public Research Body
Funding entity or bodies: Institut d'Estudis Catalans **Type of entity:** State agency
Start-End date: 2018 - 2020
Total amount: 13.000 €
- 5** **Name of the project:** FERT-WARM. CGL2016-79835-P: Saturation of carbon sinks: from a CO2 and N fertilization-dominated period to a warming-dominated period
Entity where project took place: Centre de Recerca Ecològica i Aplicacions Forestals **Type of entity:** Public Research Body
Name principal investigator (PI, Co-PI....): Josep Peñuelas

**Funding entity or bodies:**

Ministerio de Economía y Competitividad

Type of entity: State agency**Start-End date:** 2017 - 2020**Total amount:** 321.860 €

- 6** **Name of the project:** SGR2014-274. Grup de Recerca Reconegut per la Generalitat de Catalunya 2014-2016 Grup d'Ecologia Global

Entity where project took place: Centre de Recerca Ecològica i Aplicacions Forestals **Type of entity:** Public Research Body**Funding entity or bodies:**

Generalitat de Catalunya

Type of entity: State agency**Start-End date:** 2017 - 2020**Total amount:** 60.216 €

- 7** **Name of the project:** P-PEAT: Understanding Phosphorus cycling in Peatlands under Climate Change

Entity where project took place: Centre de Recerca Ecològica i Aplicacions Forestals **Type of entity:** Public Research Body**Funding entity or bodies:**

INTERACT program. Funded by EU-H2020 grant agreement ID: 730938.

Start-End date: 2018 - 2019

- 8** **Name of the project:** Dissecting and monitoring Amazonian diversity (DIAMOND)

Entity where project took place: Centre d'étude de la biodiversité amazonienne (CEBA)**Start-End date:** 2016 - 2019**Total amount:** 250.000 €

- 9** **Name of the project:** Imbalance-P (European Research Council Synergy grant ERC-2013-SyG-610028)

Entity where project took place: Centre de Recerca Ecològica i Aplicacions Forestals **Type of entity:** Public Research Body**Name principal investigator (PI, Co-PI....):** Josep Peñuelas; Ivan Janssens; Michael Obersteiner; Philippe Ciais**Start-End date:** 2014 - 2019**Total amount:** 13.700.000 €

- 10** **Name of the project:** Impacts of the rising N and P imbalances on terrestrial organisms, communities and ecosystems

Type of project: Basic research (including archaeological digs, etc)**Entity where project took place:** Centre de Recerca Ecològica i Aplicacions Forestals **Type of entity:** Public Research Body**Name principal investigator (PI, Co-PI....):** Josep Peñuelas**Funding entity or bodies:**

Ministerio de Economía y Competitividad

Type of entity: State agency**Start-End date:** 2014 - 2017**Duration:** 3 years**Total amount:** 400.000 €

- 11** **Name of the project:** SGR2014-274. Grup de Recerca Reconegut per la Generalitat de Catalunya 2014-2016 Grup d'Ecologia Global

Entity where project took place: Centre de Recerca Ecològica i Aplicacions Forestals **Type of entity:** Public Research Body**Funding entity or bodies:**



Generalitat de Catalunya

Type of entity: State agency

Start-End date: 2014 - 2016

Total amount: 44.000 €

- 12 Name of the project:** Global Peatland Mapping East Africa
Entity where project took place: Ernst-Moritz-Ardnt **Type of entity:** University
Greifswald University
City of entity: Greifswald, Mecklenburg-Vorpommern, Germany
Name principal investigator (PI, Co-PI....): Hans Joosten
Start-End date: 2012 - 2013
- 13 Name of the project:** North Atlantic Oscillation evolution during the last 15000 years in the Iberian peninsula and Azores Island using lacustrine records and instrumental climate data (CGL2010-15767)
Entity where project took place: Instituto de **Type of entity:** State agency
Ciencias de la Tierra Jaume Almera
City of entity: Barcelona, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Santiago Giralt
Start-End date: 2010 - 2013
- 14 Name of the project:** High resolution paleoclimatic reconstruction from Last Glacial Maximum using geochemical and biological proxies on Andean and Pacific lakes (GEOBILA) (CGL2007-60932/BTE)
Entity where project took place: Universitat de **Type of entity:** University
Barcelona
City of entity: Barcelona, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Alberto Sáez
Start-End date: 2007 - 2010
- 15 Name of the project:** Continental Cenozoic chronology of NE Iberian Plate (CGL2004-00780/BTE)
Entity where project took place: Universitat de **Type of entity:** University
Barcelona
City of entity: Barcelona, Spain
Name principal investigator (PI, Co-PI....): Miguel Garcés
Start-End date: 2004 - 2007



