



## **Rafael Pimentel Leiva**

Generado desde: Editor CVN de FECYT

Date of document: 02/02/2015

**v 1.3.0**

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**Rafael Pimentel Leiva**

Surname(s): **Pimentel Leiva**  
 Name: **Rafael**  
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**Current professional situation**

**Name of institution:** University of Cordoba      **Type of institution:** University  
**Department, service, etc.:** Department of Agronomy. Hydraulic Engineering Area, Andalusian Institute for Earth System Research  
**Category/position or post:** Postdoctoral Researcher  
**Start date:** 01/01/2015  
**Type of contract:** Temporary      **Type of dedication:** Full time  
**Primary (UNESCO code):** 250812 - Snow  
**Secondary (UNESCO code):** 250800 - Hydrology

**Previous posts and activities**

	<b>Name of institution</b>	<b>Category/position or post</b>	<b>Start date</b>
<b>1</b>	University of Cordoba	Hired on research	01/07/2014
<b>2</b>	University of Granada	Hired on research	01/01/2013
<b>3</b>	General Foundation University of Granada-Enterprise	Predoctoral fellowship holder	01/10/2012
<b>4</b>	University of Granada	Predoctoral fellowship holder	01/04/2012
<b>5</b>	General Foundation University of Granada-Enterprise	Predoctoral fellowship holder	01/01/2012
<b>6</b>	University of Granada	Hide on reseach	01/10/2011
<b>7</b>	Universidad de Granada	Predoctoral fellowship holder	01/12/2010
<b>8</b>	General Foundation University of Granada-Enterprise	Predoctoral fellowship holder	01/07/2010

**1** **Name of institution:** University of Cordoba      **Type of institution:** University  
**Department, service, etc.:** Department of Agronomy. Hydraulic Area. Andalusian Institute for Earth System Research  
**Category/position or post:** Hired on research  
**Start-End date:** 01/07/2014 - 31/12/2014      **Duration:** 6 months  
**Type of contract:** Temporary  
**Type of dedication:** Full time



**Professional activity:** Development of the study "Study of Global Change in snow and mountain hydrology in Sierra Nevada National Park "

- 2** **Name of institution:** University of Granada **Type of institution:** University  
**Department, service, etc.:** Centro Andaluz de Medio Ambiente. Andalusian Institute for Earth System Research  
**Category/position or post:** Hired on research  
**Start-End date:** 01/01/2013 - 30/06/2014 **Duration:** 2 years - 6 months  
**Type of contract:** Temporary  
**Professional activity:** Development the research project "Snow dynamics in a Mediterranean regions and its modelling at different scales. Implication for water management. CGL 2012-25632"
- 3** **Name of institution:** General Foundation University of Granada-Enterprise **Type of institution:** University Centres and Structures and Associated Bodies  
**Department, service, etc.:** Centro Andaluz de Medio Ambiente. Andalusian Institute for Earth System Research  
**Category/position or post:** Predoctoral fellowship holder  
**Start-End date:** 01/10/2012 - 31/12/2012 **Duration:** 3 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Professional activity:** Development of the study " Implementation service for Guadalfeo model and tools for its transfer"
- 4** **Name of institution:** University of Granada **Type of institution:** University  
**Department, service, etc.:** Centro Andaluz de Medio Ambiente. Andalusian Institute for Earth System Research  
**Category/position or post:** Predoctoral fellowship holder **Teaching management:** No  
**Start-End date:** 01/04/2012 - 30/09/2012 **Duration:** 6 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Professional activity:** Development of the study: "Service of advice for the monitoring of the snow cover in Sierra Nevada"
- 5** **Name of institution:** General Foundation University of Granada-Enterprise **Type of institution:** University Centres and Structures and Associated Bodies  
**Department, service, etc.:** Centro Andaluz de Medio Ambiente. Andalusian Institute for Earth System Research  
**Category/position or post:** Predoctoral fellowship holder  
**Start-End date:** 01/01/2012 - 31/03/2012 **Duration:** 3 months  
**Type of contract:** Temporary  
**Professional activity:** Study of snow dynamics combining physically based hydrological modelling and remote sensing techniques
- 6** **Name of institution:** University of Granada **Type of institution:** University  
**Department, service, etc.:** Centro Andaluz de Medio Ambiente. Andalusian Institute for Earth System Research  
**Category/position or post:** Hired on research  
**Start-End date:** 01/10/2011 - 31/12/2011 **Duration:** 3 months  
**Type of contract:** Temporary  
**Professional activity:** Development of the study: "Service of implementation of the Guadalfeo model and transfer tools"



