



Verónica Martín Gómez

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**Verónica Martín Gómez**

Surname(s): **Martín Gómez**
 Name: **Verónica**
 DNI: **03924768W**
 ORCID: **0000-0002-7855-4893**
 Date of birth: **14/09/1988**
 Gender: **Female**
 Nationality: **Spain**
 Country of birth: **Spain**
 Aut. region/reg. of birth: **Castile-La Mancha**
 City of birth: **Toledo**
 Email: **vero.martin.gomez@gmail.com**

Current professional situation

Employing entity: Universidad Complutense de Madrid **Type of entity:** University
Department: Departamento de Física de la Tierra y Astrofísica, Facultad de Ciencias Físicas
Professional category: Postdoctoral researcher
Start date: 23/04/2019
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Primary (UNESCO code): 250100 - Atmospheric sciences; 250200 - Climatology; 250900 - Meteorology
Performed tasks: Postdoctoral researcher in Tropical Atlantic Variability and predictability

Previous positions and activities

| | Employing entity | Professional category | Start date |
|----------|---|-----------------------------------|-------------------|
| 1 | Universidad de la República, Uruguay | Teacher Assistant | 01/08/2017 |
| 2 | Programa de Desarrollo de Ciencias Básicas , Universidad de la República, Uruguay | Postdoctoral researcher | 15/03/2017 |
| 3 | Universidad de la República, Uruguay | PhD student and Teacher Assistant | 13/11/2015 |
| 4 | Universidad de la República, Uruguay | PhD student | 30/10/2012 |

1 **Employing entity:** Universidad de la República, Uruguay **Type of entity:** University
Professional category: Teacher Assistant
Start-End date: 01/08/2017 - 20/04/2019 **Duration:** 1 year - 7 months - 20 days

2 **Employing entity:** Programa de Desarrollo de Ciencias Básicas , Universidad de la República, Uruguay
Professional category: Postdoctoral researcher



Start-End date: 15/03/2017 - 15/03/2019

Duration: 2 years

3 **Employing entity:** Universidad de la República, Uruguay **Type of entity:** University

Professional category: PhD student and Teacher Assistant

Start-End date: 13/11/2015 - 31/07/2017

Duration: 1 year - 8 months - 18 days

4 **Employing entity:** Universidad de la República, Uruguay **Type of entity:** University

Professional category: PhD student

Start-End date: 30/10/2012 - 29/10/2015

Duration: 3 years



Education

University education

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

- 1 **University degree:** Doctorate
Name of qualification: Doctor in Physics
Degree awarding entity: Universidad de la República, Uruguay **Type of entity:** University
Date of qualification: 02/2017
- 2 **Name of qualification:** Master in Geophysics and Meteorology
Degree awarding entity: Universidad Complutense de Madrid **Type of entity:** University
Date of qualification: 09/2012
- 3 **Name of qualification:** Degree in Physics
Degree awarding entity: Universidad Complutense de Madrid **Type of entity:** University
Date of qualification: 09/2011

Doctorates

Doctorate programme: Programa de desarrollo de Ciencias Básicas Área Física (PEDECIBA FISICA)
Degree awarding entity: Universidad de la República, Uruguay **Type of entity:** University
Date of degree: 20/02/2017

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- 1 **Title of course/seminar:** Data Analysis with Python
Goals of the course/seminar: Introduction to Data analysis with Python
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
Start-End date: 20/05/2019 - 08/07/2019
- 2 **Title of course/seminar:** Workshop in Nowcasting
Goals of the course/seminar: Nowcasting
Organising entity: Uruguayan Institute of Meteorology
Duration in hours: 18 hours
Start-End date: 11/10/2018 - 13/10/2018