Scientific and technological activities

Scientific production

- 1** **H index:** 11
Date of application: 28/09/2020
Fuente de Índice H: WOS
- 2** **H index:** 13
Date of application: 28/09/2020
Fuente de Índice H: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1** Mauricio Lima; E.M. Gayo; Claudio Latorre; C.M. Santoro; S.A. Estay; Núria Cañellas-Boltà; Santiago Giralt; Alberto Sáez; Sergi Pla-Rabes; Olga Margalef; N. Chr. Stenseth. Ecology of the collapse of Rapa Nui society. Proceedings of the Royal Society B. 287, pp. 1 - 10. 2020.
Type of production: Scientific paper **Format:** Journal
Impact source: SJR **Category:** Multidisciplinary
Impact index in year of publication: 4.626 **Journal in the top 25%:** Yes
- 2** Jennifer Soong; Ivan A. Janssens; Oriol Grau; Olga Margalef; Clément Stahl; Leandro Van Langenhove; Ifigenia Urbina; Jerome Chave; Aurelie Dourdain; Bruno Ferry; Vincent Freycon; Bruno Hérault; Jordi Sardans; Josep Peñuelas; Erik Verbruggen. Soil properties explain tree growth and mortality, but not biomass, across phosphorus-depleted tropical forests. Scientific Reports. 10 - 1, pp. 1 - 13. 2020.
Type of production: Scientific paper **Category:** Earth and Planetary Sciences (miscellaneous)
Impact source: SJR **Journal in the top 25%:** Yes
Impact index in year of publication: 4.149
- 3** Irantzu Seco; Valentí Rull; Encarnación Montoya; Núria Cañellas-Boltà; Santiago Giralt; Olga Margalef; William D'Andrea; Raymond S. Bradley; Sergi Pla-Rabes; Alberto Sáez. A continuous palynological record of forest clearing at Rano Kao (Easter Island, SE Pacific) during the last millennium: preliminary report. Quaternary. 2 - 2, pp. 22. 2019.
Type of production: Scientific paper
- 4** Ivan A. Janssens; Andreas Richter; Lore T. Verryckt; Leandro Van Langenhove; Clément Stahl; Elodie A. Courtois; Ifigenia Urbina; Olga Margalef; Joan Llusà; Oriol Grau; Albert Gargallo-Garriga; Marcos Fernández Martínez; Dolores Asensi; Jordi Sardans; Guille Peguero. Nutrient scarcity strengthens soil fauna control over leaf litter decomposition in tropical rainforests. Proceedings of the Royal Society B. 286, pp. 1 - 9. 2019.
Type of production: Scientific paper **Format:** Journal
Impact source: SJR **Category:** Environmental Science (miscellaneous)
Impact index in year of publication: 4.626 **Journal in the top 25%:** Yes
- 5** Marcos Fernández Martínez; Olga Margalef; Ferran Sayol; Dolores Asensio; Guillem Bagaria; Jordi Corbera; Francesc Sabater; Xavi Domene; Catherine Preece. Sea spray influences water chemical composition of Mediterranean semi-natural springs. Catena. 173, pp. 414 - 423. 2019.



Type of production: Scientific paper
Impact source: SJR
Impact index in year of publication: 4.882

Format: Journal
Category: Earth-surface processes
Journal in the top 25%: Yes

- 6** Valentí Rull; Encarnación Montoya; Irantzu Seca; Núria Cañellas Boltà; Santiago Giralte; Olga Margalef; Sergi Pla-Rabes; William D'Andrea; Raymond Bradley; Alberto Sáez. CLAFS, a Holistic Climatic-Ecological-Anthropogenic Hypothesis on Easter Island's Deforestation and Cultural Change: Proposals and Testing Prospects. *Frontiers in Ecology and Evolution*. 6 - 32, pp. 2 - 12. 2018.

