



**Ministerio de Economía y Competitividad.
Secretaría de Estado de Investigación,
Desarrollo e Innovación**

Curriculum Vitae

Full name: IÑIGO GÓMARA CARDALLIAGUET

Date: November 16, 2018

Personal Background Information**Family Name:** Gómara Cardalliaguet**First Name:** Iñigo**Date:** May 7, 2018**Date of Birth:** 17/03/1985**Gender:** Male

Current professional position**Institution/Organization:** Universidad Politécnica de Madrid (UPM)**Department.:** Research Centre for the Management of Agricultural and Environmental Risks (CEIGRAM)**Address:** C/ Senda del Rey, 13. Ciudad Universitaria 28040 Madrid, Spain.**Telephone number:** +34 91 452 48 15**Email:** i.gomara@upm.es**Specialization (UNESCO Codes):** 2501.03; 2501.06; 2502.06; 2501.21, 2502**Professional Category:** Postdoctoral researcher (Juan de la Cierva-Formación)

Research LinesClimate variability. Climate change. Extreme events. Agricultural and Environmental Risks.

Academic Data

Degree	University/Grading	Date
Degree in Physics	University of Salamanca (2.04/4)	June 2009
Advanced Studies Diploma	University of Salamanca (<i>Sobresaliente "cum laude"</i>)	March 2010
Master's Degree in Geophysics and Meteorology	Complutense University of Madrid (9.09/10)	October 2010
PhD in Physics http://eprints.ucm.es/35179/1/T36757.pdf	Complutense University of Madrid (<i>Sobresaliente "cum laude"</i>)	November 2015

Former professional or scientific activities

Position	Institution	Dates
Erasmus grant holder	School of Physics. University of Bristol.	September 2007 - June 2008
Collaboration Grant from the Ministry of Education and Sciences. Government of Spain.	Department of Atmospheric Physics. University of Salamanca (USAL)	November 2008 - July 2009
Grant holder of the Welfare projects "la Caixa" for Master studies.	Department of Geophysics and Meteorology. Complutense University of Madrid (UCM)	September 2009 - September 2010
Pre-doctoral researcher under contract	Department of Geophysics and Meteorology. Complutense University of Madrid (UCM)	April 2011 - December 2015
Post-doctoral researcher under contract	Department of Geophysics and Meteorology. Complutense University of Madrid (UCM)	May 2016 - January 2017
Post-doctoral researcher "Juan de la Cierva-Formación"	CEIGRAM. Technical University of Madrid (UPM)	Since February 2017

ANECA 2018: Positive Evaluation for “Profesor Ayudante Doctor”.

FOREIGN LANGUAGES SKILLS (A1 = elementary, A2 = basic, B1 =intermediate, B2 =upper intermediate, C1 = advanced, C2 = proficiency)

Language	Speaking	Understanding	Writing
English	C1	C1	C1
TOEFL iBT: 99/120 Certificate in Advanced English (ESOL). University of Cambridge Advanced English Language Studies. University of Bristol Official School of Languages (Spain): Certificate in Advanced English level			
French	B2	B2	B1
Official School of Languages (Spain): Certificate in Intermediate French level			

STAYS IN FOREIGN CENTRES

(Key: D = doctoral, P = postdoctoral, I = invited, C = under contract, O = others.)

Institut National de la Recherche Agronomique (INRA)

Key: P

City: Clermont-Ferrand

Country: France

Date: September 1, 2017

Duration: 14 weeks

Subject: Study of the influence of climate variability and change on vegetal production over Europe

Funding by: Technical University of Madrid. Programa Propio. Financial travel support for PDI research stays.

Department of Meteorology (University of Reading)

Key: D

City: Reading

Country: UK

Date: November 10, 2013

Duration: 2 weeks

Subject: Large-scale dynamics associated with clustering of extra-tropical cyclones affecting Western Europe

Funding by: University of Reading

Institute for Geophysics and Meteorology (University of Cologne)

Key: D

City: Cologne

Country: Germany

Date: October 1, 2012

Duration: 11 weeks

Subject: Dynamical analysis of explosive cyclones over Western Europe and implications for the dynamical and statistical downscaling of associated wind signatures.