- 3 Title of course/seminar:** Numerical Weather prediction laboratory
Goals of the course/seminar: Weather forecast
Organising entity: Universidad de la República **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias
Duration in hours: 40 hours
Start-End date: 11/2015 - 11/2015
- 4 Title of course/seminar:** Statistical Analysis of Climate Time Series
Goals of the course/seminar: Statistical methods for climate time series
Organising entity: Climate Risk Analysis **Type of entity:** Business
Duration in hours: 40 hours
Start-End date: 09/2014 - 09/2014
- 5 Title of course/seminar:** Weather regimes and weather types in the tropics and extra-tropics: Theory and Applications to Prediction and Weather and Climate
Goals of the course/seminar: Weather regimes
Organising entity: International Centre for Theoretical Physics, Italy **Type of entity:** R&D Centre
Duration in hours: 40 hours
Start-End date: 10/2013 - 10/2013
- 6 Title of course/seminar:** Learning about Interacting Networks in Climate: 2nd school
Goals of the course/seminar: Complex Networks in Climate
Organising entity: Utrecht Univeristy **Type of entity:** University
Duration in hours: 30 hours
Start-End date: 21/04/2013 - 30/04/2013
- 7 Title of course/seminar:** Learning about Interacting Networks in Climate: First school
Goals of the course/seminar: Complex Networks in Climate
Organising entity: Universitat de les Illes Balears, España **Type of entity:** University
Duration in hours: 18 hours
Start-End date: 10/09/2012 - 12/09/2012

Language skills

| Language | Listening skills | Reading skills | Spoken interaction | Speaking skills | Writing skills |
|----------|------------------|----------------|--------------------|-----------------|----------------|
| English | B2 | B2 | B2 | B2 | B2 |

Teaching experience



General teaching experience

- 1** **Name of the course:** Implementation and Use of an AGCM for the study of Climate Variability
University degree: Master in Geosciences
Start date: 12/08/2019 **End date:** 16/08/2019
End date: 16/08/2019
Entity: Universidad de la República, Uruguay **Type of entity:** University
- 2** **Name of the course:** Climatology
University degree: Degree in Atmospheric Sciences
Start date: 08/2018 **End date:** 12/2018
End date: 12/2018
Entity: Universidad de la República, Uruguay
- 3** **Name of the course:** The Climate System
University degree: Master in Geosciences
Start date: 03/2018 **End date:** 07/2018
End date: 07/2018
Entity: Universidad de la República, Uruguay **Type of entity:** University
Faculty, institute or centre: Sciences Faculty
- 4** **Name of the course:** Climatology
University degree: Degree in Atmospheric Sciences
Start date: 08/2017 **End date:** 12/2017
End date: 12/2017
Entity: Universidad de la República, Uruguay **Type of entity:** University
Faculty, institute or centre: Sciences Faculty
- 5** **Name of the course:** The Climate System
University degree: Master in Geosciences
Start date: 03/2017 **End date:** 07/2017
End date: 07/2017
Entity: Universidad de la República, Uruguay **Type of entity:** University
Faculty, institute or centre: Sciences Faculty
- 6** **Name of the course:** Climatology
University degree: Degree in Atmospheric Sciences
Start date: 08/2016 **End date:** 12/2016
End date: 12/2016
Entity: Universidad de la República, Uruguay **Type of entity:** University
Faculty, institute or centre: Sciences Faculty
- 7** **Name of the course:** Climatology
University degree: Degree in Atmospheric Sciences
Start date: 08/2016 **End date:** 12/2016
End date: 12/2016
Entity: Universidad de la República, Uruguay **Type of entity:** University
Faculty, institute or centre: Sciences Faculty



