

NOELIA LÓPEZ DE LA FRANCA AREMA



 Spanish
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- **Languages:** English intermediate academic level
- **OS:** Linux, Windows
- **Programming:** R, Fortran90
- **Text software:** Latex, Markdown, Vim
- **Data science:** Ferret, Grads, CDO

Climatologist with environmental background focused on the statistical analysis of large databases from numerical climate models. I am developing my postdoctoral fellowship in the study of different definitions of seasons at global scale from climatic and phenological perspective under conditions of climate change. In addition, I worked on the analysis of extreme temperature and precipitation events. My educational trajectory and professional experience allow me to work in interdisciplinary groups. I am interested in environmental education as a tool to bring science and society closer.

EMPLOYMENT HISTORY

2021-Current	Post-doc fellowship	Centro de investigaciones del Mar y la Atmósfera (CIMA-UBA-CONICET, Argentina)
2014-19	PhD student	Centro de investigaciones del Mar y la Atmósfera (Argentina)
2010-13	Project researcher	Instituto de Ciencias Ambientales - UCLM
2009	Child and youth free time activities monitor	Malagón council (España)

ACADEMIC EDUCATION

2021	PhD in Atmospheric and Ocean Sciences	Universidad de Buenos Aires (UBA-Argentina)	<u>Theme:</u> <i>Characterization of thermal and fitophenological seasons in extratropical areas.</i> <u>Advisors:</u> Claudio Menéndez (UBA), Pedro Flombaum (UBA), Enrique Sánchez (UCLM). <u>Fellowships:</u> CONICET PhD fellowship (2014-19)
2009	Environmental Science Degree	Universidad de Castilla - La Mancha (UCLM-España)	<u>Theme:</u> <i>Areas of plants in two bioclimatic systems of boreal regions in Eurasia.</i> <u>Advisors:</u> Ilpo Koukka (University of Helsinki), Rosa Badia (UCLM). <u>Fellowships:</u> Erasmus(2008-09), MEC(2004-2008)

PhD COURSES

2017	Scientific Communication	Faculty of Exact and Natural Sciences(FCEN)-UBA.
2016	Statistical Methods applied to atmospheric science	Department of Atmospheric Sciences and the Oceans(DCAO)-FCEN-UBA

2015	Climate change	DCAO-FCEN-UBA
2014	Global and south America climate variability basis	DCAO-FCEN-UBA
2014	Ecosystems regional analysis through remote sensing	Graduate school Ing. Alberto Soriano-Agronomy Faculty-UBA

RELEVANT COURSES

2017	Geophysical Fluid Simulation-Fortan90	12 hrs	CNRS-CONICE-FCEN-UBA
2016	Scientific research papers: English writing practice	30 hrs	FCEN.UBA
2011	Regional climate modelling and its use for impacts research	125 hrs	Danish Meteorological Institute
2011	I Workshop of Climate Change scenarios and regionalization	20 hrs	Oficina Española de Cambio Climático
2010	Floods analysis and risk management	300 hrs	Facultad de Ciencias Ambientales y Bioquímica-UCLM
2010	Use of GIS Tools to Delineate Flooding Areas	20 hrs	Facultad de Ciencias Ambientales y Bioquímica-UCLM
2009	Environmental expert	20 hrs	Asociación de Ciencias Ambientales de Castilla La Mancha
2009	Training of Environmental Educators	50 hrs	Asociación Española de Educación Ambiental
2009	Generation of Innovative Ideas and Development of Entrepreneurial Projects	50 hrs	UCLM
2008	Youth Activities Monitor	350 hrs	Instituto de la Juventud de Castilla La Mancha

SCIENTIFIC BACKGROUND

PEER-REVIEWED JOURNAL ARTICLES

- 2019 Zaninelli PG, Menéndez CG, Falco M, **López-Franca N**, Carril AF. *Future hydroclimatological changes in South America based on an ensemble of regional climate models*. [Clim Dyn 52:819–830](#)
- 2016 **López-Franca N**, Zaninelli PG, Carril AF, Menéndez CG, Sánchez E. *Changes in 21st century scenarios for temperature extreme indices over South America derived from an ensemble of regional climate models*. [Clim Res 68:151-168](#). Contribution to the CR Special:CLARIS-La Plata Basin: climate variability and uncertainties
- 2016 Carril AF, Cavalcanti IFA, Menéndez CG, Sörensson A, **López-Franca N**, Rivera JA, Robledo F, Zaninelli PG, Ambrizzi T, Penalba OC, Da Rocha RP, Sánchez E, Bettolli L, Pessacg N, Renom M, Ruscica R, Solman S, Tencer B, Grimm A, Rusticucci M, Cherchi A, Tedeschi R, Zamboni L. *Extreme events in La Plata basin: a retrospective analysis of what we have learned during CLARIS-LPB project*. [Clim Res 68:95-116](#). Contribution to the CR Special:'CLARIS-La Plata Basin: climate variability and uncertainties
- 2015 **López-Franca N**, Sánchez E, Losada T, Domínguez M, Romera R, Gaertner MA. *Markovian characteristics of dry spells over the Iberian Peninsula under present and future conditions using ESCENA ensemble of regional climate models*. [Clim Dyn 45:661–677](#)
- 2013 **López-Franca N**, Sánchez E, Domínguez M. *Changes in the onset and length of seasons from an ensemble of regional climate models over Spain for future climate conditions*. [Theor Appl Climatol, 114:635-642](#)
- 2013 **López-Franca N**, Sánchez E, Romera R, Domínguez M. *Dry spells analysis over the Mediterranean basin for present and climate change conditions using ENSEMBLES regional climate models*. [Física de la Tierra: 125, 123:136](#)