- 7** **Name of institution:** Universidad de Granada      **Type of institution:** University  
**Category/position or post:** Predoctoral fellowship holder  
**Start-End date:** 01/12/2010 - 30/09/2011      **Duration:** 10 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Professional activity:** Study of snow dynamics combining physically based hydrological modelling and remote sensing techniques
- 8** **Name of institution:** General Foundation University of Granada-Enterprise  
**Department, service, etc.:** Centro Andaluz de Medio Ambiente. Andalusian Institute for Earth System Research  
**Category/position or post:** Predoctoral fellowship holder  
**Start-End date:** 01/07/2010 - 30/11/2010      **Duration:** 5 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Professional activity:** Study of snow dynamics combining physically based hydrological modelling and remote sensing techniques



## Official training received

### University education

#### University degrees, engineering degrees or master's degrees

- 1 **Official qualification:** Máster  
**Name of qualification:** Master in Environmental Hydraulics: Integral Management of River Basins  
**institution issuing the qualification:** Instituto de Estudios de Postgrado. Universidad de Córdoba      **Type of institution:** University Centres and Structures and Associated Bodies  
**Date of qualification:** 09/2011
  
- 2 **Official qualification:** Higher degree  
**Name of qualification:** Civil Engineer  
**City of qualification:** Granada, Andalusia, Spain  
**institution issuing the qualification:** Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos      **Type of institution:** University Centres and Structures and Associated Bodies  
**Date of qualification:** 02/2010

#### Doctorates

**Doctorate programme:** Biogeochemical flow dynamics and applications  
**University issuing the qualification:** University of Cordoba      **Type of institution:** University  
**City of qualification:** Cordoba, Andalusia, Spain  
**Date of qualification:** 17/12/2014  
**European doctorate:** Yes      **European doctorate date:** 17/12/2014  
**Thesis title:** Influence of microscale in snow distributed modelling in semiarid regions  
**Thesis director:** María José Polo Gómez  
**Thesis co-director:** Javier Herrero Lantarón  
**Mark:** Outstanding cum laude  
**Recognition of quality:** Yes

#### Other postgraduate university training

- 1 **Type of training:** Specialism  
**Postgraduate qualification:** Hydrocourse: Model building, inference and hypothesis testing in hydrology  
**City:** Belbaux, Luxembourg  
**University issuing the qualification:** Centre de Recherche Public Gabriel Lippmann      **Type of institution:** Innovation and Technology Centres  
**Faculty, institute or centre:** Centre de Recherche Public Gabriel Lippmann  
**Date of qualification:** 09/05/2014

**2** **Type of training:** Specialism**Postgraduate qualification:** Avanced Training Course in Modelling, Attribution and Data Assimilation**City:** Enshede, Overijssel, Holland**University issuing the qualification:** University of <sup>o</sup>: University Tweente**Faculty, institute or centre:** Faculty of Geo-Information Sciecne and Earth Observation (ITC)**Date of qualification:** 09/07/2012**3** **Type of training:** Postgraduate**Postgraduate qualification:** Avanced Training Course in Recent Progresses in Earth Observation and Water Resources**City:** Cordoba, Andalusia, Spain**University issuing the qualification:** Universidad de <sup>o</sup>: University Córdoba**Faculty, institute or centre:** Andalusian Intitute for Earth System Research**Date of qualification:** 04/05/2012**Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare training)****1** **Type of training:** Course**Training title:** Machine Learning**institution issuing the qualification:** Stanford University**Type of institution:** University**Training manager:** Andrew Ng**Training end date:** 12/11/2013**2** **Type of training:** Course**Training title:** Introduction to Matlab**City:** Granada, Andalusia, Spain**institution issuing the qualification:** Andalusian Institute for Earth System Research. CEAMA. University of Granada**Training end date:** 08/10/2010**Duration in hours:** 40 hours**3** **Type of training:** Course**Training title:** English B1+ Intermediate**City:** Cork, Southern and Eastern, Ireland**institution issuing the qualification:** Cork English College**Training end date:** 10/10/2008**Duration in hours:** 60 hours**Language skills**

Language	Speaking	Reading	Writing
French	Elementary	Advanced	Intermediate
English	Intermediate	Advanced	Advanced