Type of production: Scientific paper
Impact source: SJR
Impact index in year of publication: 2.747

Format: Journal
Category: Ecology
Journal in the top 25%: Yes

- 7** Olga Margalef; José Antonio Álvarez Gómez; Sergi Pla-Rabes; Núria Cañellas-Boltà; Valentí Rull; Alberto Sáez; Adelina Geyer; Josep Peñuelas; Jordi Sardans; Santiago Giralte. Revisiting the role of high-energy Pacific events on the environmental and cultural history of Easter Island (Rapa Nui). *Geographical Journal*. 184 - 3, pp. 310 - 322. 2018.

Type of production: Scientific paper
Impact source: SJR
Impact index in year of publication: 2.614

Format: Journal
Category: Earth-Surface processes i Geography, Planning and development
Journal in the top 25%: Yes

- 8** Marta Pérez Rodríguez; Pablo Corella; Sergi Pla-Rabes; Olga Margalef; Santiago Giralte; Antonio Martínez Cortizas. The role of climate: 71 ka of atmospheric mercury deposition in the Southern Hemisphere recorded by Rano Aroi mire, Easter Island (Chile). *Geosciences*. 8 - 10, pp. 374. 2018.

Type of production: Scientific paper

Format: Journal

- 9** Dolores Asensio; C. Stefanescu; Josep Peñuelas; Jordi Sardans; Iolanda Filella; Marc Estiarte; Joan Llusà; Jofre Carnicer; Mireia Bartrons; Albert Rivas Ubach; Oriol Grau; Guille Peguero; Olga Margalef; Sergi Pla-Rabes; Catherine Preece; L. Liu; Alexandre Verger; L. Rico; [...]; Jaume Terrades. Assessment of the impacts of climate change on Mediterranean terrestrial ecosystems based on data from field experiments and long-term monitored field gradients in Catalonia. *Environmental and Experimental Botany*. 152, pp. 49 - 59. 2017.

Type of production: Scientific paper
Impact source: SJR
Impact index in year of publication: 4.173

Format: Journal
Category: Plant Science
Journal in the top 25%: Yes

- 10** Ivan Janssens; Marcos Fernández Martínez; Jordi Sardans; Olga Margalef; Roberto Molowny; Philippe Ciais; Daniel Goll; Andreas Richter; Dolores Asensio; Josep Peñuelas. Global patterns of phosphatase activity in natural soils. *Scientific Reports*. 7 - 1, pp. 1 - 13. 2017.

Type of production: Scientific paper
Impact source: SJR
Impact index in year of publication: 4.543

Format: Journal
Category: Multidisciplinary sciences
Journal in the top 25%: Yes

- 11** Josep Peñuelas; Jordi Sardans; Iolanda Filella; Marc Estiarte; Romà Ogaya; Jofre Carnicer; Joan Llusà; Albert Rivas-Ubach; Oriol Grau; Mireia Bartrons; Guillermo Peguero; Olga Margalef; Sergi Pla-Rabes; C. Stefanescu; Jaume Terrades. Impacts of global change on Mediterranean terrestrial ecosystems and their services. Forest special issue "Quantifying Impacts of Drought and Wildfire on Forest's Water and Carbon Resources". 8 (12) - 463, pp. 1 - 37. 2017.

Type of production: Scientific paper
Impact source: SJR
Impact index in year of publication: 2.263

