



Ángel Rodés Bolumburu

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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.

Research interests: Geochronology, Cosmogenic Isotopes, Numerical Modeling, Earth Surface Processes, Glacial Geomorphology, Tectonic Geomorphology.

BSc (Hons) & MSc in Geology at the University of Zaragoza in 2002. I got my PhD Thesis at the University of Barcelona in 2008, supervised by Dr Raimon Pallàs and Prof. Didier Bourles, from the University of Barcelona and the Centre Européen de Recherche et d'Enseignement des Géosciences de l'Environnement (CEREGE, France). I participated in the installation of the **first laboratory of terrestrial cosmogenic isotopes in Spain** (Laboratori de Cosmonúclids Terrestres, UB). Several stays in France and the United States allowed me to incorporate the latest chemical and numerical techniques in the new laboratory.

After my PhD, I worked for the Topo-Iberia project in the Barcelona laboratory and the new ASTER acceleration spectrometer (CEREGE), where I learned how to interpret acceleration spectrometry data (AMS raw data) and master rock-to-age data reduction.

Since 2011 I am a **researcher and laboratory manager** at the Cosmogenic Isotope Analysis Facility (CIAF, recently renamed as NEIF-Cosmo), within the Scottish Universities Environmental Research Centre (SUERC, Scotland). I manage the day-to-day operation of sample preparation at the Cosmo laboratories (mineral separation, ^{10}Be - ^{26}Al , ICP-OES, and ^{36}Cl laboratories). This requires significant management responsibility for 1 PDRA and 2 technicians. Typically **10 competitive research projects** are allocated to the Facility **every year**, which require ~250 AMS analyses and training of 3 to 5 student and post-doctoral research visitors through the **CIAF student training program**. I provide support to PIs during the proposal design, writing, and submission stage, and contribute significantly to joint publications. My role requires scheduling analysis time with the SUERC Accelerator Mass Spectrometry and the Noble Gas Isotope laboratories.

In addition to the lab management, I lead the development of new chemical protocols (e.g. routine ^{10}Be analysis of olivine: Carracedo et al. 2019), standard materials (e.g. preparing a low ^{10}Be carrier from phenakite that was distributed internationally), new numerical models (e.g. calculators that integrate stable and radioactive cosmonuclides: Sudgen et al., 2017), and new applications (e.g. agriculture: Rodés & Evans, 2020) that have demonstrably shaped the discipline internationally.

I also designed a **numerical modelling course for Geologists and Geochemists**, which I started teaching in 2019. This has allowed me to position myself, not only as an international expert in landscape geochronology but also as a trainer of researchers at the European level.



My role as a geochronologist is key to the success of the projects I take part in, shifting my research towards technical and analytical advances. This is reflected in a high rate of scientific production and award generation. **The sum of funding allocated to competitive and non-competitive R&D&I projects and contracts in which I have participated exceeds €9M.**

AQU accreditations: Lector, Acreditació de Recerca

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.

Participated in:

- 7 R&D projects funded through **competitive calls** (total **5.7M€**)
- 5 R&D non-competitive **contracts** (total **4.1M€**)

Publication metrics:

Web of Science ResearcherID: C-9228-2011

Publications in Web of Science: 40

Sum of times cited: 699

H-index: 15

Updated: 10/02/2020

Invited speaker:

- Seminar at the School of Geography, Earth & Environmental Sciences, University of Plymouth, 2012.
- ESF EARTHTIME-EU meeting, CENIEH, 2013.
- Scottish Workshop for Cosmogenic Practitioners, University of Edinburgh, 2014.
- University of Glasgow-São Paulo State University (UoG-UNESP) Geoscience Research Symposium, 2015.
- Seminar at the State Key Laboratory of Environmental Geochemistry. Institute Of Geochemistry, Chinese Academy of Sciences (SKLEG), Guiyang, P.R.China, 2019.

Advisor on commissioning new laboratories in UNESP (Brazil), CENIEH (Spain), Guiyang (China), and iThemba LABS (South Africa).

Regularly asked to review CIAF project applications and manuscripts in international journals (e.g. Nature, Earth and Planetary Science Letters, Geology, Quaternary Geochronology) and member of the **editorial board of Geosciences Journal** (MDPI).

Secretary of the **CIAF Steering Committee** between 2012 and 2018.

Currently co-directing a **PhD** student at the University of Edinburgh.



Ángel Rodés Bolumburu

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Current professional situation

Employing entity: University of Glasgow **Type of entity:** University
Department: NEIF-Cosmo, Scottish Universities Environmental Research Centre (SUERC)
Professional category: Research Scientist
Start date: 01/08/2020
Type of contract: Permanent employment **Dedication regime:** Full time contract
Primary (UNESCO code): 250304 - Geochronology and radio isotopes
Secondary (UNESCO code): 250600 - Geology
Identify key words: Geomorphology

Previous positions and activities

	Employing entity	Professional category	Start date
1	University of Glasgow - Scottish Universities Environmental Research Centre	Research Associate, NERC Cosmogenic Isotope Analysis Facility	01/08/2012
2	University of Glasgow - Scottish Universities Environmental Research Centre	Post-Doctoral Research Associate, NERC Cosmogenic Isotope Analysis Facility	01/02/2011
3	Universitat de Barcelona	Técnico superior en el proyecto CDD20006-0041 'Topo-Iberia (Programa Consolider Ingenio 2006)	01/02/2010
4	Universitat de Barcelona	Profesor Asociado a tiempo parcial	01/02/2009
5	Universitat de Barcelona	Profesor Asociado a tiempo parcial	01/10/2008
6	Universitat de Barcelona	Técnico especializado en el proyecto CDD20006-0041 'Topo-Iberia (Programa Consolider Ingenio 2006)	01/02/2008
7	Universitat de Barcelona	Becario FPI	01/05/2003



	Employing entity	Professional category	Start date
8	Universidad de Zaragoza	Beca de colaboración	29/11/2001

- 1** **Employing entity:** University of Glasgow - Scottish Universities Environmental Research Centre
Professional category: Research Associate, NERC Cosmogenic Isotope Analysis Facility
Start-End date: 01/08/2012 - 31/07/2020 **Duration:** 8 years
Type of entity: University
- 2** **Employing entity:** University of Glasgow - Scottish Universities Environmental Research Centre
Professional category: Post-Doctoral Research Associate, NERC Cosmogenic Isotope Analysis Facility
Start-End date: 01/02/2011 - 31/07/2012 **Duration:** 8 years
Type of entity: University
- 3** **Employing entity:** Universitat de Barcelona
Professional category: Técnico superior en el proyecto CDD20006-0041 'Topo-Iberia (Programa Consolider Ingenio 2006)
Start date: 01/02/2010 **Duration:** 1 year
- 4** **Employing entity:** Universitat de Barcelona
Professional category: Profesor Asociado a tiempo parcial
Start date: 01/02/2009 **Duration:** 7 months - 14 days
- 5** **Employing entity:** Universitat de Barcelona
Professional category: Profesor Asociado a tiempo parcial
Start date: 01/10/2008 **Duration:** 4 months
- 6** **Employing entity:** Universitat de Barcelona
Professional category: Técnico especializado en el proyecto CDD20006-0041 'Topo-Iberia (Programa Consolider Ingenio 2006)
Start date: 01/02/2008 **Duration:** 3 years
- 7** **Employing entity:** Universitat de Barcelona
Professional category: Becario FPI
Start date: 01/05/2003 **Duration:** 3 years - 11 months - 1 day
- 8** **Employing entity:** Universidad de Zaragoza
Professional category: Beca de colaboración
Start date: 29/11/2001 **Duration:** 1 year - 1 day



Education

University education

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

University degree: Diplomatura / Licenciatura / Grado
Name of qualification: Licenciado en Ciencias (Geología)
Degree awarding entity: Universidad de Zaragoza
Date of qualification: 01/09/2002

Doctorates

Doctorate programme: La última deglaciación en los Pirineos: datación de superficies de exposición mediante 10Be, y mode
Degree awarding entity: Universitat de Barcelona
Date of degree: 29/01/2008
Thesis title: La última deglaciación en los Pirineos: Datación de superficies de exposición mediante 10Be, y modelado numérico de paleoglaciares
Thesis director: Raimon Pallàs Serra, Didier Bourlès

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

- | | | |
|----------|---|--|
| 1 | Training title: Supervisory Skills Workshop
Awarding entity: Glasgow University
End date: 22/02/2019 | Type of entity: University
Duration in hours: 7 hours |
| 2 | Training title: Meeting the treat from fire
Awarding entity: University of Glasgow
End date: 2017 | Type of entity: University
Duration in hours: 2 hours |
| 3 | Training title: Equality and Diversity Essentials
Awarding entity: University of Glasgow
End date: 2015 | Type of entity: University
Duration in hours: 4 hours |
| 4 | Training title: Hydrofluoric Acid Awareness safety course
Awarding entity: Stewart First Aid Training Ltd
End date: 2015 | Duration in hours: 4 hours |
| 5 | Training title: Introduction to Programming using MATLAB
Awarding entity: University of Glasgow
End date: 2014 | Duration in hours: 24 hours |