## Teaching activity

### Subjects given

- 1** **Type of teaching:** Unofficial teaching  
**Name of subject/course:** Hydrological application of GIS  
**Professional category:** Hired on research  
**Type of teaching:** Practical work (classroom-problems)  
**Qualification:** Unregulated university teaching  
**Start date:** 20/10/2014 **End date:** 31/10/2014  
**Date of the last time:** 20/10/2014 **Type of hours/credits:** Credits  
**Number of hours/credits:** 1  
**institution:** Universidad de Córdoba **Type of institution:** University  
**Faculty, institute or centre:** Escuela Técnica Superior de Ingenieros Agrónomos y de Montes  
**Department:** Agronomy  
**City:** Cordoba, Andalusia, Spain  
**Subject language:** Spanish
- 2** **Type of teaching:** Unofficial teaching  
**Name of subject/course:** Introduction to Matlab: applications in maritime and coastal engineering (III Edition)  
**Professional category:** Hired on research  
**Type of programme:** Engineering **Type of teaching:** In person theory  
**Qualification:** Unregulated university teaching  
**Start date:** 11/03/2014 **End date:** 19/03/2014  
**Date of the last time:** 19/03/2014 **Type of hours/credits:** Credits  
**Number of hours/credits:** 0,4  
**institution:** University of Granada **Type of institution:** University  
**Faculty, institute or centre:** Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos  
**Department:** Structural Mechanics and Hydraulic Engineering  
**City:** Granada, Andalusia, Spain
- 3** **Type of teaching:** Official teaching  
**Name of subject/course:** Atmospheric Dynamics  
**Professional category:** Hired on research  
**Type of programme:** Master's degree **Type of teaching:** Practical work (classroom-problems)  
**Qualification:** Master in Environmental Hydraulics  
**Start date:** 01/10/2013 **End date:** 20/12/2013  
**Type of hours/credits:** Credits  
**Number of hours/credits:** 2,5  
**institution:** University of Granada **Type of institution:** University  
**Faculty, institute or centre:** Andalusian Institute for Earth System Research  
**Department:** Structural Mechanics and Hydraulic Engineering  
**City:** Granada, Andalusia, Spain





## Participation in conferences oriented to teaching training

- 1** **Name of the event:** IV International Conference on Educational Innovation in Technical Careers  
**Type of event:** Conference  
**Type of participation:** Poster  
**Presentation language:** English  
**City:** Granada, Andalusia, Spain  
**Date of the presentation:** 20/09/2013  
**Organising institution:** General Foundation University of Granada-Enterprise  
**Type of institution:** University Centres and Structures and Associated Bodies  
**Start date:** 19/09/2013  
**End date:** 20/09/2013  
Virtual evaluation of LaTeX teaching in technical careers.
- 2** **Name of the event:** European Geoscience Union General Assembly 2015  
**Type of event:** Conference  
**Type of participation:** Poster  
**Presentation language:** English  
**City:** Vienna, Austria  
**Date of the presentation:** 04/2015  
**Organising institution:** European Geoscience Union  
Water, soil and soccer: an experience of two years promoting humanistic competences and standarization of curricula.

## Experience in science and technology

### Participation in research, development or innovation groups/teams

**Name of the group:** Fluvial Dynamics and Hydrology  
**Aims of the group:** Research Group of the andalusian Research Plan  
**Standardised code:** TEP 248  
**Institution the group belongs to:** University of Cordoba **Type of institution:** University  
**Start date:** 22/01/2013



## Scientific or technological activity

### Participation in R&D&I projects funded in competitive calls by public or private bodies

- 1** **Name of the project:** Addaptation and mitigation measures to climate change in the Ebro Delta  
**Project area:** European Union  
**Role:** Researcher  
**Institution where project took place:** Univeristy of Cordoba **Type of institution:** University  
**Head(s) researcher(s):** M.J. Polo  
**Number of researchers:** 30  
**Funding institution or bodies:** European Union  
**Type of participation:** Collaborator  
**Name of the programme:** LIFE  
**Code acc. to the funding institution:** LIFE13 ENV/ES/001182  
**Start-End date:** 02/06/2014 - 01/02/2018 **Duration of the project:** 4 years  
**Participating bodies:** ACA; CAT; CRSAE; ICGC; IRTA; OCCC; University of Cordoba  
**Total amount:** 2.260.960
- 2** **Name of the project:** Mediterranean mountain landscape (MEMOLA)  
**Institution where project took place:** University of Cordoba  
**Head(s) researcher(s):** E. Fereres  
**Number of researchers:** 20  
**Funding institution or bodies:** European Union  
**Type of participation:** Collaborator  
**Name of the programme:** 7th Framework Programme of the EU  
**Start-End date:** 01/01/2014 - 31/01/2017 **Duration of the project:** 3 years  
**Participating bodies:** Arqueoandalusí Arqueología y Patrimonio S.L.; CSIC; Centro de Salud Altabix; University of Cordoba; University of Granada; University of Padova; University of Palermo; University of Sheffield
- 3** **Name of the project:** Study of Global Change in snow and mountain hydrology in Sierra Nevada National Park  
**Project area:** National  
**Role:** Researcher  
**Institution where project took place:** University of Cordoba **Type of institution:** University  
**City:** Córdoba, Andalusia, Spain  
**Head(s) researcher(s):** M.J. Polo  
**Number of researchers:** 5  
**Funding institution or bodies:** Biodiversity Foundation. Agriculture, Food and Environment Ministry  
**Name of the programme:** Actividades 2013 en el ámbito de la biodiversidad, cambio climático y calidad ambiental  
**Start-End date:** 01/01/2014 - 31/12/2014 **Duration of the project:** 1 year