Format: Journal
Category: Forestry
Journal in the top 25%: Yes

- 12** Josep Peñuelas; Jordi Sardans; Mireia Bartrons; Olga Margalef; Albert Gargallo-Garriga; Ivan Janssens; Philippe Ciais; Michael Obersteiner; B. Sigurdsson; H. Chen. Plant invasion is associated with higher plant–soil nutrient concentrations in nutrient-poor environments. *Global change biology*. 23 - (3), pp. 1282 - 1291. 2017.
Type of production: Scientific paper **Format:** Journal
Impact source: SJR **Category:** Environmental Sciences (miscellaneous), Global and Planetary Change
Impact index in year of publication: 8.750 **Journal in the top 25%:** Yes
- 13** Santiago Giralt; Valentí Rull; Núria Cañellas-Boltà; Olga Margalef; Sergi Pla-Rabes; Alberto Sáez. Climate changes and cultural shifts on Easter Island during the last three millennia. *Pages Magazine*. 24 - 2, pp. 70 - 71. 2016.
Type of production: Scientific paper **Format:** Journal
- 14** Núria Cañellas Boltà; Valentí Rull; Alberto Sáez; Olga Margalef; Sergi Pla-Rabes; Blas Valero Garcés; Santiago Giralt. Vegetation dynamics at Raraku lake catchment (Easter island) during the past 34,000 years. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 446, pp. 55 - 69. 2016.
Type of production: Scientific paper **Format:** Journal
Impact source: SJR **Category:** Earth Surface Processes
Impact index in year of publication: 2.808 **Journal in the top 25%:** Yes
- 15** Valentí Rull; Núria Cañellas Boltà; Olga Margalef; Alberto Sáez; Sergi Pla-Rabes; Santiago Giralt. Late Holocene vegetation dynamics and deforestation in Rano Aroi: Implications for Easter Island's ecological and cultural history. *Quaternary Science Reviews*. 126, pp. 219 - 226. 2015.
Type of production: Scientific paper **Format:** Journal
Impact source: SJR **Category:** Physical geography, multidisciplinary geosciences
Impact index in year of publication: 4.833 **Journal in the top 25%:** Yes
- 16** Alberto Sáez; Núria Cañellas-Boltà; Olga Margalef; Isabel Cacho; Sergi Pla-Rabes; Juan Jose Pueyo; Leopoldo Pena; Blas Valero Garcés; Valentí Rull; Santiago Giralt. Millennial-scale precipitation variability over Easter Island (South Pacific) during MIS 3: inter-hemispheric teleconnections with North Atlantic abrupt cold events. *Climate of the Past Discussions*. 11 - 2, 2015.
Type of production: Scientific paper **Format:** Journal
- 17** Olga Margalef; Antonio Martínez-Cortizas; Sergi Pla-Rabes; Núria Cañellas-Boltà; Juan Jose Pueyo; Alberto Sáez; Blas Valero-Garcés; Santiago Giralt. Environmental processes in Rano Aroi (Easter Island) peat geochemistry forced by climate variability during the last 70 kyr. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 414, pp. 438 - 450. 2014.
Type of production: Scientific paper **Category:** Earth Surface Processes
Impact source: SJR **Journal in the top 25%:** Yes
Impact index in year of publication: 2.581
- 18** Núria Cañellas- Boltà; Valentí Rull; Alberto Sáez; Matthew Prebble; Olga Margalef. First records and potential palaeoecological significance of *Dianella* (Xanthorrhoeaceae), an extinct representative of the native flora of Rapa Nui (Easter Island). *Vegetation History and Archaeobotany*. 23 - 3, pp. 331 - 338. 2014.
Type of production: Scientific paper **Format:** Journal