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:** Climate Predictability in the Atlantic Sector
Entity where project took place: Universidad Complutense de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Elsa Mohino Harris; Belén Rodríguez de Fonseca; Verónica Martín Gómez
Nº of researchers: 3
Start-End date: 23/04/2019 - 22/04/2020
- 2** **Name of the project:** Tropical ocean influence on transient trajectories over South America
Entity where project took place: Universidad de la República, Uruguay **Type of entity:** University
City of entity: Montevideo, Uruguay
Name principal investigator (PI, Co-PI....): Marcelo Barreiro; Verónica Martín Gomez
Nº of researchers: 2
Start-End date: 03/2017 - 03/2019
- 3** **Name of the project:** Learning about Interacting Networks in Climate (LINC)
Entity where project took place: Universidad Politécnica de Catalunya, Universidad de la República de Uruguay, Bar Ilan University, Universitat de les Illes Balears, Utrecht University, Potsdam-Institut for Climate Impact Research
City of entity: Montevideo, Barcelona, Palma de Mallorca, Postdam, Utrecht, Ramat Gan,
Name principal investigator (PI, Co-PI....): Cristina Masoller; Marcelo Barreiro; Emilio Hernández García; Avi Gozolchiani; Henk Dijkstra; Jürgen Kurths; Shlomo Havlin
Nº of researchers: 26
Start-End date: 2012 - 2015



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Verónica Martín-Gómez; Marcelo Barreiro. Effect of future climate change on the coupling between the tropical oceans and precipitation over Southeastern South America. *Climatic Change*. 141, pp. 315 - 329. 2017.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 2** Verónica Martín-Gómez; Emilio Hernández García; Marcelo Barreiro; Cristóbal López. Interdecadal Variability of Southeastern South America Rainfall and Moisture Sources during the Austral Summertime. *Journal of Climate*. 29 - 18, pp. 6751 - 6763. 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 3** Verónica Martín-Gómez; Marcelo Barreiro. Analysis of ocean's influence on spring time rainfall variability over southeastern South America during the 20th century. *International Journal of Climatology*. 36 - 3, pp. 1344 - 1358. 2015.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 4** Verónica Martín Gómez; Teresa Losada; Marcelo Barreiro; Belén Rodríguez Fonseca. Predictability of the Southern Hemisphere Circulation anomalies and Precipitation over Subtropical South America due to different El Niño patterns. Submitted to *International Journal of Climatology*.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 5** Verónica Martín Gómez; Marcelo Barreiro; Elsa Mohino. Southern Hemisphere Sensitivity to ENSO patterns and intensity: Impacts over Subtropical South America. Submitted to *Atmosphere*.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 6** Verónica Martín-Gómez; Marcelo Barreiro. The influence of nonlinearities and different SST spatial patterns on the summertime anomalies in subtropical South America during strong ENSO events. Submitted to *Climate Dynamics*.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes



Works submitted to national or international conferences

- 1** **Title of the work:** Análisis de la variabilidad interdecadal de las fuentes de humedad en el Sudeste de Sudamérica desde una perspectiva de redes complejas
Name of the conference: XIII Congreso Argentino de Meteorología
City of event: Rosario, Argentina
Date of event: 16/10/2018
End date: 19/10/2018
Organising entity: Centro Argentino de Meteorólogos **Type of entity:** State agency
City organizing entity: Buenos Aires, Argentina
Verónica Martín Gómez; Marcelo Barreiro.
- 2** **Title of the work:** A complex network perspective of the past and future coupling of the tropical oceans and precipitation over SESA
Name of the conference: Data Science and Environment Workshop and Summer School
Corresponding author: Yes
City of event: Brest, France
Date of event: 07/2017
End date: 07/2017
Verónica Martín Gómez; Marcelo Barreiro.
- 3** **Title of the work:** Twenty century analysis and future climate change of the tropical ocean's influence on rainfall variability over Southeastern South America from a complex network perspective
Name of the conference: CLIVAR open Science Conference: Charting the course for climate and ocean research
Corresponding author: Yes
City of event: Qingdao, China
Date of event: 09/2016
End date: 09/2016
Verónica Martín Gómez; Marcelo Barreiro.
- 4** **Title of the work:** Complex network analysis of the oceans' influence on rainfall over Southeastern South America
Name of the conference: 11th meeting of the International Conference on Southern Hemisphere Meteorology and Oceanography
Corresponding author: Yes
City of event: Santiago de Chile, Chile
Date of event: 10/2015
End date: 10/2015
Verónica Martín Gómez; Marcelo Barreiro.
- 5** **Title of the work:** Análisis de la Influencia de los océanos tropicales en la variabilidad de las precipitaciones sobre SESA
Name of the conference: Congreso Argentino de Meteorología
Corresponding author: Yes
City of event: Mar del Plata, Argentina
Date of event: 05/2015
End date: 05/2015
Verónica Martín Gómez; Marcelo Barreiro.