**Total amount:** 20.000

- 4 Name of the project:** Snow dynamics in Mediterranean regions and its modelling at several scales. Implication in water resources management

**Project area:** National

**Role:** Researcher

**Institution where project took place:** University of Cordoba

**City:** Córdoba, Andalusia, Spain

**Head(s) researcher(s):** M.J. Polo

**Number of researchers:** 6

**Funding institution or bodies:**

National Science and Innovation Ministry

**Type of participation:** Collaborator

**Name of the programme:** Plan Nacional de I+D+i del Ministerio de Ciencia e Innovación (Proyectos de Investigación Fundamental no orientada)

**Code acc. to the funding institution:** CGL2011-25632

**Start-End date:** 01/01/2012 - 31/12/2014

**Duration of the project:** 3 years

**Total amount:** 53.240

- 5 Name of the project:** Novel Integrated water management system for southern European regions (NOVIWAM)

**Role:** Researcher

**Institution where project took place:** University of Granada

**Funding institution or bodies:**

European Union

**Type of participation:** Collaborator

**Name of the programme:** 7th Framework Programme of the EU Regions of knowledge

**Code acc. to the funding institution:** FP7-245460

**Start-End date:** 01/02/2010 - 31/01/2013

**Duration of the project:** 3 years

**Participating bodies:** AAC; ARHNorte; ATLANTIS; AYESA; CENTA; CUT; DPUK; Instituto de Recursos Naturales y Agrobiología de Salamanca; IRSTEA; OIEAU; RPC; SBLA; SGMAA; SHUKLAB; SIMBIENTE; UMINHO; UPT; University of Cordoba; University of Granada

**Total amount:** 78.110

- 6 Name of the project:** Incorporation of tools for the management of hydrometeorological information in order to forecast in real time and for a certain risk level, hydrological and meteorological alerts in short term

**Institution where project took place:** University of Cordoba

**Number of researchers:** 5

**Funding institution or bodies:**

BEFESA AGUA S.A.

**Name of the programme:** CENIT Program

**Start-End date:** 01/09/2009 - 16/09/2012

**Duration of the project:** 3 years - 16 days

**Total amount:** 116.372,94

- 7 Name of the project:** Integrated Management of Port Security

**Project type:** Research and development, including transfer **Project area:** National

**Role:** Researcher

**Institution where project took place:** Universidad de Granada **Type of institution:** University



**Head(s) researcher(s):** M.A. Losada

**Funding institution or bodies:**

Development Ministry

**Code acc. to the funding institution:** FOM /3864/2008

**Start-End date:** 01/01/2008 - 31/12/2011

**Duration of the project:** 3 years

**Total amount:** 584.250

## Participation in R&D&I non-competitive projects, contracts or agreements with administrations or public or private bodies

- 1 Name of the project:** Integrated study of environmental effects of wind farms for eolic production  
**Role:** Researcher  
**Head researcher:** M.J. Polo  
**Participating bodies:** Univeristy of Cordoba; University of Granada  
**Funding institution or bodies:** University of Granada  
**Start date:** 24/07/2014 **Duration of project:** 2 years  
**Total amount:** 96.000
- 2 Name of the project:** GIO User uptake Lot 2- Support to the Take-Up of GMES services by Users  
**Project area:** European Union  
**Role:** Researcher  
**Head researcher:** M.J. Polo  
**Number of researchers:** 5  
**Funding institution or bodies:** EOLAB Spain SL  
**Start date:** 01/03/2013 **Duration of project:** 9 months
- 3 Name of the project:** Service of advice for the monitoring of the snow cover in Sierra Nevada  
**Project area:** National  
**Role:** Researcher  
**Head researcher:** M.J. Polo  
**Number of researchers:** 4  
**Funding institution or bodies:** Andalusian Agency of Environment and Water  
**Code acc. to the funding institution:** NET830810/1  
**Start date:** 27/12/2011 **Duration of project:** 1 year  
**Total amount:** 13.449,25
- 4 Name of the project:** Service of implementation of the Guadalfeo model and transfer tools  
**Project area:** National  
**Role:** Researcher  
**Head researcher:** M.J. Polo  
**Number of researchers:** 5  
**Funding institution or bodies:** EGMASA  
University of Granada