- 2011 Sánchez E, Domínguez M, Romera R, **López-Franca N**, Gaertner MA, Gallardo C, Castro M. *Regional modeling of dry spells over the Iberian Peninsula for present climate and climate change conditions.* [Clim Change 107,625](#)

MEETINGS AND CONFERENCES PARTICIPATIONS

- | | | |
|------|---|--|
| 2018 | LatinR 2018. Buenos Aires (Argentina). 3-7/09 | <u>Asistant</u> |
| 2018 | EGU 2018 General Assembly. Vienna (Austria). 8–13/04 | Sánchez E, López-Franca N , Menéndez CG, Carril AF. <i>A proposal to define seasons based on daily temperature annual cycle through their daily values and changes extremes.</i> Geophysical Research Abstracts, vol. 20. <u>Poster</u> . Link |
| 2016 | International Conference on Regional Climate. ICRC-CORDEX 2016. Stockholm university. Stockholm (Sweden). 17-20/05 | López-Franca N , Sánchez E, Menéndez CG, Carril AF. <i>A review of procedures to compute climatological length of seasons based on CORDEX simulations over Europe and South America.</i> <u>Poster</u> . Link |
| 2016 | 16th European Meteorological Society Annual Meeting. Göttingen (Germany).12-16/09 | López-Franca N , Sánchez E, Menéndez CG, Carril AF. <i>A review of procedures to compute climatological length of seasons based on CORDEX simulations over Europe and South and southern hemisphere domains through the analysis of annual daily temperatures cycle model ensembles.</i> <u>Poster</u> . Link |
| 2015 | Avances en la detección y proyecciones del cambio climático en España a la luz del 5° informe del IPCC. Tortosa (Spain). 11-13/03 | Fernández J, Fita LI, García-Díez M, Montávez JP, Jiménez-Guerrero P, Domínguez M, Romera R, López-Franca N , Sánchez E, Liguori G, Cabos WD, Gaertner MA. <i>A set of regional climate change scenarios over Spain: ESCENA Project.</i> <u>Poster</u> . Link |
| 2014 | 3rd International Lund Regional-Scale Climate Modelling Workshop. Lund (Sweden). 16-19/06 | López-Franca N , Sánchez E, Domínguez M, Losada T, Romera R. <i>Markovian behaviour of dry spells over the Iberian Peninsula using ESCENA regional climate models.</i> <u>Poster</u> . Link |
| 2013 | International Conference on Regional Climate-CORDEX 2013. Brussels (Belgium). 04-07/11 | Carril AF, López-Franca N , Menéndez CG, Sánchez E. <i>Changes in 21st century scenarios for temperature extreme indices over South America derived from an ensemble of regional climate models.</i> <u>Poster</u> . Link |
| 2013 | EGU 2013 General Assembly. Vienna (Austria). 07-12/04 | Ruíz-Ramos M, Pérez-López D, Sánchez E, Centeno A, Dosio A, López-Franca N . <i>Improving modelled impacts on the flowering of temperate fruit trees in the Iberian Peninsula of climate change projections for 21st century.</i> Geophysical Research Abstracts, vol. 15. <u>Poster</u> . Link |
| 2012 | MedCLIVAR 2012 Conference. Madrid (Spain). 26-28/09 | Sánchez E, López-Franca N . <i>Regional modelling of dry spells characteristics over the Mediterranean basin for present and future climate conditions.</i> The climate of the Mediterranean region: understanding its evolution and effects on environment and societies:Book of Abstracts. <u>Poster</u> . Link

Gaertner MA, Domínguez M, Romera R, Sánchez E, López-Franca N , Fernández J, García-Díez M, Fita LI, Montávez JP, Jiménez-Guerrero P, Cabos WD, Liguori G. <i>Regional scenarios for the Spanish climate change adaptation plan (PNACC-2012): dynamical downscaling results.</i> The climate of the Mediterranean region: understanding its evolution and effects on environment and societies:Book of Abstracts. <u>Ponencia oral</u> . Link |