Funding by: STSM COST Action: ES1102 – VALUE (<http://www.value-cost.eu/>)

Institute for Geophysics and Meteorology (University of Cologne)

Key: D

City: Cologne

Country: Germany

Date: June 23, 2012

Duration: 3 weeks

Subject: Rossby Wave-Breaking analysis of Explosive cyclones in the Euro-Atlantic sector.

Funding by: University of Cologne

Participation in R&D projects
(national and/or international, last five years)

1. Title of project: **SolACE - Solutions for improving Agroecosystem and Crop Efficiency for water and nutrient use**
Funded by: European Commission's H2020
Duration, from: 2017 up to: 2022
Responsible Researcher UPM: Miguel Quemada
Webpage of the project: <http://www.solace-eu.net>
2. Title of project: **Validation of the World Research Institute (WRI) classification of water deficit areas of interest to PepsiCo in the Iberian Peninsula**
Funded by: PepsiCo Europe Support Center S.L.
Duration, from: 2017 up to: 2018
Responsible Researcher UPM: Inés Mínguez Tudela
3. Title of project: **MACSUR – Modeling European Agriculture with Climate Change for food Security.**
Funded by: FACCE-JPI (Joint Programming Initiative for Agriculture, Climate Change, and Food Security)
Duration, from: 2012 up to: 2017
Responsible Researcher: Jørgen E. Olesen (Aarhus University)
Webpage of the project: <https://macsur.eu/>
4. Title of project: **PREFACE – Enhancing prediction of Tropical Atlantic climate and its impacts** Funded by: European Commission's Seventh Framework Programme (ref. 603521)
Duration, from: 2013 up to: 2017
Responsible Researcher: Noel Keenlyside (UiB)
Webpage of the project: <https://preface.b.uib.no/>
5. Title of project: **Multiscale climate variability: Agricultural and economic impacts**
Funded by: Spanish Ministry of economy and competitiveness CGL2012-38923-C02-01
Duration, from: 2012 up to: 2015
Responsible Researcher: Belén Rodríguez-Fonseca
Webpage of the project: <http://tropa.fis.ucm.es/mulclivar-project>
6. Title of project: **Resources update of the Physics laboratory Simeon Fongang (Atmosphere and ocean) at UCAD – Senegal.**
Funded by: Complutense University of Madrid
Duration, from: 2012 up to: 2013
Responsible Researcher: Elsa Mohino Harris.
7. Title of project: **Virtual Laboratory of Meteorology and Climate: Project of innovation in teaching quality.**
Funded by: Complutense University of Madrid
Duration, from: 2011 up to: 2012
Responsible Researcher: Belén Rodríguez-Fonseca
Webpage of the project: <http://meteolab.fis.ucm.es/>
8. Title of project: **Equilibrium Dynamics and Annular Internal Variability of the Extratropical Jet** Funded by: Spanish Ministry of Education and Science CGL2009-06944
Duration, from: 2009 up to: 2012
Responsible Researcher: Pablo Zurita Gotor

9. Title of project: **Tropical Atlantic Variability and the Climate Shift**
 Funded by: Spanish Ministry of Education and Science CGL2009-10285
 Duration, from: 2009 up to: 2012
 Responsible Researcher: Belén Rodríguez-Fonseca
10. Title of project: **Micrometeorology and Climate Variability**
 Funded by: Complutense University of Madrid and Bank Santander
 Duration, from: 2009 up to: 2011
 Responsible Researcher: Carlos Yagüe Anguís
 Webpage of the project: <http://www.ucm.es/gr58-08>

Scientific-Technical Publications

JCR – Submitted

- **Iñigo Gómara**, Gianni Bellocchi, Raphaël Martin, Belén Rodríguez-Fonseca, Margarita Ruiz-Ramos (2018) Influence of climate variability on the forage production of a permanent grassland in the French Massif Central. *Agricultural and Forest Meteorology*.