**Code acc. to the funding institution:** CONV 28/09**Start date:** 05/03/2009**Total amount:** 479.656,47**Duration of project:** 3 years

## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** R. Pimentel; J. Herrero; M.J. Polo. Subgrid parameterization of snow distribution in a Mediterranean site using terrestrial photography (under review). Hydrology and Earth System Sciences. 2015.

**Type of production:** Article **Format:** Journal

**Impact source:** ISI **Category:** Water Resources

**Impact index:** 3.642 **Journal in the top 25%:** Yes

**Position:** 4 **No. of journals in the cat.:** 81
- 2** M.J. Pérez-Palazón; R. Pimentel; J. Herrero; M.J. Polo. Analysis of snow spatial and temporary variability through the study of terrestrial photography in the Trevez river valley. Remote Sensing for Agriculture, Ecosystems, and Hydrology XVI. 9239 - 923918, SPIE Digital Library, 2014. Available online at: <<http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1919514>>.

**Type of production:** Article **Format:** Book

**Impact source:** SCOPUS
- 3** R. Pimentel; J. Herrero; M.J. Polo. Snow evolution in a semi-arid mountainous area combining snow modelling and Landsat spectral mixture analysis. Remote Sensing and GIS for Hydrology and Water Resources. 368, IAHS Publication, 2014.

**Type of production:** Article **Format:** Book
- 4** R. Pimentel; J. Herrero; Y. Zeng; Z. Su; M.J. Polo. Study snow dynamics at subgrid scale in semiarid environments combining terrestrial photography and data assimilation techniques. Journal of Hydrometeorology. American Meteorological Society, 2014. Available online at: <<http://journals.ametsoc.org/doi/abs/10.1175/JHM-D-14-0046.1>>.

**Type of production:** Article **Format:** Journal

**Ranking:** 1 **Acting as:** Author or co-author of article in journal with external admissions assessment committee

**Impact source:** ISI **Category:** Meteorology & Atmospheric Sciences

**Impact index:** 3.573 **Journal in the top 25%:** Yes

**Position:** 15 **No. of journals in the cat.:** 76
- 5** R. Pimentel; J. Herrero; M.J. Polo. Estimating snow albedo patterns in a Mediterranean site from Landsat TM and ETM+ images. Remote Sensing for Agriculture, Ecosystems, and Hydrology XV. 8887 - 88870L, SPIE Digital Library, 2013.

**Type of production:** Article **Format:** Book

**Impact source:** SCOPUS



- 6** R. Pimentel; J. Herrero; M.J. Polo. Terrestrial photography as an alternative to satellite images to study snow cover evolution at hillslope scale. Remote Sensing for Agriculture, Ecosystems, and Hydrology XIV. 8531 - 85310Y, SPIE Digital Library, 2012.  
**Type of production:** Article **Format:** Book  
**Impact source:** SCOPUS

### Work presented in conferences at the national or international level

- 1** **Title:** Annual evolution of albedo during the snow season and albedo decay characteristics in the Pyrenees and Sierra Nevada (Spain): implications for snow modelling  
**Name of the conference:** 26th IUGG General Assembly 2015  
**Type of event:** Conference **Field of the conference:** International  
**Type of participation:** Poster  
**City:** Praha, Czech Republic  
**Date:** 06/2015  
**Organising institution:** International Union of Geodesy and Geophysics  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
I. López-Moreno; J Herrero; R. Pimentel; M.J. Polo; E. Morán-Tejeda; J.W. Pomeroy.
- 2** **Title:** Extreme values of snow-related variables in Mediterranean regions: trends and long-term forecasting in Sierra Nevada (Spain)  
**Name of the conference:** 26th IUGG General Assembly 2015  
**Type of event:** Conference **Field of the conference:** International  
**Type of participation:** Speaker  
**City:** Praha, Czech Republic  
**Date:** 06/2015  
**Organising institution:** International Union of Geodesy and Geophysics  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
M.J. Pérez-Palazón; R. Pimentel; J. Herrero; C. Aguilar; J.M. Perales; M.J. Polo.
- 3** **Title:** Comparison between snow albedo obtained from Landsat imagery and Copernicus/GMES albedo product in a Mediterranean site  
**Name of the conference:** European Geoscience Union General Assembly 2015  
**Type of event:** Conference **Field of the conference:** European Union  
**Type of participation:** Speaker  
**City:** Vienna, Austria  
**Date:** 04/2015  
**Organising institution:** European Geoscience Union  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
R. Pimentel; C. Aguilar; J. Herrero; M.J. Pérez-Palazón; M.J. Polo. "Geophysical Research Abstracts".
- 4** **Title:** Evolution of snow-covered area at hillslope scale using terrestrial photography  
**Name of the conference:** European Geoscience Union General Assembly 2015  
**Type of event:** Conference **Field of the conference:** European Union  
**Type of participation:** Speaker  
**City:** Vienna, Austria  
**Date:** 04/2015