- 6 Training title:** Meeting the treat from fire
Awarding entity: University of Glasgow
End date: 2014
Type of entity: University
Duration in hours: 2 hours
- 7 Training title:** ICP-Optima Series ICP
Awarding entity: Perkin Elmer
End date: 2012
Type of entity: Business
Duration in hours: 200 hours
- 8 Training title:** Introduction to t4 Web Publishing
Awarding entity: University of Glasgow
End date: 2012
Type of entity: University
Duration in hours: 6 hours
- 9 Training title:** Jornades sobre Prevenció de Riscos als laboratoris de recerca. Oficina de Seguretat, Salut i Medi Ambient (OSSMA)
Awarding entity: Universitat de Barcelona
End date: 2003
Type of entity: University
Duration in hours: 16 hours
- 10 Training title:** I Simposio Ibérico sobre Geología, Patrimonio y Sociedad
Awarding entity: Universitat Politècnica de Catalunya
End date: 2000
Type of entity: University
Duration in hours: 20 hours
- 11 Training title:** Aparatos Topográficos
Awarding entity: Academia General Militar
End date: 1999
Type of entity: Militar
Duration in hours: 30 hours

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	A1	B1	A1	A1	A1
Catalan	C1	C2	C1	C1	C1
Spanish	C2	C2	C2	C2	C2
English	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- 1 Type of teaching:** Official teaching
Name of the course: Geodinámica Externa
Type of programme: Engineering
University degree: Ingeniería Geológica
Start date: 2008
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 46
Entity: Universitat de Barcelona
Faculty, institute or centre: Facultat de Geologia
City of entity: Barcelona, Catalonia, Spain
Type of teaching: Practical work (classroom-problems)
End date: 2009
Type of entity: University



- 2** **Type of teaching:** Official teaching
Name of the course: Geodinámica Externa
Type of programme: Bachelor's degree
University degree: Licenciatura de Geología
Start date: 2008
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 5
Entity: Universitat de Barcelona
Faculty, institute or centre: Facultat de Geologia
City of entity: Barcelona, Catalonia, Spain
Type of teaching: Practical work (classroom-problems)
End date: 2009
Type of entity: University
- 3** **Type of teaching:** Official teaching
Name of the course: Topografía, Fotografía Aérea y Teledetección
Type of programme: Bachelor's degree
University degree: Licenciatura de Geología
Start date: 2008
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 60
Entity: Universitat de Barcelona
Faculty, institute or centre: Facultat de Geologia
City of entity: Barcelona, Catalonia, Spain
Type of teaching: Practical work (classroom-problems)
End date: 2009
Type of entity: University

Experience supervising doctoral thesis and/or final year projects

Project title: Reconstructing glacial history and landscape evolution in Patagonia
Entity: University of Edinburgh
Student: Tancrede Leger
Date of reading: 28/02/2022
Type of entity: University

Other activities/achievements not included above

- 1** **Description of the activity:** MATLAB for Geoscientists
Organising entity: SUERC
End date: 27/11/2019
- 2** **Description of the activity:** CIAF Student Training Program
City of activity: East Kilbride, South Western Scotland, United Kingdom
Organising entity: SUERC
Type of entity: University Research Institute
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:** Reconstructing glacial history and landscape evolution in Patagonia
Entity where project took place: University of Edinburgh **Type of entity:** University
City of entity: Edinburgh, United Kingdom
Name principal investigator (PI, Co-PI....): Andrew S. Hein; Robert Bingham; Angel Rodes
Nº of researchers: 3
Start-End date: 01/08/2018 - 28/02/2022
Total amount: 50.000 €
- 2** **Name of the project:** Resolving the timing of the local Last Glacial Maximum and penultimate glaciation in the understudied northeast of Patagonia
Entity where project took place: University of Edinburgh
City of entity: Edinburgh, United Kingdom
Name principal investigator (PI, Co-PI....): Andrew Hein; Angel Rodes; Rob Bingham; Tancrede Leger
Nº of researchers: 4
Funding entity or bodies: British Geological Survey
Start-End date: 08/07/2020 - 22/12/2021
Total amount: 43.268 €
- 3** **Name of the project:** Defining the Last Glacial Maximum of the Patagonian Ice Sheet and its termination in its understudied northeast sector (43°S)
Entity where project took place: University of Edinburgh
City of entity: Edinburgh, United Kingdom
Name principal investigator (PI, Co-PI....): Andrew Hein; Dan Goldberg; Rob Bingham; Angel Rodes
Nº of researchers: 4
Funding entity or bodies: Natural Environment Research Council **Type of entity:** State agency
City funding entity: Keyworth, United Kingdom
Start-End date: 21/06/2019 - 22/12/2020
Total amount: 64.176 €
- 4** **Name of the project:** Servicio de análisis de muestras mediante la técnica de datación de núclidos cosmogénicos. (Licitación 2018/2501SR03)
Entity where project took place: SUERC **Type of entity:** R&D Centre
City of entity: East Kilbride, South Western Scotland, United Kingdom
Name principal investigator (PI, Co-PI....): Ángel Rodés
Nº of researchers: 1
Funding entity or bodies: CENIEH **Type of entity:** R&D Centre



City funding entity: Burgos, Castile-La Mancha, Spain

Start-End date: 2018 - 2019

Total amount: 93.000 €

5 Name of the project: Temporal Variability in Sediment Flux of the Ganga River Using Detrital 10Be

Entity where project took place: University of Edinburgh

City of entity: Edinburgh, United Kingdom

Name principal investigator (PI, Co-PI....): Hugh Sinclair; Andy Hein; Mikael Attal; Angel Rodes

Nº of researchers: 4

Funding entity or bodies:

Natural Environment Research Council

Type of entity: State agency

City funding entity: Keyworth, United Kingdom

Start-End date: 16/01/2015 - 17/01/2016

Total amount: 30.816 €

6 Name of the project: Ice free enclaves in West Greenland during the last glacial cycle?

Entity where project took place: Durham University

City of entity: Durham, United Kingdom

Name principal investigator (PI, Co-PI....): David Roberts; Angel Rodes

Nº of researchers: 2

Funding entity or bodies:

Scottish Universities Environmental Research Centre **Type of entity:** State agency

City funding entity: Keyworth, United Kingdom

Start-End date: 11/07/2012 - 01/02/2014

Total amount: 14.328 €

7 Name of the project: The pattern, timing and dynamics of glaciation in the Cairngorm mountains

Entity where project took place: University of Loughborough

City of entity: Loughborough, United Kingdom

Name principal investigator (PI, Co-PI....): David Graham; Angel Rodes

Nº of researchers: 2

Funding entity or bodies:

Natural Environment Research Council

Type of entity: State agency

City funding entity: Keyworth, United Kingdom

Start-End date: 11/07/2012 - 12/07/2013

Total amount: 6.432 €

8 Name of the project: Geociencias en Iberia: Estudios integrados de topografía y evolución 4D.
(Topo-Iberia)

Entity where project took place: Universitat de Barcelona

Name principal investigator (PI, Co-PI....): Josep Gallart Muset

Nº of researchers: 100

Funding entity or bodies:

CAYCIT (Comisión Asesora de Investigación Científica y Técnica. Ministerio de Educación y Ciencia).

Start date: 2006

Total amount: 5.400.000 €



- 9 Name of the project:** Estudio Paleosísmico mediante Isotopos Cosmogénicos.
Entity where project took place: Universitat de Barcelona
Name principal investigator (PI, Co-PI....): Pedro Francisco Santanach Prat
Nº of researchers: 7
Funding entity or bodies:
 Comisión Interministerial de Ciencia y Tecnología (CICYT)
Start date: 2002
Total amount: 91.300 €

R&D non-competitive contracts, agreements or projects with public or private entities

- 1 Name of the project:** Análisis comercial de muestras mediante isótopos cosmogénicos.
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Ángel Rodés
Nº of researchers: 1
Funding entity or bodies:
 CENIEH **Type of entity:** R&D Centre
City funding entity: Burgos, Castile and León, Spain
Start date: 2020 **Duration:** 1 year
Total amount: 34.000 €
- 2 Name of the project:** Servicio en colaboración para la datación de muestras de superficies glaciares mediante Be-10.
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Ángel Rodés
Nº of researchers: 1
Funding entity or bodies:
 Universidad Nacional de Educación a Distancia **Type of entity:** University
Start date: 2020 **Duration:** 1 year
Total amount: 2.357 €
- 3 Name of the project:** Análisis comercial de muestras mediante isótopos cosmogénicos.
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Ángel Rodés
Nº of researchers: 1
Funding entity or bodies:
 CENIEH **Type of entity:** R&D Centre
City funding entity: Burgos, Castile and León, Spain
Start date: 2019 **Duration:** 1 year
Total amount: 7.000 €
- 4 Name of the project:** National Environmental Isotope Facility – Cosmogenic nuclides (NEIF-Cosmo)
Type of project: Basic research (including archaeological digs, etc)
Entity where project took place: Scottish Universities Environmental Research Centre (SUERC)
Degree of contribution: Researcher
Entity where project took place: Scottish Universities Environmental Research Centre (SUERC) **Type of entity:** University Research Institute