- 19** Núria Cañellas-Boltà; Valentí Rull; Alberto Sáez; Matthew Prebble; Olga Margalef. First records and potential palaeoecological significance of *Dianella* (Xanthorrhoeaceae), an extinct representative of the native flora of Rapa Nui (Easter Island). DOI 10.1007/s00334-014-0432-8. *Vegetation History and Archaeobotany*. 23 - 3, pp. 331 - 338. 2014.
Type of production: Scientific paper **Format:** Journal
- 20** Olga Margalef; Núria Cañellas-Boltà; Sergi Pla-Rabes; Santiago Giralt; Juan Jose Pueyo; Hans Joosten; Valentí Rull; Teresa Buchaca; Armand Hernández; Blas Valero-Garcés; Ana Moreno; Alberto Sáez. A 70,000 year geochemical and palaeoecological record of climatic and environmental change from Rano Aroi peatland (Easter Island). *Global and Planetary Change*. 108, pp. 72 - 84. 2013.
Type of production: Scientific paper **Format:** Journal
Impact source: SJR **Category:** Physical Geography, Multidisciplinary Geosciences
Impact index in year of publication: 4.278 **Journal in the top 25%:** Yes
- 21** Valentí Rull; Núria Cañellas-Boltà; Alberto Sáez; Olga Margalef; Roberto Bao; Sergi Pla-Rabes; Santiago Giralt. Challenging Easter Island's collapse: the need for interdisciplinary synergies. *Frontiers in Ecology and Evolution*. 1 - 3, 2013.
Type of production: Scientific paper **Format:** Journal
- 22** Núria Cañellas-Boltà; Valentí Rull; Alberto Sáez; Olga Margalef; Roberto Bao; Sergi Pla-Rabes; Martin Blaauw; Blas Valero-Garcés; Santiago Giralt. Vegetation changes and human settlement of Easter Island during the last millennia: a multiproxy study of the Lake Raraku sediments. *Quaternary Science Reviews*. 72, pp. 36 - 48. 2013.
Type of production: Scientific paper **Format:** Journal
Impact source: SJR **Category:** Geology, Global and Planetary Sciences
Impact index in year of publication: 5.119 **Journal in the top 25%:** Yes
- 23** Núria Cañellas-Boltà; Valentí Rull; Alberto Sáez; Olga Margalef; Santiago Giralt; Juan Jose Pueyo; John Birks; Hilary Birks; Sergi Pla-Rabes. Macrofossils in Raraku Lake (Easter Island) integrated with sedimentary and geochemical records: towards a paleoecological synthesis. *Quaternary Science Reviews*. 34, pp. 113 - 126. 2012.
Type of production: Scientific paper **Format:** Journal
Impact source: SJR **Category:** Geology, Global and Planetary Sciences
Impact index in year of publication: 4.613 **Journal in the top 25%:** Yes
- 24** Valentí Rull; Núria Cañellas-Boltà; Alberto Sáez; Santiago Giralt; Sergi Pla; Olga Margalef. Paleoecology of Easter Island: evidence and uncertainties. *Earth-Science Reviews*. 99, pp. 50 - 60. 2010.
Type of production: Scientific paper **Format:** Journal
Impact source: SJR (SCI/SSCI) **Category:** Earth and Planetary Sciences (miscellaneous)
Impact index in year of publication: 6.563 **Journal in the top 25%:** Yes
- 25** 1; Marcos Fernández Martínez; Guillem Bagaria; Rosa Cañizares; Irene Raya; Catherine Preece; Olga Margalef; Xavier Domene. *Terra Negra: un sòl sobre pissarres al Montnegre*. L'Atzavara. ICHN, 2016.
Type of production: Popular science article **Format:** Journal
- 26** Josep Peñuelas; Jordi Sardans; Iolanda Filella; Marc Estiarte; Joan Llusà; Romà Ogaya; Jofre Carnicer; Mireia Bartrons; Albert Rivas-Ubach; Oriol Grau; Guillermo Peguero; Olga Margalef; Sergi Pla; Corina Stefanescu; Dolores Asensio; Catherine Preece; L. Liu; Alexandre Verger; L. Rico; Adrià Barbeta; [...]; Jaume Terradas. *Impactes del canvi climàtic sobre els ecosistemes terrestres catalans*. Tercer Informe sobre el canvi climàtic de Catalunya. Generalitat de Catalunya. Generalitat de Catalunya ISBN 9788499653174, 2016.
Type of production: Book chapter **Format:** Scientific and technical document or report



Works submitted to national or international conferences

- 1** **Title of the work:** Soil mineralogy effect on P cycle
Name of the conference: Imbalance-P conference (European Research Council Synergy grant ERC-2013-SyG-610028)
City of event: Paris, France
Date of event: 02/2017
- 2** **Title of the work:** Global patterns of phosphatase activity in natural soils
Name of the conference: Imbalance-P conference (European Research Council Synergy grant ERC-2013-SyG-610028)
City of event: Viena, Switzerland
Date of event: 02/2016
- 3** **Title of the work:** Phosphorus pathways in soil: Nutrient availability under the time perspective
Name of the conference: Imbalance-P conference (European Research Council Synergy grant ERC-2013-SyG-610028)
City of event: Barcelona, Spain
Date of event: 01/2015
Olga Margalef.
- 4** **Title of the work:** Millennial scale hydrological changes during MIS 3 stadial-interstadial transitions over Southern Pacific (Easter Island)
Name of the conference: International conference on Paleoclimatology
City of event: Sitges, Catalonia, Spain
Date of event: 09/2013
Olga Margalef; Isabel Cacho; Núria Cañellas-Boltà; Juan Jose Pueyo; Alberto Sáez; Blas Valero-Garcés; Santiago Giralte.
- 5** **Title of the work:** Environmental reconstruction of Lagoa Azul (Azores island, Portugal) and its implications for the NAO signal
Name of the conference: European Geoscience Union (EGU)
City of event: Viena, Switzerland
Date of event: 04/2013
Maria Jesus Rubio; Guiomar Sánchez; Alberto Sáez; Roberto Bao; Juan Jose Pueyo; Miriam Gomez-Paccard; Victor Gonçalves; Pedro Raposeiro; Pierre Francus; Armand Hernández; Olga Margalef; Teresa Buchaca; Sergi Pla-Rabes; Blas Valero-Garcés; Santiago Giralte.
- 6** **Title of the work:** Environmental reconstruction of Lagoa Azul (Azores island, Portugal) and its implications for the NAO signal
Name of the conference: European Geoscience Union (EGU)
City of event: Viena, Switzerland
Date of event: 04/2013
Maria Jesus Rubio; Guiomar Sánchez; Alberto Sáez; Roberto Bao; Juan Jose Pueyo; Miriam Gomez-Paccard; Victor Gonçalves; Pedro Raposeiro; Pierre Francus; Armand Hernández; Olga Margalef; Teresa Buchaca; Sergi Pla-Rabes; Blas Valero-Garcés; Santiago Giralte.
- 7** **Title of the work:** Millennial scale precipitation changes over Easter Island (Southern Pacific) during MIS 3: Inter-hemispheric connections during North Atlantic abrupt cold events
Name of the conference: European Geoscience Union (EGU)