**Organising institution:** European Geoscience Union

**With ext. admission assessment committee:** Yes

**Type:** Article

M.J. Pérez-Palazón; R. Pimentel; J. Herrero; J.M. Perales; M.J. Polo. "Geophysical Research Abstracts".

- 5** **Title:** Influence of climate change predictions on snow in Sierra Nevada Mountain (Spain)  
**Name of the conference:** European Geoscience Union General Assembly 2015  
**Type of event:** Conference **Field of the conference:** European Union  
**Type of participation:** Poster  
**City:** Vienna, Austria  
**Date:** 04/2015  
**Organising institution:** European Geoscience Union  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
M.J. Pérez-Palazón; R. Pimentel; J. Herrero; J.M. Perales; M.J. Polo. "Geophysical Research Abstracts".
- 6** **Title:** Selected examples of needs for long term pilot areas in Mediterranean catchments: a mountain traditional agricultural system and a large and regulated hydrographic basin in Southern Spain  
**Name of the conference:** European Geoscience Union General Assembly 2015  
**Type of event:** Conference **Field of the conference:** European Union  
**Type of participation:** Poster  
**City:** Vienna, Austria  
**Date:** 04/2015  
**Organising institution:** European Geoscience Union  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
M.J. Polo; J. Herrero; A. Millares; M.J. Pérez-Palazón; R. Pimentel; C. Aguilar; A. Jurado; E. Contreras; R. Gómez-Beas; M. Carpintero; Z. Gulliver. "Geophysical Research Abstracts".
- 7** **Title:** Terrestrial photography as a complementary measurement in weather stations for snow monitoring  
**Name of the conference:** European Geoscience Union General Assembly 2015  
**Type of event:** Conference **Field of the conference:** European Union  
**Type of participation:** Poster  
**City:** Vienna, Austria  
**Date:** 04/2015  
**Organising institution:** European Geoscience Union  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
R. Pimentel; M.J. Pérez-Palazón; J. Herrero; M.J. Polo. "Geophysical Research Abstracts".
- 8** **Title:** Estudio de la evolución de la nieve en ambientes semiaridos combinando modelado hidrológico y técnicas de teledetección  
**Name of the conference:** IV Congreso Científico de Investigadores en Formación de la Universidad de Córdoba  
**Type of event:** Conference **Field of the conference:** National  
**Type of participation:** Poster  
**City:** Cordoba, Andalusia, Spain  
**Date:** 19/11/2014  
**Organising institution:** Escuela de Doctrado de la Universidad de Córdoba  
**With ext. admission assessment committee:** Yes  
**Type:** Article