City of entity: East Kilbride, United Kingdom

Name principal investigator (PI, Co-PI....): Fabel, Derek; Rodes, Angel; Gheorghiu, Delia; Davidson, Allan

Nº of researchers: 3

Nª people/year: 3

Funding entity or bodies:

UK Research and Innovation

Type of entity: Public Research Body

City funding entity: Swindon, Outer London, United Kingdom

Type of project: Cooperation

Name of the programme: Cosmogenic Isotope Analysis Facility

Code according to the funding entity: NERC-CIAF

Start date: 2019

Duration: 5 years

Total amount: 2.662.000 €

5 Name of the project: Servicio en colaboración de preparación química de muestras para análisis de Be-10 mediante AMS.

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Ángel Rodés

Nº of researchers: 1

Funding entity or bodies:

Universidad de Castilla la Mancha

Type of entity: University

City funding entity: Ciudad Real, Castile and León, Spain

Start date: 2019

Duration: 1 year

Total amount: 7.000 €

6 Name of the project: Cosmogenic Isotope Analysis Facility

Type of project: Basic research (including archaeological digs, etc)

Entity where project took place: Scottish Universities Environmental Research Centre (SUERC)

Degree of contribution: Researcher

Entity where project took place: Scottish Universities Environmental Research Centre (SUERC)

Type of entity: University Research Institute

City of entity: East Kilbride, United Kingdom

Name principal investigator (PI, Co-PI....): Fabel, Derek; Rodes, Angel; Gheorghiu, Delia; Davidson, Allan

Nº of researchers: 3

Nª people/year: 3

Funding entity or bodies:

Natural Environment Research Council

Type of entity: State agency

City funding entity: Keyworth, United Kingdom

Type of project: Cooperation

Name of the programme: Cosmogenic Isotope Analysis Facility

Code according to the funding entity: NERC-CIAF

Start date: 2016

Duration: 3 years

Total amount: 1.560.000 €

7 Name of the project: Cosmogenic Isotope Analysis Facility

Type of project: Basic research (including archaeological digs, etc)

Entity where project took place: Scottish Universities Environmental Research Centre (SUERC)

Degree of contribution: Researcher

Type of entity: University Research Institute



Entity where project took place: Scottish Universities Environmental Research Centre (SUERC)

City of entity: East Kilbride, United Kingdom

Name principal investigator (PI, Co-PI....): Ellam, Rob; Rodes, Angel; Davidson, Allan

Nº of researchers: 3

Nª people/year: 3

Funding entity or bodies:

Natural Environment Research Council

Type of entity: State agency

City funding entity: Keyworth, United Kingdom

Type of project: Cooperation

Name of the programme: Cosmogenic Isotope Analysis Facility

Code according to the funding entity: NERC-CIAF

Start date: 2014

Duration: 3 years - 238 months

Total amount: 1.008.000 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Daniel Evans; Ángel Rodés; Andrew Tye. The sensitivity of cosmogenic radionuclide analysis to soil bulk density: Implications for soil formation rates. *European Journal of Soil Science*. 72 - 1, pp. 174 - 182. 2021. Available on-line at: <<https://onlinelibrary.wiley.com/doi/abs/10.1111/ejss.12982>>.

Type of production: Scientific paper **Format:** Journal
- 2** Ángel Rodés; Daniel L. Evans. Cosmogenic soil production rate calculator. *MethodsX*. 7, pp. 100753 - 100753. 2020. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S2215016119303292>>. ISSN 2215-0161

Type of production: Scientific paper **Format:** Journal
- 3** T. P. Lane; Ø. Paasche; B. Kvisvik; K. R. Adamson; Á. Rodés; H. Patton; N. Gomez; D. Gheorghiu; J. Bakke; A. Hubbard. Elevation Changes of the Fennoscandian Ice Sheet Interior During the Last Deglaciation. *Geophysical Research Letters*. 47 - 14, pp. e2020GL088796 - e2020GL088796. 2020. Available on-line at: <<https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2020GL088796>>.

Type of production: Scientific paper **Format:** Journal
- 4** Monika Mendelova; Andrew S. Hein; Ángel Rodés; Sheng Xu. Extensive mountain glaciation in central Patagonia during Marine Isotope Stage 5. *Quaternary Science Reviews*. 227, pp. 105996 - 105996. 2020.

Type of production: Scientific paper **Format:** Journal
- 5** Monika Mendelova; Andrew S. Hein; Ángel Rodés; Rachel K. Smedley; Sheng Xu. Glacier expansion in central Patagonia during the Antarctic Cold Reversal followed by retreat and stabilisation during the Younger Dryas. *Quaternary Science Reviews*. 227, pp. 106047 - 106047. 2020.

Type of production: Scientific paper **Format:** Journal

- 6** Theodoros Karampaglidis; Alfonso Benito-Calvo; Angel Rodés; Regis Braucher; Alfredo Pérez-González; Josep Pares; Fin Stuart; Luigia {Di Nicola}; Didier Bourles. Pliocene endorheic-exhoreic drainage transition of the Cenozoic Madrid Basin (Central Spain). *Global and Planetary Change*. 194, pp. 103295 - 103295. 2020. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0921818120301867>>. ISSN 0921-8181
Type of production: Scientific paper **Format:** Journal
- 7** Bethan J. Davies; Christopher M. Darvill; Harold Lovell; Jacob M. Bendle; Julian A. Dowdeswell; Derek Fabel; Juan-Luis García; Alessa Geiger; Neil F. Glasser; Delia M. Gheorghiu; Stephan Harrison; Andrew S. Hein; Michael R. Kaplan; Julian R.V. Martin; Monika Mendelova; Adrian Palmer; Mauri Pelto; Ángel Rodés; Esteban A. Sagredo; Rachel K. Smedley; John L. Smellie; Varyl R. Thorndycraft. The evolution of the Patagonian Ice Sheet from 35 ka to the present day (PATICE). *Earth-Science Reviews*. 204, pp. 103152 - 103152. 2020. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0012825219306233>>. ISSN 0012-8252
Type of production: Scientific paper **Format:** Journal
- 8** Duna C. Roda-Boluda; Mitch D'Arcy; Alexander C. Whittaker; Delia M. Gheorghiu; Ángel Rodés. 10Be erosion rates controlled by transient response to normal faulting through incision and landsliding. *Earth and Planetary Science Letters*. 507, pp. 140 - 153. 2019. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0012821X18306915>>. ISSN 0012-821X
Type of production: Scientific paper **Format:** Journal
- 9** D. L. Evans; J. N. Quinton; A. M. Tye; V.A. Rodés; J. A. C. Davies; S. M. Mudd; T. A. Quine. Arable soil formation and erosion: a hillslope-based cosmogenic nuclide study in the United Kingdom. *SOIL*. 5 - 2, pp. 253 - 263. 2019. Available on-line at: <<https://www.soil-journal.net/5/253/2019/>>.
Type of production: Scientific paper **Format:** Journal
- 10** Daniel H. de Souza; Finlay M. Stuart; Ángel Rodés; Fabiano N. Pupim; Peter C. Hackspacher. Controls on the erosion of the continental margin of southeast Brazil from cosmogenic 10Be in river sediments. *Geomorphology*. 330, pp. 163 - 176. 2019. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0169555X19300273>>. ISSN 0169-555X
Type of production: Scientific paper **Format:** Journal
- 11** A. Carracedo; Á. Rodés; J.L. Smellie; F.M. Stuart. Episodic erosion in West Antarctica inferred from cosmogenic 3He and 10Be in olivine from Mount Hampton. *Geomorphology*. 327, pp. 438 - 445. 2019. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0169555X18304689>>. ISSN 0169-555X
Type of production: Scientific paper **Format:** Journal
- 12** G. E. Campbell; R. T. Walker; K. Abdrakhmatov; S. Carolin; A. S. Carr; J. R. Elliott; J. Jackson; D. Mackenzie; M. Rizza; A. Rodes. Rapid Late Quaternary Slip, Repeated Prehistoric Earthquake Rupture, and Widespread Landsliding Associated With the Karakudzhur Thrust, Central Kyrgyz Tien Shan. *Tectonics*. 38 - 11, pp. 3740 - 3764. 2019. Available on-line at: <<https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2018TC005433>>.
Type of production: Scientific paper **Format:** Journal
- 13** Martin Stokes; Anne Mather; Angel Rodes; Samantha Kearsey; Shaun Lewin. Anatomy, Age and Origin of an Intramontane Top Basin Surface (Sorbas Basin, Betic Cordillera, SE Spain). *Quaternary*. 1 - 2, 2018. Available on-line at: <<http://www.mdpi.com/2571-550X/1/2/15>>. ISSN 2571-550X
Type of production: Scientific paper **Format:** Journal
- 14** David E. Sugden; Andrew S. Hein; John Woodward; Shasta M. Marrero; Ángel Rodés; Stuart A. Dunning; Finlay M. Stuart; Stewart P.H.T. Freeman; Kate Winter; Matthew J. Westoby. Corrigendum to "The million-year evolution of the glacial trimline in the southernmost Ellsworth Mountains, Antarctica" [*Earth and Planetary Science Letters* 469 (2017) 42–52]. *Earth and Planetary Science Letters*. 502, pp. 291 - 292. 2018. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0012821X18305193>>. ISSN 0012-821X
Type of production: Scientific paper **Format:** Journal