- 6** **Title of the work:** Analysis of oceans' influence on spring time rainfall variability over Southeastern South America during the 20th century
Name of the conference: EGU
Corresponding author: Yes
City of event: Viena, Austria
Date of event: 04/2015
End date: 04/2015
Verónica Martín Gómez; Marcelo Barreiro.
- 7** **Title of the work:** Interdecadal variability of Southeastern South America Rainfall and Moisture Sources during the austral Summertime
Name of the conference: Final Conference of the LINC project
Corresponding author: Yes
City of event: Viena, Austria
Date of event: 04/2015
End date: 04/2015
Verónica Martín Gómez; Marcelo Barreiro.
- 8** **Title of the work:** Complex network analysis of the oceans' influence on SESA precipitation variability during the 20th century
Name of the conference: European Conference on Complex Systems
Corresponding author: Yes
City of event: Lucca, Italy
Date of event: 09/2014
End date: 09/2014
Verónica Martín Gómez; Marcelo Barreiro.
- 9** **Title of the work:** Interdecadal Atmospheric Variability: the influence of the tropical oceans on austral summer rainfall over SESA
Name of the conference: 5th LINC workshop
Corresponding author: Yes
City of event: Lucca, Italy
Date of event: 09/2014
End date: 09/2014
Verónica Martín Gómez; Marcelo Barreiro.
- 10** **Title of the work:** Analysis of rainfall variability over Southeastern South America considering a complex network perspective
Name of the conference: 4th LINC (Learning about Interacting Networks in Climate) workshop
Corresponding author: Yes
City of event: Montevideo, Uruguay
Date of event: 03/2014
End date: 03/2014
Verónica Martín Gómez; Marcelo Barreiro.
- 11** **Title of the work:** Complex Network analysis of the oceans' influence on SESA rainfall variability during the 20th century
Name of the conference: WCRP Conference for Latin America and Caribbean
Corresponding author: Yes
City of event: Montevideo, Uruguay



Date of event: 03/2014

End date: 03/2014

Verónica Martín Gómez; Marcelo Barreiro.

12 Title of the work: Complex network's analysis of oceans' influence on rainfall over Southeastern South America

Name of the conference: Third LINC (Learning about Interacting Networks in Climate) workshop

Corresponding author: Yes

City of event: Postdam, Germany

Date of event: 11/2013

End date: 11/2013

Verónica Martín Gómez; Marcelo Barreiro.

13 Title of the work: Analysis of rainfall variability over Southeastern South America considering a complex network perspective

Name of the conference: AGU

Corresponding author: Yes

City of event: Cancún, Mexico

Date of event: 05/2013

End date: 05/2013

Verónica Martín Gómez; Marcelo Barreiro.

14 Title of the work: Shift and trends in Southeastern South America

Name of the conference: 2nd LINC school

Corresponding author: Yes

City of event: Utrecht, Holland

Date of event: 04/2013

End date: 04/2013

Verónica Martín Gómez; Marcelo Barreiro.

Works submitted to national or international seminars, workshops and/or courses

1 Title of the work: Analisis de la variabilidad interdecadal de las fuentes de humedad en SESA asociada a diferentes periodos de conectividad atmosférica

Name of the event: Seminar

Corresponding author: Yes

City of event: Madrid, Spain

Date of event: 06/2018

End date: 06/2018

Organising entity: Universidad Complutense de Madrid **Type of entity:** University

City organizing entity: Madrid, Spain

Verónica Martín Gómez; Marcelo Barreiro.