R. Pimentel.

- 9** **Title:** Analysis of snow spatial and temporary variability through the study of terrestrial photography in the Trevez river valley  
**Name of the conference:** SPIE Europe: Remote Sensing 2014  
**Type of event:** Conference **Field of the conference:** European Union  
**Type of participation:** Speaker  
**City:** Amsterdam, Holland  
**Date:** 25/09/2014  
**Organising institution:** SPIE. International Society of Optics and Photonics  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
M.J. Pérez-Palazón; R. Pimentel; J. Herrero; M.J. Polo. "Remote Sensing for Agriculture, Ecosystems, and Hydrology XVI".
- 10** **Title:** Snow evolution in a esmiarid mountainous area combining physical hydrological modelling and a spectral mixture analysis of Landsat imagery  
**Name of the conference:** The 3rd Remote Sensing and Hydrology Symposium (RSHS'14) and The 3rd International Conference of GIS/RS in Hydrology, Water Resources and Environment (ICGRHWE'14)  
**Type of event:** Conference **Field of the conference:** Non EU International  
**Type of participation:** Speaker  
**City:** Guangzhou, China  
**Date:** 26/08/2014  
**Organising institution:** IAHS  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
R. Pimentel; J. Herrero; M.J. Polo.
- 11** **Title:** Graphic user interface to preprocess Landsat TM, ETM+ and OLI images for hydrological applications  
**Name of the conference:** HIC 2014, 11th International Conference on Hydroinformatics  
**Type of event:** Conference **Field of the conference:** Non EU International  
**City:** New York, United States of America  
**Date:** 18/08/2014  
**Organising institution:** IAHR, IAHS and IWA  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
R. Pimentel; J. Herrero; M.J. Polo.
- 12** **Title:** Monitoring snow cover area in semiarid regions using terrestrial photography  
**Name of the conference:** HIC 2014, 11th International Conference on Hydroinformatics  
**Type of event:** Conference **Field of the conference:** Non EU International  
**Type of participation:** Speaker  
**City:** New York, United States of America  
**Date:** 18/08/2014  
**Organising institution:** IAHR, IAHS and IWA  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
R. Pimentel; M.J. Pérez-Palazón; J. Herrero; M.J. Polo.





- 13** **Title:** Monitoring Snow for Water Resources  
**Name of the conference:** Copernicus User Awareness & Training Event  
**Type of event:** Conference **Field of the conference:** European Union  
**Type of participation:** Poster  
**City:** Lisbon, Portugal  
**Date:** 14/02/2014  
**Organising institution:** CGI IT UK Ltd. Earth Observation Applications Engineer  
**With ext. admission assessment committee:** Yes  
R. Pimentel; C. Aguilar; J. Herrero; M.J. Pérez-Palazón; M.J. Polo.
- 14** **Title:** Estimating snow albedo patterns in a Mediterranean site from Landsat TM and ETM+ images  
**Name of the conference:** SPIE Europe: Remote Sensing 2013  
**Type of event:** Conference **Field of the conference:** European Union  
**Type of participation:** Speaker  
**City:** Dresde, Germany  
**Date:** 25/09/2013  
**Organising institution:** SPIE. International Society for optics and photonics  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
R. Pimentel; J. Herrero; M.J. Polo. "Remote Sensing for Agriculture, Ecosystems, and Hydrology XV".
- 15** **Title:** Terrestrial photography as an alternative to satellite images to study snow cover evolution at hillslope scale  
**Name of the conference:** SPIE Europe: Remote Sensing 2012  
**Type of event:** Conference **Field of the conference:** European Union  
**Type of participation:** Speaker  
**City:** Edimburgo, United Kingdom  
**Date:** 26/09/2012  
**Organising institution:** SPIE. International Society for Optics and Photonics  
**With ext. admission assessment committee:** Yes  
**Type:** Article  
R. Pimentel; J. Herrero; M.J. Polo. "Remote Sensing for Agriculture, Ecosystem, and Hydrology XIV".
- 16** **Title:** Measurement of snow properties using EIS-monitoring method in Sierra Nevada  
**Name of the conference:** 3rd Conference and working session. EUREKA 2012  
**Type of event:** Workshop **Field of the conference:** European Union  
**Type of participation:** Others  
**City:** Breno, Czech Republic  
**Date:** 20/09/2012  
**Organising institution:** GEOTets, Inc., University of **Type of institution:** University Technology  
**City:** Breno, Czech Republic  
**Type:** Scientific and technical document or report  
R. Pimentel; J. Herrero; J. Parilková; A. Millares; J. Veselý. "Measurement of snow properties using EIS-monitoring method in Sierra Nevada". ISBN 978-8-0214-4537-6
- 17** **Title:** Images data assimilation to improve a physical snow model  
**Name of the conference:** The 5th International Workshop on Catchment Hydrological Modeling and Data Assimilation "Catchments in a Changing Climate" "  
**Type of event:** Workshop **Field of the conference:** European Union  
**Type of participation:** Poster