- 15** E. H. Dingle; H. D. Sinclair; M. Attal; Á Rodés; V. Singh. Temporal variability in detrital ^{10}Be concentrations in a large Himalayan catchment. *Earth Surface Dynamics*. 6 - 3, pp. 611 - 635. 2018. Available on-line at: <<https://www.earth-surf-dynam.net/6/611/2018/>>.
Type of production: Scientific paper **Format:** Journal
- 16** Laurence M Dyke; Anna LC Hughes; Camilla S Andresen; Tavi Murray; John F Hiemstra; Anders A Bjørk; Ángel Rodés. The deglaciation of coastal areas of southeast Greenland. *The Holocene*. 28 - 9, pp. 1535 - 1544. 2018. Available on-line at: <<https://doi.org/10.1177/0959683618777067>>.
Type of production: Scientific paper **Format:** Journal
- 17** Philip D. Hughes; David Fink; Ángel Rodés; Cassandra R. Fenton; Toshiyuki Fujioka. Timing of Pleistocene glaciations in the High Atlas, Morocco: New ^{10}Be and ^{36}Cl exposure ages. *Quaternary Science Reviews*. 180, pp. 193 - 213. 2018. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0277379117306091>>. ISSN 0277-3791
Type of production: Scientific paper **Format:** Journal
- 18** Peter Wilson; Ángel Rodés; Alan Smith. Valley glaciers persisted in the Lake District, north-west England, until 16–15 ka as revealed by terrestrial cosmogenic nuclide (^{10}Be) dating: a response to Heinrich event 1?. *Journal of Quaternary Science*. 33 - 5, pp. 518 - 526. 2018. Available on-line at: <<https://onlinelibrary.wiley.com/doi/abs/10.1002/jqs.3030>>.
Type of production: Scientific paper **Format:** Journal
- 19** David W. Southall; Peter Wilson; Paul Dunlop; Christoph Schnabel; Ángel Rodés; Pauline Gulliver; Sheng Xu. Age evaluation and causation of rock-slope failures along the western margin of the Antrim Lava Group (ALG), Northern Ireland, based on cosmogenic isotope (^{36}Cl) surface exposure dating. *Geomorphology*. 285, pp. 235 - 246. 2017. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0169555X16311096>>. ISSN 0169-555X
Type of production: Scientific paper **Format:** Journal
- 20** Peter Wilson; Tom Lord; Ángel Rodés. Glaciation and deglaciation age of the Stump Cross area, Yorkshire Dales, northern England, determined by terrestrial cosmogenic nuclide (^{10}Be) dating. *Cave and Karst Science*. 44 - 1, pp. 76 - 81. 2017.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 21** Bethan J. Davies; Michael J. Hambrey; Neil F. Glasser; Tom Holt; Ángel Rodés; John L. Smellie; Jonathan L. Carrivick; Simon P.E. Blockley. Ice-dammed lateral lake and epishelf lake insights into Holocene dynamics of Marguerite Trough Ice Stream and George VI Ice Shelf, Alexander Island, Antarctic Peninsula. *Quaternary Science Reviews*. 177, pp. 189 - 219. 2017. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0277379117304651>>. ISSN 0277-3791
Type of production: Scientific paper **Format:** Journal
- 22** Colin K. Ballantyne; Derek Fabel; Delia Gheorghiu; Ángel Rodés; Richard Shanks; Sheng Xu. Late Quaternary glaciation in the Hebrides sector of the continental shelf: cosmogenic nuclide dating of glacial events on the St Kilda archipelago. *Boreas*. 46 - 4, pp. 605 - 621. 2017. Available on-line at: <<https://onlinelibrary.wiley.com/doi/abs/10.1111/bor.12242>>.
Type of production: Scientific paper **Format:** Journal
- 23** Andrew S. Hein; Antoine Coge; Christopher M. Darvill; Monika Mendelova; Michael R. Kaplan; Frédéric Herman; Tibor J. Dunai; Kevin Norton; Sheng Xu; Marcus Christl; Ángel Rodés. Regional mid-Pleistocene glaciation in central Patagonia. *Quaternary Science Reviews*. 164, pp. 77 - 94. 2017. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S027737911630734X>>. ISSN 0277-3791
Type of production: Scientific paper **Format:** Journal



- 24** David E. Sugden; Andrew S. Hein; John Woodward; Shasta M. Marrero; Ángel Rodés; Stuart A. Dunning; Finlay M. Stuart; Stewart P.H.T. Freeman; Kate Winter; Matthew J. Westoby. The million-year evolution of the glacial trimline in the southernmost Ellsworth Mountains, Antarctica. *Earth and Planetary Science Letters*. 469, pp. 42 - 52. 2017. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0012821X17301851>>. ISSN 0012-821X
Type of production: Scientific paper **Format:** Journal
- 25** T Karampaglidis; A Benito-Calvo; Á Rodés; A Pérez-González; L Miguens-Rodríguez. Datación de dos terrazas rocosas del valle del Río Lozoya (Comunidad de Madrid, España) mediante los isótopos cosmogénicos ¹⁰Be y ²⁶Al. *Cuaternario y Geomorfología*. 30 - 1-2, pp. 37 - 47. 2016.
Type of production: Scientific paper **Format:** Journal
- 26** R.T. Walker; M.M. Khatib; A. Bahroudi; A. Rodés; C. Schnabel; M. Fattahi; M. Talebian; E. Bergman. Co-seismic, geomorphic, and geologic fold growth associated with the 1978 Tabas-e-Golshan earthquake fault in eastern Iran. *Geomorphology*. 237, pp. 98 - 118. 2015. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0169555X13001037>>. ISSN 0169-555X
Type of production: Scientific paper **Format:** Journal
- 27** Christopher M. Darvill; Michael J. Bentley; Chris R. Stokes; Andrew S. Hein; Ángel Rodés. Extensive MIS 3 glaciation in southernmost Patagonia revealed by cosmogenic nuclide dating of outwash sediments. *Earth and Planetary Science Letters*. 429, pp. 157 - 169. 2015. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0012821X15004653>>. ISSN 0012-821X
Type of production: Scientific paper **Format:** Journal
- 28** Ximena Moreno; Eulalia Masana; Raimon Pallas; Eulalia Gracia; Ángel Rodés; Jaume Bordonau. Quaternary tectonic activity of the Carboneras Fault in the La Serrata range (SE Iberia): Geomorphological and chronological constraints. *Tectonophysics*. 2015. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0040195115004436>>. ISSN 0040-1951
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Type of production: Scientific paper **Format:** Journal
- 30** Timothy P. Lane; David H. Roberts; Brice R. Rea; Colm Ó Cofaigh; Andreas Vieli.; Angel Rodés. Controls upon the Last Glacial Maximum deglaciation of the northern Uummannaq Ice Stream System, West Greenland. *Quaternary Science Reviews*. (United Kingdom): Elsevier Ltd, 2014. Available on-line at: <[10.1016/j.quascirev.2013.09.013](http://dx.doi.org/10.1016/j.quascirev.2013.09.013)>. ISSN 0277-3791
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- 32** Laurence M. Dyke; Anna L.C. Hughes; Tavi Murray; John F. Hiemstra; Camilla S. Andresen; Ángel Rodés. Evidence for the asynchronous retreat of large outlet glaciers in southeast Greenland at the end of the last glaciation. *Quaternary Science Reviews*. 99 - 0, pp. 244 - 259. 2014. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0277379114002194>>. ISSN 0277-3791
Type of production: Scientific paper **Format:** Journal