JCR – Published

1. Moussa Diakhate, Belén Rodríguez-Fonseca, **Iñigo Gómara**, Elsa Mohino, Abdou Lahat Dieng, Amadou Tierno Gaye (2018) Oceanic Forcing on Interannual Variability of Sahel Heavy and Moderate Daily Rainfall Events. *Journal of Hydrometeorology*. <https://doi.org/10.1175/JHM-D-18-0035.1>. **Q1 – IF 3.641**
2. **Iñigo Gómara**, Elsa Mohino, Teresa Losada, Marta Domínguez, Roberto Suárez-Moreno, Belén Rodríguez-Fonseca (2017) Impact of dynamical regionalization on precipitation biases and teleconnections over West Africa. *Clim. Dyn.* 1-26, <https://doi.org/10.1007/s00382-017-3886-4>. **Q1 – IF 4.146**
3. Belén Rodríguez-Fonseca, Roberto Suárez-Moreno, Blanca Ayarzagüena, Jorge López-Parages, **Iñigo Gómara**, Julián Villamayor, Elsa Mohino, Teresa Losada, Antonio Castaño-Tierno (2016) A Review of ENSO Influence on the North Atlantic. A Non-Stationary Signal. *Atmosphere*, 7, 87, DOI:10.3390/atmos7070087 **Q3 – IF 1.487**
4. **Iñigo Gómara**, Belén Rodríguez-Fonseca, Pablo Zurita Gotor, Sven Ulbrich, Joaquim G. Pinto (2016) Abrupt transitions in NAO control of explosive North Atlantic cyclone development, *Clim. Dyn.*, 47, 3091-3111, DOI 10.1007/s00382-016-3015-9 **Q1 – IF 4.146**
5. Carlos Román Cascón, Carlos Yagüe, Samuel Viana, Mariano Sastre, Gregorio Maqueda, Marie Lothon, and **Iñigo Gómara** (2015) Near monochromatic ducted Gravity Waves associated with a convective system close to the Pyrenees. *Q. J. R. Meteorol. Soc.*, 141, 1320-1332, DOI: 10.1002/qj.2441 **Q1 – IF 3.669**
6. Joaquim G. Pinto, **Iñigo Gómara**, Giacomo Masato, Helen F. Dacre, Tim Woollings, and Rodrigo Caballero (2014) Large-scale dynamics associated with clustering of extra-tropical cyclones affecting Western Europe. *J. Geophys. Res. Atmos.*, 119, 13704–13719, DOI: 10.1002/2014JD022305 **Q1 – IF 3.426**
7. **Iñigo Gómara**, Belén Rodríguez Fonseca, Pablo Zurita Gotor, and Joaquim G. Pinto (2014) On the relation between explosive cyclones affecting Europe and the North Atlantic Oscillation. *Geophys. Res. Lett.*, 41, 2182–2190, doi: 10.1002/2014GL059647 **Q1 – IF 4.196**

8. **Iñigo Gómara**, Joaquim G. Pinto, Tim Woollings, Giacomo Masato, Pablo Zurita Gotor, and Belén Rodríguez Fonseca (2014) Rossby wave-breaking analysis of explosive cyclones in the Euro-Atlantic sector. Q. J. R. Meteorol. Soc. 140: 738–753, DOI:10.1002/qj.2190 **Q1 – IF 5.131**

Publication Metrics

Source: Google Scholar; H-index 6; Total cites 109.
<https://scholar.google.es/citations?user=Gp1OSI0AAAAJ&hl=es>