**City:** Enschede, Overijssel, Holland

**Date:** 12/07/2012

**Organising institution:** Faculty of Geo-Information Science and Earth Observation. University of Twente

**City:** Enschede, Overijssel, Holland

**With ext. admission assessment committee:** Yes

R. Pimentel; J. Herrero; M.J. Polo.

**18 Title:** Assimilation of multiscale terrestrial photography data into a physical model of snow processes

**Name of the conference:** European Geoscience Union General Assembly 2012

**Type of event:** Conference

**Field of the conference:** European Union

**Type of participation:** Speaker

**City:** Vienna, Austria

**Date:** 23/04/2012

**Organising institution:** European Geoscience Union

**With ext. admission assessment committee:** Yes

**Type:** Article

R. Pimentel; J. Herrero; M.J. Polo. "Geophysical Research Abstracts". EGU2012 - 14, pp. 8820.

### Work presented in national or international conferences, seminars, workshops and/or courses

**1 Title:** Remote sensing and terrestrial photography data to monitor, model and calibrate snow dynamics in semi-arid conditions

**Name of the event:** Remote sensing based water and energy fluxes estimation in a changing environment

**Type of event:** Workshop

**Field of the event:** Non EU International

**Reasons for participation:** Speaker

**City:** Cordoba, Andalusia, Spain

**Date:** 18/09/2014

**Organising institution:** Centro de Investigación y Formación Agroalimentaria (IFAPA)

R. Pimentel.

**2 Title:** Snow in Mediterranean Environments

**Name of the event:** Lunch-talk

**Type of event:** Seminar

**Field of the event:** European Union

**Reasons for participation:** Speaker

**City:** Enschede, Overijssel, Holland

**Date:** 12/03/2013

**Organising institution:** Faculty of Geo-Information Science and Earth Observation. University of Twente

**Type of institution:** University

R. Pimentel. Available online at: <<http://www.itc.nl/Pub/WRS/WRS-Research/Lunch-talks.html>>.

## Experience in R&D&I management and participation in scientific committees

### Scientific advisory committees, scientific societies

**Committee title:** Chairman in HIC 2014, sesion R76: Use of Remote Sensing Techniques  
**Institution which it depends on:** IAHR/IWA Joint Committee on Hydroinformatics  
**City:** New York, United States of America  
**Start date:** 19/08/2014

## Other achievements

### Stays in public or private R&D&I centres

- 1** **institution:** University of Twente **Type of institution:** University  
**Faculty, institute or centre:** Faculty of Geo-Information Science and Earth Observation  
**City:** Enschede, Overijssel, Holland  
**Start-End date:** 04/03/2013 - 04/06/2013 **Duration:** 3 months  
**Funding institution:** Univerty of Cordoba **Type of institution:** University  
**Aims of the stay:** Doctorate  
**Acquired skills developed:** Implementation of data assimilation schemes for snow modelling in semiarid regions
- 2** **institution:** University of Granada **Type of institution:** University  
**City:** Granada, Andalusia, Spain  
**Start-End date:** 01/09/2010 - 28/02/2011 **Duration:** 6 months  
**Aims of the stay:** Doctorate  
**Acquired skills developed:** Study and analysis snow processes in semiarid regions
- 3** **institution:** University of Cordoba **Type of institution:** University  
**Faculty, institute or centre:** Department of Agronomy. ETSIAM  
**City:** Córdoba, Andalusia, Spain  
**Start-End date:** 15/07/2010 - 31/07/2010 **Duration:** 15 days  
**Aims of the stay:** Doctorate  
**Acquired skills developed:** Study hydrological processes and meteorological variables at different scales in semiarid regions

### Grants and scholarships obtained

- 1** **Name of the grant:** Young Scientist's Travel Award. EGU 2015  
**City:** Vienna, Austria  
**Conferring institution:** European Geoscience Union **Type of institution:** Associations and Groups  
**Conferral date:** 30/12/2014  
**Name of institution:** European Geoscience Union General Assembly 2015



- 2** **Name of the grant:** Fellowship for realization of stays for obtaining the international mention in the doctor title 2012  
**City:** Enschede, Overijssel, Holland  
**Aims:** Pre-doctoral  
**Conferring institution:** University of Cordoba      **Type of institution:** University  
**Conferral date:** 11/07/2012      **Duration of the grant:** 3 months  
**Name of institution:** University of Twente  
**Faculty, institute or centre:** Faculty of Geo-Information Science and Earth Observation
- 3** **Name of the grant:** Fellowship for the realization of the master degree in Environmental Hydraulics  
**Conferring institution:** Univerisity of Granada      **Type of institution:** University  
**Conferral date:** 30/11/2010

### Recognitions, distinctions and awards received throughout the career

**Description:** Award for the transfer of knowledge to society of the project "Transfer of advanced tools in hydrology: a multidisciplinary perspective from research to application" of the Research Group Fluvial Dynamics and Hydrology  
**Conferring institution:** Social Council of the University of Cordoba  
**Conferral date:** 2011