- 33** N.F. Glasser; B.J. Davies; J.L. Carrivick; A. Rodés; M.J. Hambrey; J.L. Smellie; E. Domack. Ice-stream initiation, duration and thinning on James Ross Island, northern Antarctic Peninsula. *Quaternary Science Reviews*. 86 - 0, pp. 78 - 88. 2014. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0277379113004551>>. ISSN 0277-3791
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Type of production: Scientific paper **Format:** Journal
- 35** Roberts, D.H.; Rea, B.R.; Lane, T.P.; Schnabel, C.; Rodés, A. New constraints on Greenland ice sheet dynamics during the last glacial cycle: evidence from the Uummannaq ice stream system. *Journal of Geophysical Research*. (United States of America): American Geophysical Union, 2013. Available on-line at: <10.1002/jgrf.20032>. ISSN 0148-0227
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- 36** Loreto Anton; Angel Rodes; Gerardo De Vicente; Raimon Pallas; Daniel Garcia-Castellanos; Finlay M. Stuart; Regis Braucher; Didier Bourles. Quantification of fluvial incision in the Duero Basin (NW Iberia) from longitudinal profile analysis and terrestrial cosmogenic nuclide concentrations. *Geomorphology*. 165-166 - 0, pp. 50 - 61 10.1016/j.geomorph.2011.12.036. 2012. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0169555X11006519>>. ISSN 0169-555X
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- 38** Gràcia, E.; Vizcaíno, A.; Escutia, C.; Asioli, A.; Rodés, A.; Pallàs, R.; Garcia Orellana, J.; Lebreiro, S.; Goldfinger, C. Holocene earthquake record offshore Portugal (SW Iberia): Testing turbidite paleoseismology in a slow convergence margin. *Quaternary Science Reviews*. 29, pp. 1156 - 1172. (United Kingdom): Elsevier Ltd, 2010. ISSN 0277-3791
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- 39** Pallàs, R.; Rodés, Á.; Braucher, R.; Bourlès, D.; Delmas, M.; Calvet, M.; Gunnell, Y.. Small, isolated glacial catchments as priority targets for cosmogenic surface exposure dating of Pleistocene climate fluctuations, southeastern Pyrenees. *Geology*. 38 - 10, pp. 891 - 894. (United States of America): Geological Society of America, 2010. ISSN 0091-7613
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- 40** X. Moreno; E. Gràcia; E. Masana; Á. Rodés; R. Bartolomé; R. Pallàs. Paleoseismological study along the Carboneras Fault: onshore-offshore evidences of recent tectonic activity. *Archeoseismology and Palaeoseismology in the Alpine-Himalayan Collisional Zone. Abstract Volume. 1st INQUA-IGCP-567 International Workshop on Earthquake Archaeology and Palaeoseismology, Baelo Claudia, Spain (2009)*. 1 - 1, pp. 91 - 94. (Spain): Sección de Publicaciones de la Escuela Técnica Superior de Ingenieros Industriales. Universidad Politécnica de Madrid., 2009. ISBN 978-84-7484-217-3
Type of production: Scientific paper **Format:** Book
- 41** Rodés, A.; Pallàs, R.; Braucher, R.; Bourlès, D.. La última deglaciación en los Pirineos a partir de datación de superficies de exposición mediante ¹⁰Be. *Geo-Temas*. 10, pp. 355 - 358. (Spain): Sociedad Geológica de España, 2008. ISSN 1576-5172
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- 42** Pallàs, R.; Rodés, Á.; Braucher, R.; Carcaillet, J.; Ortuño, M.; Bordonau, J.; Bourlès, D.; Vilaplana, J.M.; Masana, E.; Santanach, P.. The late Pleistocene and Holocene glaciation in the Pyrenees: A critical review and new evidence from 10Be exposure ages, south-central Pyrenees. *Quaternary Science Reviews*. 25, pp. 2937 - 2963. (United Kingdom): Elsevier Ltd, 2006. Available on-line at: <10.1016/j.quascirev.2006.04.004>. ISSN 0277-3791
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- 43** Pueyo, O.; González, A.; Ipas, J.; Manuel, J.; Orgaz, J.A.; Rodés, A.; Teixido, F.; Gil, A.; Millán, H.. Análisis de la deformación a partir del estudio de la anisotropía de susceptibilidad magnética (ASM) en una estructura de pliegues y cabalgamientos. Ejemplo de un corte del sector central del Pirineo Oscense. *Geo-Temas*. 6 - 4, pp. 327 - 330. (Spain): Sociedad Geológica de España, 2004. ISSN 1576-5172
Type of production: Scientific paper **Format:** Journal
- 44** Rodés, Á. El bronceado de las rocas. *El Pirineo Aragonés*. 6857, Ediciones y publicaciones del Pirineo Aragonés, S.L., 2017.
Type of production: Popular science article **Format:** Journal
Corresponding author: Yes

Works submitted to national or international conferences

- 1** **Title of the work:** Late-Pleistocene geomorphological and geochronological history of the former Patagonian Ice Sheet in north-eastern Patagonia (43°S)
Name of the conference: EGU General Assembly
City of event: Viena, Austria
Date of event: 2020
End date: 2020
Organising entity: European Geosciences Union
Type of contribution: Scientific book or monograph
Tancrede P.M Leger; Andrew S. Hein; Angel Rodes; Robert G. Bingham; Derek Fabel. "EGU General Assembly Conference Abstracts". pp. 2384 - 2384. 04/2020.
- 2** **Title of the work:** Lithological controls on soil formation rates and the implications for soil sustainability
Name of the conference: EGU General Assembly
City of event: Viena, Austria
Date of event: 2020
End date: 2020
Organising entity: European Geosciences Union
Type of contribution: Scientific book or monograph
Daniel Evans; John Quinton; Andrew Tye; Angel Rodes; Jessica Davies; Simon Mudd. "EGU General Assembly Conference Abstracts". pp. 11626 - 11626. 04/2020.
- 3** **Title of the work:** Early mountain glaciation and build-up of the last Patagonian Ice Sheet
Name of the conference: EGU General Assembly
City of event: Viena, Austria
Date of event: 2019
End date: 2019
Organising entity: European Geosciences Union
Type of contribution: Scientific book or monograph
Monika Mendelova; Andy Hein; Angel Rodes; Sheng Xu. "EGU General Assembly Conference Abstracts". pp. 17059 - 17059. 04/2019.



- 4** **Title of the work:** Ground-making research: the first UK arable soil formation rates
Name of the conference: EGU General Assembly
City of event: Viena, Austria
Date of event: 2019
End date: 2019
Organising entity: European Geosciences Union
Type of contribution: Scientific book or monograph
Dan Evans; John Quinton; Andrew Tye; Jessica Davies; Simon Mudd; Angel {Rodes}. "EGU General Assembly Conference Abstracts". pp. 1837 - 1837. 04/2019.
- 5** **Title of the work:** Extensive ice advance during the Antarctic Cold Reversal in central Patagonia
Name of the conference: EGU General Assembly
Date of event: 2018
End date: 2018
Organising entity: EGU
Type of contribution: Scientific book or monograph
Monika Mendelova; Andrew Hein; Angel Rodes; Sheng Xu; Dan Goldberg. "EGU General Assembly Conference Abstracts". 20, pp. 1227 - 1227. 04/2018.
- 6** **Title of the work:** Ice-dammed lakes yield insights into Holocene dynamics of Marguerite Trough Ice Stream and George VI Ice Shelf, Alexander Island, Antarctic Peninsula
Name of the conference: EGU General Assembly
Date of event: 2018
End date: 2018
Organising entity: EGU
Type of contribution: Scientific book or monograph
Bethan {Davies}; Michael {Hambrey}; Neil {Glasser}; Tom {Holt}; Angel {Rodes}; John {Smellie}; Jonathan {Carrivick}; Simon {Blockley}. "EGU General Assembly Conference Abstracts". 20, pp. 2050 - 2050. 04/2018.
- 7** **Title of the work:** Numerical age constraints to evaluate spatial and temporal variations in the timing of terrace formation (Duero River, central Iberia)
Name of the conference: FLAG Biennial Meeting 2018
Corresponding author: No
City of event: Liège, Belgium
Date of event: 2018
End date: 2018
Organising entity: Fluvial Archives Group **Type of entity:** Foundation
City organizing entity: Liège, Belgium
Loreto Antón; Laura Rodríguez-Rodríguez; Daniel García-Castellanos; Raimon Pallàs; Ivone Jiménez-Munt; Ángel Rodés; ASTER team. "FLAG Abstracts 2018".
- 8** **Title of the work:** Persistence of topography in ancient mountain belts: geomorphology's 'elephant in the room'?
Name of the conference: EGU General Assembly
Date of event: 2018
End date: 2018
Organising entity: EGU
Type of contribution: Scientific book or monograph
Daniel {Peifer Bezerra}; Cristina {Persano}; Martin {Hurst}; Paul {Bishop}; {\`A}ngel {Rodes}. "EGU General Assembly Conference Abstracts". 20, pp. 19677 - 19677. 04/2018.