2 Title of the work: Una perspectiva de redes complejas para el análisis de la variabilidad interdecadal de la conectividad de los océanos tropicales y las precipitaciones en SESA

Name of the event: Jornadas por el Décimo aniversario de la Licenciatura en Ciencias de la Atmósfera

Corresponding author: Yes

City of event: Montevideo, Uruguay

Date of event: 10/2017



End date: 10/2017

Organising entity: Universidad de la República

Type of entity: University

City organizing entity: Montevideo, Uruguay

Verónica Martín Gómez; Marcelo Barreiro.

3 Title of the work: Análisis de la Influencia del océano tropical en la variabilidad de las precipitaciones en SESA desde una perspectiva de redes complejas

Name of the event: Seminar

Corresponding author: Yes

City of event: Madrid, Spain

Date of event: 02/2015

End date: 02/2015

Organising entity: Universidad Complutense de Madrid

Type of entity: University

City organizing entity: Madrid, Spain

Verónica Martín Gómez; Marcelo Barreiro.

Other dissemination activities

1 Title of the work: Predictability of Weather and Climate

Name of the event: Curso Introductorio a las Dinámicas Universitarias

Corresponding author: Yes

City of event: Montevideo, Uruguay

Date of event: 13/03/2019

Organising entity: Universidad de la República, Uruguay

Type of entity: University

City organizing entity: Montevideo, Uruguay

Verónica Martín Gómez. "Predictabilidad del Tiempo y del Clima".

2 Title of the work: Meteorological phenomena impacting Uruguay

Name of the event: Mujeres en la Ciencia

Type of event: Fairs and exhibitions

City of event: Montevideo, Uruguay

Date of event: 11/02/2019

Organising entity: Universidad de la República

Type of entity: University

City organizing entity: Montevideo, Uruguay

Verónica Martín Gómez; Camilla De Melo; Matilde Ungerovich. "Fenómenos meteorológico en Uruguay".

3 Title of the work: Scientific dissemination on meteorological phenomena in Uruguay

Name of the event: Latitud Ciencias

Type of event: Fairs and exhibitions

City of event: Montevideo, Uruguay

Date of event: 09/2018

Organising entity: Universidad de la República, Uruguay

Type of entity: University

City organizing entity: Montevideo, Uruguay

Verónica Martín Gómez; Madeleine Renom; Marcelo Barreiro; Romina Trichin; Matilde Ungerovich; Santiago De Mello; Gastón Manta. "Fenómenos meteorológicos en Uruguay".



- 4** **Title of the work:** Scientific dissemination on severe weather
Name of the event: Jornada de Puertas abiertas de la Facultad de Ciencias
Type of event: Fairs and exhibitions
Corresponding author: Yes
City of event: Montevideo, Uruguay
Date of event: 05/2018
Organising entity: Universidad de la República **Type of entity:** University
City organizing entity: Montevideo, Uruguay
Verónica Martín Gómez; Romina Trinchin; Gaston Manta; Matilde Ungerovich; Santiago De Melo.
- 5** **Title of the work:** Scientific dissemination about weather and climate
Name of the event: Jornada de Puertas abiertas de la Facultad de Ciencias
Type of event: Fairs and exhibitions
Corresponding author: Yes
City of event: Montevideo, Uruguay
Date of event: 05/2017
Organising entity: Universidad de la República **Type of entity:** University
City organizing entity: Montevideo, Uruguay
Verónica Martín Gómez; Santiago De Melo; Matilde Ungerovich; Gaston Manta; Romina Trinchin.
- 6** **Title of the work:** The Climate System
Name of the event: Programa de visitas de la Facultad de Ciencias
Type of event: Oral presentation
Corresponding author: Yes
City of event: Montevideo, Uruguay
Date of event: 09/2016
Organising entity: Universidad de la República **Type of entity:** University
City organizing entity: Montevideo, Uruguay
Verónica Martín Gómez.
- 7** **Title of the work:** Scientific dissemination on Weather and Climate
Name of the event: Jornada de Puertas abiertas de la Facultad de Ciencias
Type of event: Fairs and exhibitions
City of event: Montevideo, Uruguay
Date of event: 05/2016
Organising entity: Universidad de la República **Type of entity:** University
City organizing entity: Montevideo, Uruguay
Verónica Martín Gómez.