- 2012 8th Congreso Internacional AEC. Cambio Climático: Extremos e Impactos. Salamanca (Spain). 25–28/09
 Fernández J, Fita LI, García-Díez M, Montávez JP, Jiménez-Guerrero P, Domínguez M, Romera R, **López-Franca N**, Sánchez E, Liguori G, Cabos WD, Gaertner MA. *Escenarios PNACC 2012. Resultados de Regionalización Dinámica*. Publicaciones de la Asociación Española de Climatología (AEC),2012, Serie A,8. ISBN:978-84-695-4331-3. Oral communication. [Link](#)
López-Franca N, Sánchez E, Domínguez M. *Cambios en la duración de las estaciones sobre la Península Ibérica para clima presente y en condiciones de cambio climático a partir de un conjunto de modelos regionales de clima (ENSEMBLES)*. Publicaciones de la Asociación Española de Climatología (AEC), 2012, Serie A,8. ISBN:978-84-695-4331-3. Oral communication. [Link](#)
 Sánchez E, Domínguez M, Romera R, **López-Franca N**, Gaertner MA, Gallardo C, Castro M. *Modelización regional de periodos secos sobre la Península Ibérica en clima presente y condiciones de cambio climático*. Publicaciones de la Asociación Española de Climatología (AEC),2012, Serie A,8. ISBN:978-84-695-4331-3. Poster. [Link](#)
- 2012 XXXII Jornadas Científicas de la AME-13 Encuentro Hispano-Luso de Meteorología. Alcobendas (España). 25-28/05
López-Franca N, Sánchez E, Domínguez M. *Modelización regional de eventos extremos de cambio climático sobre la Península Ibérica: periodos secos y duración de las estaciones*. ISBN10:84-695-6430-7. Oral communication. [Link](#)
 Domínguez M, Romera R, Sánchez E, **López-Franca N**, Gaertner MA. *Simulaciones climáticas regionales sobre Marruecos a partir de 5 MRCs: análisis de campos medios y extremos de precipitación y temperatura*. Oral communication. ISBN10: 84-695-6430-7. [Link](#)
- 2012 EGU 2012 General Assembly. Vienna (Austria). 22-27/04
López-Franca N, Sánchez E. *Changes in the length of the seasons over the Iberian Peninsula for future conditions from ENSEMBLES regional climate models ensemble*. Geophysical Research Abstracts, vol.14. Poster. [Link](#)
 Pérez-López D, Ruíz-Ramos M, Sánchez E, Centeno A, Prieto-Egido I, **López-Franca N**. *Influence of climate change on the flowering of temperate fruit trees*. Geophysical Research Abstracts, vol.14. Poster. [Link](#)
- 2011 EGU 2011 General Assembly. Vienna (Austria). 03-08/04
López-Franca N, Romera R, Domínguez M, Sánchez E. *Generation of a database from regional climate change projections over Castilla-La Mancha region (Central Spain): analysis of climatic processes*. Geophysical Research Abstracts, vol.13. Poster. [Link](#)

RESEARCH PROJECTS

- | | | |
|---------|---|-------------|
| 2015-17 | Variabilidad climática e interacción superficie continental-atmósfera (PIP-112-201501-00402). PI: Claudio G. Menéndez. Funded by CONICET (Argentina) | PhD student |
| 2012-15 | Climatología numérica de extremos en Sudamérica: influencia remota y local (PIP-112- 201101-00932). PI: Andrea F. Carril. Funded by CONICET (Argentina) | PhD student |
| 2013 | Generación de Escenarios probabilísticos de impacto y adaptación al cambio climático en la agricultura de la zona centro de la península. Herramienta de soporte científico a la toma de decisiones,V.2 (2013-COB-4886). PI: Manuel de Castro. Funded by European Unión | Researcher |
| 2010-13 | Escenarios de cambio climático para Castilla-La Mancha: efectos atmosféricos y generación de bases de datos adaptadas para los sectores afectados (POII10-0255-8836). PI: Enrique Sánchez. Funded by Junta de Comunidades de Castilla La Mancha, España | Researcher |

- 2008-12 CLARIS-LPB (A Europe-South America Network for Climate Change Assessment and Impact Studies in La Plata Basin). Funded by European Comission (7th Framework Programme, Grant Agreement 212492). <http://www.claris-eu.org/> Research collaboration
- 2008-12 Generación de escenarios regionalizados de cambio climático en España con modelos de alta resolución (ESCENA). PI: Miguel Ángel Gaertner. Funded by Ministerio de Presidencia (España) Research collaboration

EVALUATION ACTIVITIES

- 2013 Atmosphere (ISSN: 2073-4433) Reviewer. [Link](#)

ADVISOR EXPERIENCE

- 2018 Degree Thesis [Mateos Muñoz MJ. Are summers getting longer in Toledo?: Climatic study based on daily temperature](#) Co-advisor with Dr. Enrique Sánchez. Facultad de Ciencias Ambientales y Bioquímica (UCLM)

SCIENTIFIC COMMUNITY INVOLVEMENT

- 2017-18 [LINUX INSTALL PARTY](#). CIMA-DCAO-FCEN-UBA Organizing committee

AWARDS AND DISTINCTIONS

- 2012 Young researcher award XXXII Jornadas Científicas de la Asociación Meteorológica Española
- 2009 Best entrepreneur project of Toledo campus III Curso de Generación de Ideas Innovadoras y Desarrollo de Proyectos Emprendedores. UCLM