- 9** **Title of the work:** Temporal variability in detrital CRN concentrations in large Himalayan catchments
Name of the conference: EGU General Assembly
Date of event: 2018
End date: 2018
Organising entity: EGU
Type of contribution: Scientific book or monograph
Elizabeth {Dingle}; Hugh {Sinclair}; Mikael {Attal}; Angel {Rodes}; Vimal {Singh}. "EGU General Assembly Conference Abstracts". 20, pp. 5308 - 5308. 04/2018.
- 10** **Title of the work:** The local LGM in the Patagonian Andes: insights from new ^{10}Be and OSL moraine and outwash chronologies At 39-44 °S
Name of the conference: 4th Nordic Workshop on Cosmogenic Nuclides
City of event: Geiranger, Norway
Date of event: 2018
End date: 2018
Organising entity: The University of Bergen
"4th Nordic Workshop on Cosmogenic Nuclides".
- 11** **Title of the work:** ^{10}Be erosion rates controlled by normal fault activity through incision and landslide occurrence
Name of the conference: EGU General Assembly
City of event: Viena, Austria
Date of event: 2017
End date: 2017
Organising entity: European Geosciences Union
Type of contribution: Scientific book or monograph
Duna {Roda-Boluda}; Mitch {D'Arcy}; Alex {Whittaker}; Delia {Gheorghiu}; Angel {Rodes}. "EGU General Assembly Conference Abstracts". pp. 4899 - 4899. 04/2017.
- 12** **Title of the work:** $^{10}\text{Be}/^9\text{Be}$ in FeMn Crust 3514-6: A Record of Paleocceanographic Changes
Name of the conference: Goldschmidt
Corresponding author: No
City of event: Paris, France
Date of event: 2017
End date: 2017
Sevasti Modestou; Ángel Rodés; Marcus Gutjahr; Jan Fietzke; Susana Bolhão Muiños; Rob Ellam; Rachel Flecker. "Goldschmidt Abstracts, 2017".
- 13** **Title of the work:** ^{10}Be Erosion Rates Controlled by Normal Fault Slip Rates and Transient Incision
Name of the conference: AGU Fall Meeting
Date of event: 2016
End date: 2016
Organising entity: AGU
Type of contribution: Scientific book or monograph
D.~C. {Roda-Boluda}; M.~K. {D'Arcy}; A.~C. {Whittaker}; P. {Allen}; D.~M. {Gheorghiu}; {\A}. {Rod{\'e}s}. "AGU Fall Meeting Abstracts". 2016, pp. T31A - 2880. 12/2016.
- 14** **Title of the work:** Direct dating of the oldest known glacial landforms in Patagonia
Name of the conference: Third Nordic Workshop on cosmogenic nuclide techniques
City of event: Stockholm, Sweden
Date of event: 2016



End date: 2016

Organising entity: Department of Physical Geography, Stockholm University

Type of entity: University Research Institute

City organizing entity: Stockholm, Sweden

Hein, A. S.; Coge, A.; Darvill, C. M.; Mendelova, M. X.; Kaplan, M. R.; Herman, F.; Dunai, T. J.; Norton, K.; Xu, S.; Christl, M.; Rodés, A.

15 Title of the work: Erosional flux from tectonically active landscapes: Case studies from Southern Italy

Name of the conference: EGU General Assembly

City of event: Vienna, Austria

Date of event: 2016

End date: 2016

Organising entity: EGU

Type of entity: Foundation

Type of contribution: Scientific book or monograph

D. {Roda-Boluda}; M. {D'Arcy}; A. {Whittaker}; P. {Allen}; D. {Gheorghiu}; A. {Rodes}. "EGU General Assembly Conference Abstracts". 18, pp. EPSC2016 - 557. 04/2016.

16 Title of the work: Investigating the dynamics of deglaciation in coastal areas of southeast Greenland

Name of the conference: EGU General Assembly

City of event: Vienna, Austria

Date of event: 2016

End date: 2016

Organising entity: EGU

Type of entity: Foundation

Type of contribution: Scientific book or monograph

L.~M. {Dyke}; A.~L.~C. {Hughes}; C.~S. {Andresen}; T. {Murray}; J.~F. {Hiemstra}; {\A}. {Rod{\e}s}. "EGU General Assembly Conference Abstracts". 18, pp. EPSC2016 - 16874. 04/2016.

17 Title of the work: Offshore-onshore correlations refining the glacial history of western Ireland

Name of the conference: AGU Fall Meeting

Date of event: 2016

End date: 2016

Organising entity: AGU

Type of contribution: Scientific book or monograph

K. {Schiele}; S. {Benetti}; P. {Dunlop}; D. {Fabel}; D.~M. {Gheorghiu}; H. {Hafliðason}; E.~L. {King}; C. {O'Cofaigh}; {\A}. {Rod{\e}s}; H.~P. {Sejrup}; A.~J. {Wheeler}; P. {Wilson}; C. {Clark}. "AGU Fall Meeting Abstracts". 2016, pp. C51F - 04. 12/2016.

18 Title of the work: Understanding complex exposure history of Mount Hampton, West Antarctica using cosmogenic ³He, ²¹Ne and ¹⁰Be in olivine

Name of the conference: Developments In Noble Gas Understanding and Expertise (DINGUE-4)

City of event: Nancy, France

Date of event: 2016

End date: 2016

Organising entity: Centre de Recherches Pétrographiques et Géochimiques

Type of entity: University Research Institute

City organizing entity: Nancy, France

Type of contribution: Scientific book or monograph

A. {Carracedo}; A. {Rodes}; F. {Stuart}; J. {Smellie}. "Developments In Noble Gas Understanding and Expertise (DINGUE-4)". 18, pp. EPSC2016 - 17178. 04/2016.



- 19 Title of the work:** Understanding complex exposure history of Mount Hampton, West Antarctica using cosmogenic ^3He , ^{21}Ne and ^{10}Be in olivine
Name of the conference: EGU General Assembly
City of event: Vienna, Austria
Date of event: 2016
End date: 2016
Organising entity: EGU **Type of entity:** Foundation
Type of contribution: Scientific book or monograph
A. {Carracedo}; A. {Rodes}; F. {Stuart}; J. {Smellie}. "EGU General Assembly Conference Abstracts". 18, pp. EPSC2016 - 17178. 04/2016.
- 20 Title of the work:** Evidence of a connection between the Atlantic and Mediterranean during the Messinian Salinity Crisis from Pb and Nd isotopes
Name of the conference: EGU General Assembly
City of event: Vienna, Austria
Date of event: 2015
End date: 2015
Organising entity: EGU **Type of entity:** Foundation
Type of contribution: Scientific book or monograph
S. {Modestou}; M. {Gutjahr}; J. {Fietzke}; {A}. {Rod{e}s}; M. {Frank}; S. {Bolh{~a}o Mui{~n}os}; R. {Ellam}; R. {Flecker}. "EGU General Assembly Conference Abstracts". 16, pp. 15527 - 15527. 05/2014.
- 21 Title of the work:** New insights into West Greenland ice sheet/stream dynamics during the last glacial cycle.
Name of the conference: EGU General Assembly
City of event: Vienna, Austria
Date of event: 2015
End date: 2015
Organising entity: EGU **Type of entity:** Foundation
Type of contribution: Scientific book or monograph
D. {Roberts}; T. {Lane}; B. {Rea}; C.~O. {Cofaigh}; S. {Jamieson}; A. {Vieli}; A. {Rodes}. "EGU General Assembly Conference Abstracts". 17, pp. 3528 - 3528. 04/2015.
- 22 Title of the work:** Precessional variation in seawater-derived Late Miocene Pb isotopes
Name of the conference: Goldschmidt
Corresponding author: No
City of event: Prague, Czech Republic
Date of event: 2015
End date: 2015
Sevasti Modestou; Marcus Gutjahr; Jan Fietzke; Ángel Rodés; M van der Schee; Martin Frank; Susana Bolhão Muiños; Rob Ellam; Rachel Flecker. "Goldschmidt2015 Abstracts".
- 23 Title of the work:** Datación de dos terrazas rocosas del valle del Río Lozoya (Comunidad de Madrid, España) mediante los isótopos cosmogénicos Be-10 y Al-26
Name of the conference: XIII Reunión de la Sociedad Española de Geomorfología
Corresponding author: No
City of event: Cáceres, Extremadura, Spain
Date of event: 2014
End date: 2014
Organising entity: Sociedad Española de Geomorfología **Type of entity:** Foundation
City organizing entity: Madrid, Community of Madrid, Spain



T Karampaglidis; Á Rodés; A Benito-Calvo; A Pérez-González. "XIII Reunión de la Sociedad Española de Geomorfología".