City of event: Viena, Austria

Date of event: 04/2013

Olga Margalef; Isabel Cacho; Sergi Pla-Rabes; Núria Cañellas-Boltà; Juan Jose Pueyo; Alberto Sáez; Blas Valero-Garcés; Valentí Rull; Santiago Giralt.

8 Title of the work: Palaeoclimatic reconstruction of NAO in the Iberian Peninsula

Name of the conference: European Geoscience Union (EGU)

City of event: Viena, Austria

Date of event: 04/2013

Guiomar Sánchez; Maria J. Rubio; Olga Margalef; Manuel Toro; Ignacio Granados; Sergi Pla-Rabes; Pierre Francus; Armand Hernández; Ricardo Trigo; Blas Valero-Garcés; Javier Sigró; M. Brunett; Santiago Giralt.

9 Title of the work: Paleoecological study of Raraku Lake (Easter Island) during last 34000 years

Name of the conference: International Paleolimnology Symposium (IPS)

City of event: Glasgow, United Kingdom

Date of event: 2012

Núria Cañellas-Boltà; Valentí Rull; Alberto Sáez; Olga Margalef; Sergi Pla-Rabes; Santiago Giralt.

10 Title of the work: Lithostratigraphy and geochemistry of Rano Aroi (Easter Island, Chile) peatland infill as indicators of long-term wetland dynamics evolution

Name of the conference: 5th International Limnogeology congress (ILIC)

City of event: Konstanz, Germany

Date of event: 08/2011

Olga Margalef; Santiago Giralt; Sergi Pla; Hans Joosten; Núria Cañellas-Boltà; Alberto Sáez; Valentí Rull; Juan Jose Pueyo.

11 Title of the work: Quantitative lake level reconstruction of Lake Issyk-Kul for the last ca. 4000 cal. years BP: climatic and environmental implications

Name of the conference: 5th International Limnogeology congress (ILIC)

City of event: Konstanz, Germany

Date of event: 08/2011

Santiago Giralt; Alberto Sáez; Núria Cañellas-Boltà; Juan Jose Pueyo; Armand Hernández; Olga Margalef; Miriam Gomez-Paccard; Juan C. Larrasoña.

12 Title of the work: Climatic trends for the last 70 ky BP in the SE Pacific: the Rano Aroi and Rano Raraku records from Easter Island

Name of the conference: XVIII International Union for Quaternary Research (INQUA) Congress

City of event: Berna, Switzerland

Date of event: 07/2011

Olga Margalef; Núria Cañellas-Boltà; Santiago Giralt; Alberto Sáez; Sergi Pla; Valentí Rull; Juan Jose Pueyo.

13 Title of the work: Lake ecosystem responses to Late Quaternary environmental change in the SE Pacific from sedimentary pigment and isotopic geochemical data of Raraku Lake (Easter Island, 27°S)

Name of the conference: Symposium for European Freshwater Sciences

City of event: Girona, Spain

Date of event: 2011

Teresa Buchaca; Juan Jose Pueyo; Núria Cañellas-Boltà; Olga Margalef; Alberto Sáez; Santiago Giralt; Jordi Catalan.