R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Member of committee assessing degree thesis
Primary (UNESCO code): 220000 - Physics; 250000 - Earth and space sciences
Affiliation entity: Universidad de la República **Type of entity:** University
City affiliation entity: Montevideo, Uruguay
Start-End date: 14/08/2018 - 14/08/2018
- 2** **Committee title:** Member of committee assessing degree thesis
Primary (UNESCO code): 220000 - Physics; 250000 - Earth and space sciences
Affiliation entity: Universidad de la República **Type of entity:** University
City affiliation entity: Montevideo, Uruguay
Start-End date: 25/05/2018 - 25/05/2018

Organization of R&D activities

- 1** **Title of the activity:** Seminars in Meteorology
Type of activity: Organization and coordination of the seminars in Meteorology **Geographical area:** National
Convening entity: Universidad Complutense de Madrid **Type of entity:** University
City convening entity: Madrid, Community of Madrid, Spain
Start-End date: 01/10/2019 - 30/04/2020 **Duration:** 8 months
- 2** **Title of the activity:** Science Week 2019
Type of activity: Taller de Atmósfera y Océano: La Meteorología en nuestros días, el clima en nuestras manos **Geographical area:** National
Convening entity: Universidad Complutense de Madrid **Type of entity:** University
City convening entity: Madrid, Community of Madrid, Spain
Start-End date: 04/11/2019 - 22/11/2019 **Duration:** 15 days



Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Universidad Complutense de Madrid
Faculty, institute or centre: Physics School
City of entity: Madrid, Spain
Start-End date: 01/06/2018 - 05/07/2018
Goals of the stay: Post-doctoral
Provable tasks: Research
Type of entity: University
Duration: 1 month - 7 days
- 2** **Entity:** Universidad de las Islas Baleares
Faculty, institute or centre: Institute for Cross-Disciplinary Physics and Complex Systems
City of entity: Palma de Mallorca, Spain
Start-End date: 01/2015 - 03/2015
Goals of the stay: Doctorate
Provable tasks: Research
Type of entity: University
Duration: 3 months
- 3** **Entity:** Universidad de las Islas Baleares
Faculty, institute or centre: Institute for Cross-Disciplinary Physics and Complex Systems
City of entity: Palma de Mallorca, Spain
Start-End date: 01/2014 - 03/2014
Goals of the stay: Doctorate
Provable tasks: Research
Type of entity: University
Duration: 3 months

Obtained grants and scholarships

- 1** **Name of the grant:** Uruguay - retiene
Aims: Post-doctoral
Awarding entity: PEDECIBA (Programa de desarrollo de Ciencias Básicas)
Conferral date: 03/2017
End date: 15/03/2019
Entity where activity was carried out: Universidad de la República, Uruguay
Type of entity: University
Duration: 2 years
- 2** **Name of the grant:** Beca CAP (Comisión Académica de Posgrado)
Aims: Pre-doctoral
Awarding entity: Comisión Académica de Posgrado, Uruguay
Conferral date: 04/2016
End date: 03/2017
Entity where activity was carried out: Universidad de la República
Faculty, institute or centre: Facultad de Ciencias
Type of entity: Public Research Body
Duration: 11 months
- 3** **Name of the grant:** Marie Stolonowska Curie
Aims: Pre-doctoral
Awarding entity: Universidad de la República, Uruguay



Conferral date: 10/2012

Duration: 3 years

End date: 10/2015

Entity where activity was carried out: Universidad de la República, Uruguay

Faculty, institute or centre: Departamento de Ciencias de la Atmósfera