- 24** **Title of the work:** Re-exhumed sediment dating using cosmogenic ^{10}Be , ^{26}Al and ^{21}Ne
Name of the conference: Nordic workshop on Cosmogenic Nuclide Dating
Corresponding author: Yes
City of event: Aarhus, Denmark
Date of event: 2014
End date: 2014
Organising entity: Aarhus Universitet **Type of entity:** University
City organizing entity: Aarhus, Denmark
Ángel Rodés; Theodoros Karampaglidis; Alfonso Benito-Calvo; Finlay M Stuart. "Nordic workshop on Cosmogenic Nuclide Dating".
- 25** **Title of the work:** Pre-LGM ice dynamics of the Greenland Ice Sheet in Uummannaq Fjord West Greenland, revealed by blockfields, tors and till mantled surfaces
Name of the conference: EGU General Assembly 2013
Corresponding author: No
City of event: Vienna, Austria
Date of event: 2013
End date: 2013
Organising entity: EGU
City organizing entity: Vienna, Austria
Brice Rea; David Roberts; Tim Lane; Angel Rodés; Christoph Schnabel. "EGU General Assembly Conference Abstracts".
- 26** **Title of the work:** Combined surface exposure and burial dating from cosmogenic ^{10}Be - ^{26}Al depth profiles
Name of the conference: The Early-Middle Pleistocene transition: Significance of the Jaramillo subchron in the sedimentary record
Corresponding author: Yes
City of event: Burgos, Castile and León, Spain
Date of event: 2013
End date: 2013
Organising entity: ESF **Type of entity:** Foundation
City organizing entity: Strasbourg Cedex, France
"ESF EARTHTIME-EU Scientific Meeting. "The Early-Middle Pleistocene transition: Significance of the Jaramillo subchron in the sedimentary record".".
- 27** **Title of the work:** Evolution of NE Atlantic Mediterranean Outflow Water during the Messinian Salinity Crisis
Name of the conference: RCMNS congress
Corresponding author: No
City of event: Istanbul, Turkey
Date of event: 2013
End date: 2013
Sevasti Modestou; Marcus Gutjahr; Ángel Rodés; Jan Fietzke; Martin Frank; Susana Bolhão Muiños; Rob Ellam; Rachel Flecker. "14th RCMNS congress. 8-12 September, 2013. Istanbul, Turkey".
- 28** **Title of the work:** Evolution of NE Atlantic Mediterranean Outflow Water during the Messinian Salinity Crisis.
Name of the conference: 11th International Conference on Paleoceanography (ICP11)
Corresponding author: No
City of event: Sitges, Catalonia, Spain



Date of event: 2013

End date: 2013

Sevasti Modestou; Marcus Gutjahr; Ángel Rodés; Jan Fietzke; Martin Frank; Susana Bolhão Muiños; Rob Ellam; Rachel Flecker. "11th International Conference on Paleoceanography (ICP11)".

29 Title of the work: Ice Sheet Deglaciation, Younger Dryas Readvance and Palaeoclimatic Implications in the Cairngorm Mountains, Scotland.

Name of the conference: EGU General Assembly 2013

Corresponding author: No

City of event: Vienna, Austria

Date of event: 2013

End date: 2013

Organising entity: EGU

City organizing entity: Vienna, Austria

Type of contribution: Scientific book or monograph

M. {Standell}; D. {Graham}; R. {Hodgkins}; {\A}. {Rod{\e}s}. "EGU General Assembly Conference Abstracts". 15, pp. EGU2013 - 147. 04/2013.

30 Title of the work: The Northern Uummannaq ice stream system, West Greenland: deglacial history and controls upon deglaciation

Name of the conference: GSA Annual Meeting

City of event: Denver, United States of America

Date of event: 2013

End date: 2013

Organising entity: GSA

Type of entity: Public Research Body

City organizing entity: Denver, United States of America

Timothy P. Lane; David Roberts; Brice R Rea; Colm O'Cofaigh; Ángel Rodés. "GSA Annual Meeting in Denver: 125th Anniversary of GSA".

31 Title of the work: Advances in the study of alluvial deposits with cosmogenic depth profiles: Combined surfaces exposure-burial dating from paired cosmogenic depth profiles dating

Name of the conference: FLAG Biennial Meeting

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Remich, Luxembourg

Date of event: 2012

Rodés, Á.; Pallàs, R.; Ortuño, M.; Garcia-Melendez, E.; Masana, E. "Abstracts volume".

32 Title of the work: Outlet glaciers of southeast Greenland: rapid, synchronised regional retreat at the start of the Holocene?

Name of the conference: AGU Fall Meeting

City of event: San Francisco, United States of America

Date of event: 2012

End date: 2012

Organising entity: AGU

City organizing entity: San Francisco, United States of America

Laurence M Dyke; Anna L Hughes; Tavi Murray; Ángel Rodés. "AGU Fall Meeting 2012".

33 Title of the work: Advances in the study of alluvial deposits with cosmogenic ^{10}Be depth profiles. Obtaining geomorphic data related to the evolution of Carboneras, Albox and Alhama de Murcia Faults (SE Iberia)

Name of the conference: INQUA 2011

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Bern, Switzerland

Date of event: 2011

Rodés, Á.; Pallàs, R.; García-Melendez, E.; Ortuño, M.; Moreno, X.; Masana, E.; Braucher, R.; Bourlès, D.L.

34 Title of the work: Complex-exposure domain in 'banana plots' from two cosmogenic isotope concentrations. Are burial processes required?

Name of the conference: ESF Research Conferences - Cosmogenic Nuclides

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Obergurgl, Austria

Date of event: 2011

Rodés, Á.; Antón, L.; Stuart, F.; Pallàs, R.; García-Castellanos, D.; De Vicente, G.; Braucher, R.; Bourlès, D."Abstracts volume".

35 Title of the work: Dating alluvial deposits with cosmogenic ^{10}Be depth profiles. Alluvial fans related to Carboneras, Albox and Alhama de Murcia Faults (SE Iberia)

Name of the conference: Primera Reunión Ibérica sobre Fallas Activas y Paleosismología, Sigüenza (Guadalajara, España)

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Sigüenza, Spain

Date of event: 2010

Rodés, Á.; Pallàs, R.; Moreno, X.; García-Melendez, E.; Ortuño, M.; Masana, E.; Braucher, R.; Bourlès, D.

36 Title of the work: Denudation rates across the seaward side of a juvenile orogenic topography, western Cantabrian Range

Name of the conference: EGU General Assembly

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Viena, Austria

Date of event: 2010

Alvarez Marron, J.; Menendez-Duarte, R.; Stuart, F.; Fernandez, S.; Grobe, R.; Glausmacher, U.A.; Pallas, R.; Rodés, Á.; Braucher, R.; Bourles, D."Geophysical Research Abstracts".

37 Title of the work: Drainage reorientation and river incision in W Iberia through DEM analysis, cosmogenic nuclide dating and process-based numerical modelling

Name of the conference: EGU General Assembly

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Viena, Austria

Date of event: 2010

Anton, L.; Rodés, Á.; Garcia-Castellanos, D.; Pallàs, R.; De Vicente, G.; Oláiz, A.; Braucher, R.; Bourlès, D.; Stuart, F."Geophysical Research Abstracts".

38 Title of the work: Duero river incision and drainage reorientation in west-central Iberia through tectonic, geomorphic and cosmogenic nuclide dating

Name of the conference: FLAG Biennial Meeting

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Vila Velha de Ródão, Castelo Branco, Portugal

Date of event: 2010



Antón, L.; Rodés, A.; Pallàs, R.; De Vicente, G.; García-Castellanos, D.; Oláiz, A.J.; Braucher, R.; Bourlès, D.; Stuart, F. "Long term river evolution and fluvial dynamics. Abstracts Volume".

- 39** **Title of the work:** Methodological improvements to date quartz-poor calcretized alluvial fans in tectonically active areas using ¹⁰Be cosmogenic nuclide depth profiles.
Name of the conference: ESF Research Conferences: Submarine Paleoseismology: The Offshore Search of Large Holocene Earthquakes
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Obergurgl, Austria
Date of event: 2010
Rodés, A.; Pallàs, R.; Moreno, X.; García-Melendez, E.; Ortuño, M.; Masana, E.; Braucher, R.; Bourlès, D.
- 40** **Title of the work:** Paleoseismology along the Carboneras Fault: Integrated onshore-offshore evidence of seismogenic activity
Name of the conference: Project SHARE workshop
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Moncarapacho, Portugal
Date of event: 2010
Moreno, X.; Masana, E.; Gràcia, E.; Rodés, A.; Bartolomé, R.; Pallàs, R. "Abstracts volume".
- 41** **Title of the work:** An integrated multiscale paleoseismic and neotectonic approach of the Carboneras Fault Zone, SE Spain, and its marine continuation in the Alboran Sea
Name of the conference: European Geosciences Union General Assembly 2009 Vienna, Austria, 19-24 April 2009
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Vienna, Austria
Date of event: 2009
Moreno, X.; Masana, E.; Gracia, E.; Bartolome, R.; Lo Iacono, C.; Rodés, A.; Pallàs, R. "Abstracts volume".
- 42** **Title of the work:** An integrated multiscale paleoseismic and neotectonic approach of the Carboneras Fault Zone, SE Spain, and its marine continuation in the Alboran Sea
Name of the conference: AGU Fall meeting
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: San Francisco, United States of America
Date of event: 2009
Moreno, X.; Masana, E.; Gracia, E.; Bartolome, R.; Lo Iacono, C.; Rodés, A.; Pallàs, R.
- 43** **Title of the work:** Paleoseismology along the Carboneras Fault: Integrated onshore-offshore evidence of seismogenic activity
Name of the conference: 1st INQUA-IGCP-567 International Workshop on Earthquake Archaeology and Palaeoseismology
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Baelo Claudia, Spain
Date of event: 2009
Moreno, X.; Gràcia, E.; Masana, E.; Rodés, Á.; Bartolomé, R.; Pallàs, R.