Other contributions

1. Belén Rodríguez Fonseca, **Iñigo Gómara**, and Jorge López Parages (2014) Sobre el clima en el Atlántico Norte y su variabilidad. madrid+d
(<http://www.madrimasd.org/informacionldi/analisis/analisis/analisis.asp?id=60730>)
2. Jorge López Parages, Julián Villamayor, **Iñigo Gómara**, Teresa Losada, Marta Martín Rey, Elsa Mohino, Irene Polo, Belén Rodríguez Fonseca, and Roberto Suárez (2013). Nonstationary interannual teleconnections modulated by multidecadal variability. Física de la Tierra, 25, 11-39.
3. **Iñigo Gómara**, Belén Rodríguez Fonseca, and Pablo Zurita Gotor (2012) Explosive cyclones in the North Atlantic: NAO influence and multidecadal variability. Spanish Association of Climatology Publications A-series, n.8. ISSN 978-84-695-4331-3
4. **Iñigo Gómara**, Carlos Yagüe, Belén Rodríguez Fonseca, and Concepción Rodríguez Puebla (2010). Study of extratropical cyclone Klaus: Possible connections with the NAO. Meteorology and Renewable energies. Spanish Meteorological Society. ISSN: 978 – 84 – 613 -9596 – 5

Leading Author Presentations in Scientific Congresses

1. **Gómara I.**, Mohino E., Losada T. Domínguez M., Suárez-Moreno R., Rodríguez-Fonseca B. 2018: Impact of dynamical regionalization of precipitation biases and teleconnections over West Africa. Poster presentation at PREFACE (EU/FP7) final assembly. Arrecife, Lanzarote (Canary Islands, Spain) 17 – 20 April 2018
2. **Gómara I.**, Rodríguez-Fonseca B., Zurita-Gotor P., Ulbrich S., Pinto J.G. 2018: Abrupt transitions in the NAO control of explosive north Atlantic cyclone development. Poster presentation at PREFACE (EU/FP7) final assembly. Arrecife, Lanzarote (Canary Islands, Spain) 17 – 20 April 2018
3. **Gómara I.**, Bellocchi G., Martin R., Ruiz-Ramos M. 2018: Influence of climate variability on the forage production of a permanent grassland in the French Central Massif. PICO presentation at EGU General Assembly 2018. Vienna, Austria, April 8 - 12, 2018 (**SOLICITED**).
4. **Gómara I.**, Mohino E., Losada T. Domínguez M., Suárez-Moreno R., Rodríguez-Fonseca B. 2018: Impact of dynamical regionalization of precipitation biases and teleconnections over West Africa. Poster presentation at EGU General Assembly 2018. Vienna, Austria, April 8 - 12, 2018.
5. **Gómara I.**, Rodríguez-Fonseca B., Zurita-Gotor P., Ulbrich S., Pinto J.G. 2018: Abrupt transitions in the NAO control of explosive north Atlantic cyclone development. Poster presentation at EGU General Assembly 2018. Vienna, Austria, April 8 - 12, 2018