- 14** **Title of the work:** Geochemical characterization of Rano Aroi peatbog for the last 70 kyr cal. BP (Easter Island, Central Pacific, 27 S): environmental and climatic implications
Name of the conference: 18th International Sedimentological Congress (ISC)
City of event: Mendoza, Argentina
Date of event: 09/2010
Olga Margalef; Santiago Giralt; Juan Jose Pueyo; Sergi Pla; Alberto Sáez; Núria Cañellas-Boltà.
- 15** **Title of the work:** Paleoecological and paleoclimatic studies in Easter Island (SE Pacific Ocean) during last 34000 years: preliminary results.
Name of the conference: 8th European Palaeobotanical and Palynology Conference
City of event: Budapest, Hungary
Date of event: 2010
Núria Cañellas-Boltà; Valentí Rull; Alberto Sáez; Santiago Giralt; Hilary H. Birks; Sergi Pla; Olga Margalef.

R&D management and participation in scientific committees

Organization of R&D activities

- 1** **Title of the activity:** Lacustrine coring in Açores Islands
Type of activity: Field campaign **Geographical area:** European Union
Convening entity: PALEONAO (CGL2010-15767)
Start date: 09/2011 **Duration:** 1 month
- 2** **Title of the activity:** Lacustrine and Wetland Coring in Easter Island
Type of activity: Field Campaign **Geographical area:** Easter Island (Chile)
Convening entity: GEOBILA (CGL2007-60932/BTE)
Start date: 09/2008 **Duration:** 15 days

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Ernst-Moritz-Ardnt Greifswald University **Type of entity:** University
Faculty, institute or centre: Botanic institute
City of entity: Greifswald, Mecklenburg-Vorpommern, Germany
Start-End date: 01/02/2013 - 30/03/2013 **Duration:** 2 months
Goals of the stay: Guest
- 2** **Entity:** Ernst-Moritz-Ardnt Greifswald University **Type of entity:** University
Faculty, institute or centre: Botanic institute
City of entity: Greifswald, Mecklenburg-Vorpommern, Germany
Start-End date: 02/05/2012 - 30/06/2012 **Duration:** 2 months
Goals of the stay: Doctorate
Provable tasks: Pollen counting over peat cores for environmental reconstruction
- 3** **Entity:** Ernst-Moritz-Ardnt Greifswald University **Type of entity:** University
Faculty, institute or centre: Botanic institute
City of entity: Greifswald, Mecklenburg-Vorpommern, Germany



Start-End date: 01/06/2011 - 01/07/2011

Duration: 1 month

Goals of the stay: Doctorate

Provable tasks: Mire of the World course attendance

4 Entity: University of Bergen

Type of entity: University

City of entity: Bergen, Norway

Start-End date: 09/2010 - 10/2010

Duration: 2 months

Goals of the stay: Doctorate

Provable tasks: Macrofossil counting over peat samples for paleoenvironmental reconstruction

5 Entity: University of Minnesota

Type of entity: University

City of entity: Minneapolis, United States of America

Start-End date: 11/2009 - 12/2009

Duration: 2 months

Goals of the stay: Doctorate

Provable tasks: Physical parameters analyses and FRX measurement over sediment cores

6 Entity: University of Bergen

Type of entity: University

City of entity: Bergen, Norway

Start-End date: 01/2007 - 06/2007

Duration: 6 months

Goals of the stay: Exchange student

Obtained grants and scholarships

1 Name of the grant: Beca predoctoral (JAE-Predoc)

Aims: Pre-doctoral

Awarding entity: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

Conferral date: 2008

Duration: 4 years

2 Name of the grant: Erasmus grant

Aims: Student exchange at University of Bergen

Conferral date: 2007

Duration: 6 months

Scientific societies and professional associations

Name of the society: Catalan Communication Science Association (ACCC)

City affiliation entity: Barcelona,

Start date: 01/2015

Summary of other achievements

Description of the achievement: Responsible for the scientific committee Catalan Communication Science Association assembly (scientific dissemination association)

Accrediting entity: Catalan Communication Science Association (ACCC)

Conferral date: 01/2015