- 44** **Title of the work:** 10Be dating of erratics at Hell Creek (Coast Mountains, British Columbia, Canada)
Name of the conference: Goldschmidt Conference 2008
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Vancouver, Canada
Date of event: 2008
Ortuño, M.; Evans, S.; Glague, J.J.; Pallàs, R.; Rodés, Á.; Cuman, A.; Braucher, R.; Bourlès, D."Geochimica et Cosmochimica Acta 72, Number 12S, A710".
- 45** **Title of the work:** Climate during the last glacial cycle in the Pyrenees inferred from 10Be dating and paleoglacier modeling
Name of the conference: Goldschmidt 2008 - 'from Sea to Sky'. July 13 - 18 in Vancouver, Canada
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Vancouver, Canada
Date of event: 2008
RODÉS, Á.; PLUMMER, M. A.; PALLÀS, R.; BRAUCHER, R.; BOURLÈS, D. L."Geochimica et Cosmochimica Acta 72, number 12S, A801".
- 46** **Title of the work:** Small unconnected glacial basins as key target areas for surface exposure dating. Evidence from the SE Pyrenees (Iberian Peninsula)
Name of the conference: Goldschmidt Conference 2008
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Vancouver, Canada
Date of event: 2008
Pallàs, R.; Rodés, Á.; Braucher, R.; Bourlès, D."Cosmochimica et Cosmochimica Acta 72, number 12S, A719".
- 47** **Title of the work:** Using Terrestrial Cosmogenic Nuclides in the Iberian Peninsula. Examples from work in progress.
Name of the conference: 4th TopoEurope Workshop
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Madrid, Spain
Date of event: 2008
Rodés, Á.; Pallàs, R.; Braucher, R.; Bourlès, D.; Moreno, X.; Masana, E.; Antón, L.; Garcia-Castellanos, D.; Olaiz, A.J.; De Vicente, G.
- 48** **Title of the work:** Using Terrestrial Cosmogenic Nuclides to constrain rates of landscape change. Bridging the gap between direct process measurements and low-temperature thermochronology
Name of the conference: 4th TopoEurope Workshop
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 2008
Pallàs, R.; Rodés, Á.; Braucher, R.; Bourlès, D.
- 49** **Title of the work:** Isótopos cosmogénicos y riesgos naturales.
Name of the conference: I Seminari de Joves Investigadors. Barcelona, 1 i 2 de desembre de 2005.
Type of event: Conference
Type of participation: Participatory - oral communication



City of event: Barcelona, Spain
Date of event: 2005
Rodés, A.; Pallàs, R."Abstracts volume, p. 10."

- 50** **Title of the work:** The late Pleistocene and Holocene glaciation of the Noguera Ribagorçana valley (south-central Pyrenees) from cosmogenic ¹⁰Be surface exposure dating
Name of the conference: Sixth International Conference on Geomorphology (7-11 September)
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Zaragoza, Spain
Date of event: 2005
Pallàs, R.; Rodés, Á.; Braucher, R.; Carcaillet, J.; Ortuño, M.; Bordonau, J.; Boulès, D.L.; Vilaplana, J.M.; Masana, E.; Santanach, P."Abstracts volume, p. 12."
- 51** **Title of the work:** The late Pleistocene and Holocene glaciation of the Querol valley (south-eastern Pyrenees) from cosmogenic ¹⁰Be surface exposure dating
Name of the conference: Sixth International Conference on Geomorphology (7-11 September)
Type of event: Conference
Type of participation: Participatory - poster
City of event: Zaragoza, Spain
Date of event: 2005
Rodés, Á.; Pallàs, R.; Braucher, R.; Bordonau, J.; Boulès, D. L.; Vilaplana, J.M."Abstracts volume, p. 30."
- 52** **Title of the work:** Análisis de la deformación a partir del estudio de la anisotropía de susceptibilidad magnética (ASM) en una estructura de pliegues y cabalgamientos. Ejemplo de un corte del sector central del Pirineo Oscense.
Name of the conference: VI Congreso Geológico de España Zaragoza, 12-15 julio, 2004
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Zaragoza, Spain
Date of event: 2004
Pueyo, O.; González, A.; Ipas, J.; Manuel, J.; Orgaz, J.A.; Rodés, A.; Teixido, F.; Gil, A.; Millán, H.

Other dissemination activities

- 1** **Title of the work:** Organización 1a Reunión de Estudiantes de Geología
Name of the event: REG 2000
Type of event: Conferences given
City of event: Zaragoza, Aragon, Spain
Date of event: 2000
Organising entity: Universidad de Zaragoza **Type of entity:** University
City organizing entity: Zaragoza, Aragon, Spain
- 2** **Title of the work:** Organización 5th European Geologist Students' Network
Name of the event: EUGEN 2000
Type of event: Conferences given
City of event: Zaragoza, Aragon, Spain
Date of event: 2000
Organising entity: Universidad de Zaragoza **Type of entity:** University
City organizing entity: Zaragoza, Aragon, Spain



R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

Committee title: Cosmogenic Isotope Analysis Facility Steering Committee
Primary (UNESCO code): 250304 - Geochronology and radio isotopes
Secondary (UNESCO code): 250600 - Geology
Tertiary (UNESCO code): 250607 - Geomorphology
Affiliation entity: Natural Environment Research Council
Type of entity: Public Research Body
City affiliation entity: United Kingdom
Start-End date: 01/06/2012 - 31/12/2018

Organization of R&D activities

Title of the activity: Cosmo2020-Scotland
Type of activity: Conference
Geographical area: Non EU International
Convening entity: University of Edinburgh
Type of entity: University
City convening entity: Edimburgo, Eastern Scotland, United Kingdom
Start-End date: 02/06/2022 - 05/06/2022
Duration: 3 days

R&D management

Name of the activity: Cosmogenic Isotope Analysis Facility
Type of management: Management of R&D&I actions and projects
Performed tasks: Laboratory Manager
Entity: Scottish Universities Environmental Research Centre
Type of entity: University Centres and Structures and Associated Bodies
Start date: 01/06/2011
Duration: 8 years - 6 months

Other achievements

Stays in public or private R&D centres

- Entity:** Chinese Academy of Sciences
Faculty, institute or centre: Institute Of Geochemistry
City of entity: Guiyang, China
Start-End date: 19/05/2019 - 02/06/2019
Duration: 14 days
Goals of the stay: Guest
Provable tasks: Campaña de recogida de muestras geológicas. Terrazas del río Yangtzé.
- Entity:** University of Edinburgh
Faculty, institute or centre: School of GeoSciences
City of entity: Edinburgh, United Kingdom
Start-End date: 2015 - 2016
Duration: 4 months



Goals of the stay: Contracted

Provable tasks: CI-36 sample preparation

- 3** **Entity:** ASTER, C.E.R.E.G.E. Europôle Méditerranéen de l'Arbois. Université Aix Marseille III
City of entity: Aix-en-Provence, France
Start date: 2010
Goals of the stay: Contracted
Provable tasks: AMS measurement
Type of entity: Technological Centre
Duration: 1 month
- 4** **Entity:** ASTER, C.E.R.E.G.E. Europôle Méditerranéen de l'Arbois. Université Aix Marseille III
City of entity: Aix-en-Provence, France
Start date: 2009
Goals of the stay: Contracted
Provable tasks: AMS measurement
Type of entity: Technological Centre
Duration: 1 month
- 5** **Entity:** Earth & Environmental Science / New Mexico Institute Of Mining And Technology
City of entity: Socorro, NM, United States of America
Start date: 2006
Goals of the stay: Doctorate
Provable tasks: Chemical preparation of samples for Cosmogenic Chlorine 36 analysis
Duration: 2 months
- 6** **Entity:** Département Gophysique / Géochimie Isotopique. C.E.R.E.G.E. Europôle Méditerranéen de l'Arbois. Université Aix Marseille III
City of entity: Aix-en-Provence, France
Start date: 2005
Goals of the stay: Doctorate
Provable tasks: Preparation of cathodes for Cosmogenic Beryllium 10 analysis
Duration: 4 months
- 7** **Entity:** Département Gophysique / Géochimie Isotopique. C.E.R.E.G.E. Europôle Méditerranéen de l'Arbois. Université Aix Marseille III
City of entity: Aix-en-Provence, France
Start date: 2004
Goals of the stay: Doctorate
Provable tasks: Chemical preparation of samples and cathode preparation for Cosmogenic Beryllium 10 analysis.
Duration: 4 months

Obtained grants and scholarships

- 1** **Name of the grant:** Beca de colaboración
Aims: Pre-doctoral
Awarding entity: Universidad de Zaragoza
Conferral date: 2001
End date: 2002
Entity where activity was carried out: Universidad de Zaragoza
Faculty, institute or centre: Facultad de Educación
Type of entity: University
Duration: 1 year



2 **Name of the grant:** Beca FPI

Aims: Pre-doctoral

Awarding entity: Ministerio de Ciencia e Innovación **Type of entity:** n/a

Conferral date: 2003

Duration: 4 years

Entity where activity was carried out: Universitat de Barcelona

Faculty, institute or centre: Facultat de Ciències de la Terra