6. **Gómara, I.**, Mohino E., Losada T., Domínguez M., Rodríguez-Fonseca B. 2016: Impact of dynamical regionalization on precipitation biases and teleconnections of the West African Monsoon. Oral presentation at the CLIVAR-PIRATA-PREFACE tropical Atlantic variability conference 27 November – 1 December 2016, Paris, France.
7. **Gómara, I.**, Rodríguez-Fonseca B., Zurita-Gotor, P., Pinto, J.G. 2015: On the relation between explosive cyclones affecting Europe and the North Atlantic Oscillation. Oral presentation at the International Symposium CLIMATE-ES 2015. Tortosa, Spain, March 11 - 13, 2015.
8. **Gómara, I.**, Rodríguez-Fonseca B., Zurita-Gotor, P., Pinto, J.G. 2014: On the relation between explosive cyclones affecting Europe and the North Atlantic Oscillation. Oral presentation at the STORMEx 4th European storms workshop - 8-10 Sep 2014 IPMA, Lisbon, Portugal.
9. **Gómara, I.**, Pinto, J.G., Woollings, T., Masato, G., Zurita-Gotor, P., Rodríguez-Fonseca, B., 2014: Rossby Wave-Breaking analysis of Explosive cyclones in the Euro-Atlantic sector. Poster presentation at the STORMEx 4th European storms workshop - 8-10 Sep 2014 IPMA, Lisbon, Portugal.
10. **Gómara, I.**, Rodríguez-Fonseca B., Zurita-Gotor, P., Pinto, J.G. 2014: On the relation between explosive cyclones affecting Europe and the North Atlantic Oscillation. Oral presentation at the Spanish Meteorological Society Meeting 2014. Oviedo, Spain, March 7 - 9, 2014.
11. **Gómara, I.**, Pinto, J.G., Woollings, T., Masato, G., Zurita-Gotor, P., Rodríguez-Fonseca, B., 2013: Rossby Wave-Breaking analysis of Explosive cyclones in the Euro-Atlantic sector. Poster presentation at EGU General Assembly 2013. Vienna, Austria, April 7 - 12, 2013.
12. **Gómara, I.**, B. Rodríguez-Fonseca and P. Zurita-Gotor, 2012: Explosive cyclones in the North Atlantic: NAO influence and multidecadal variability. Oral presentation at the 8th International meeting of the Spanish Association of Climatology. Salamanca, Spain. September 25 - 28, 2012.
13. **Gómara, I.**, B. Rodríguez-Fonseca and P. Zurita-Gotor, 2011: Explosive cyclones over Europe: Influence of the North Atlantic Oscillation in different timescales. Oral presentation at the 11th EMS Annual Meeting/10th ECAM. Berlin, Germany, September 12 - 16, 2011.
14. **Gómara, I.**, B. Rodríguez-Fonseca, C. Yagüe and C. Rodríguez-Puebla, 2011: Influence of the North Atlantic Oscillation on the properties of explosive cyclones. Oral and poster presentations at the EGU General Assembly 2011. Vienna, Austria, April 3 - 8, 2011.
15. **Gómara, I.**, C. Rodríguez-Puebla, C. Yagüe and B. Rodríguez-Fonseca, 2010: An analysis of the characteristics of extratropical cyclone Klaus. Poster presentation at the EGU General Assembly 2010. Vienna, Austria, May 2 - 7, 2010.
16. **Gómara, I.**, C. Rodríguez-Puebla, C. Yagüe and B. Rodríguez-Fonseca, 2010: Study of extratropical cyclone Klaus: Possible connections with the NAO. Oral presentation at the Spanish Meteorological Society Meeting 2010. Seville, Spain, March 1 - 3, 2010.

Programming skills

- Extended knowledge of Linux and Windows
- Extended knowledge of MATLAB and GrADS

- Extended Knowledge in Crop Modelling. Decision Support System for Agrotechnology Transfer (DSSAT), Grassland Model PaSim and Farm model FarmSim.
- Basic knowledge of NetCDF
- Notions of R, Fortran and C++

Training activities, seminars and scientific disclosure

Training Schools

1. **Title:** The Nansen Tutu Summer School on Ocean, Climate and Marine Ecosystem
Date and location of the event: University of Cape Town (South Africa). 1-8 December 2014
Organizing group: European Project PREFACE
Contribution: Trainee (full grant awarded for participation).
 2. **Title:** Second VALUE training school: "Statistical and Dynamical Downscaling of Extreme Events"
Date and location of the event: ICTP, Trieste (Italy). 21-31 October 2013
Organizing group: COST ACTION ES1102: VALUE
Contribution: Trainee (full grant awarded for participation).
 3. **Title:** The UCLA ocean-atmosphere coupled model. Description, compilation and running. Dr. Heng Xiao (UCLA).
Date and location of the event: Complutense University of Madrid. June 2010.
Organizing group: Micrometeorology and Climate variability group. Department of Geophysics and Meteorology. Complutense University of Madrid.
Contribution: Participant.
-

Courses & Seminars

1. **Title:** Basic/Intermediate course of R programming
Date and location of the event: January 8, 2018. Madrid (Spain).
Organizing Group: CEIGRAM-UPM
Contribution: Participant
2. **Title:** Climate Variability and Climate Services: Applications on Agronomy
Date and location of the event: September 19, 2017. Clermont-Ferrand (France).
Organizing Group: Institut National de la Recherche Agronomique (INRA UMR UREP)
Contribution: Speaker
3. **Title:** Service-learning
Date and location of the event: April 24, 2017. Madrid (Spain).
Organizing Group: Instituto de Ciencias de la Educación (ICE). Universidad Politécnica de Madrid.
Contribution: Participant
4. **Title:** Learning and Adaptative systems
Date and location of the event: April 5, 2017. Madrid (Spain).
Organizing Group: Instituto de Ciencias de la Educación (ICE). Universidad Politécnica de Madrid.
Contribution: Participant
5. **Title:** Experiential Learning

Date and location of the event: April 3, 2017. Madrid (Spain).
Organizing Group: Instituto de Ciencias de la Educación (ICE). Universidad Politécnica de Madrid.
Contribution: Participant

6. **Title:** Educative applications: Gamification
Date and location of the event: March 31, 2017. Madrid (Spain).
Organizing Group: Instituto de Ciencias de la Educación (ICE). Universidad Politécnica de Madrid.
Contribution: Participant
7. **Title:** Climate Variability, Climate Services and Big Data
Date and location of the event: December 2, 2016. Madrid (Spain).
Organizing Group: Bank Santander, HP Enterprise and Universidad Complutense de Madrid.
Contribution: Speaker
8. **Title:** HHH talk: "Rossby wave-breaking analysis of explosive cyclones in the Euro-Atlantic sector".
Date and location of the event: November 11, 2013. Reading (UK).
Organizing group: Dynamical Processes Group. Department of Meteorology. University of Reading.
Contribution: Speaker
9. **Title:** Seminar: Explosive cyclones in the North Atlantic: Climatology, variability and dynamical analysis.
Date and location of the event: November 23, 2011. Madrid (Spain).
Organizing group: Complutense University of Madrid.
Contribution: Speaker.
10. **Title:** Seminar. Deep convection and Supercells.
Date and location of the event: July 3-4, 2010. Valsain (Spain).
Organizing group: Spanish Meteorological Society and AEMET.
Contribution: Participant.

Scientific disclosure

1. **Title:** XIV Science Week. Laboratory of Ocean and Atmosphere.
Date and location of the event: November 3-16, 2014. Madrid (Spain).
Organizing group: Community of Madrid.
2. **Title:** XIII Science Week. Laboratory of Ocean and Atmosphere.
Date and location of the event: November 4-17, 2013. Madrid (Spain).
Organizing group: Community of Madrid.
Contribution: Collaborator.
3. **Title:** Virtual Laboratory of Meteorology and Climate
Date and location of the event: November 4-17, 2012. Madrid (Spain).
Organizing group: Complutense University of Madrid
Contribution: Collaborator.
Webpage: <http://meteolab.fis.ucm.es>
4. **Title:** Scientific divulgation: experiments of Meteorology and Climate
Date and location of the event: May 18, 2012. Primary School "República de Venezuela", Madrid (Spain)
Organizing group: Tropical Atlantic Variability Group (UCM)
Contribution: Collaborator.

5. **Title:** Scientific divulgation: experiments of Meteorology and Climate. Guided tour to the faculty of Aprocor Foundation
Date and location of the event: March 16, 2012. Complutense University of Madrid, Madrid (Spain)
Organizing group: Physics Faculty. Complutense University of Madrid.
Contribution: Collaborator.
 6. **Title:** XI Science Week. Laboratory of Ocean and Atmosphere.
Date and location of the event: November 7-20, 2011. Madrid (Spain).
Organizing group: Community of Madrid.
Contribution: Collaborator.
-

Management & representation activities

Organizing group member. PREFACE KICK-OFF Meeting, 2-4 December 2013, UCM Madrid, Spain.
<http://preface.b.uib.no/events/meetings/kick-off-meeting-2013/>

PhD students' representative at Dept. of Geophysics and Meteorology - Universidad Complutense de Madrid, 2011/2012.

Review activities

Peer Review: Journal of Geophysical Research - Atmospheres (IF 3.318); Regional Environmental Change (IF 2.872).

Research/Congress awards

Title: Young Scientist Award

Meeting: 8th International meeting of the Spanish Association of Climatology. Salamanca, Spain. September 25 - 28, 2012.

Contribution: Explosive cyclones in the North Atlantic: NAO influence and Multidecadal Variability.
