Félix **García-Pereira**

Profile

Passionate **climatologist** with formation in meteorology and climatology sciences and expertise in climate modeling and dynamics. My main field of research is **soil climatology, with a special focus on the representation of subsurface thermodynamics and hydrology in climate models**, and the understanding of these processes from observational data. Proficient in Shell, Fortran, and Matlab programming, I have a wide experience in running (MPI-ESM model) and analysing climate simulations.

Contact details

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Personal information

Date of birth: **1996-09-16**
Citizenship: **Spanish**
Languages: **Spanish** (native), **English** (C1), **French** (B1)

Skills

- Data science, big data
- Climate modeling (MPI-ESM)
- Matlab, Fortran, Shell, Python
- MS Word, Excel, PowerPoint

Experience

Superior Technician FC2 in PTI-Clima Initiative at *Instituto de Geociencias (IGEO), CSIC-UCM, Madrid, Spain.* **2024/10-present**

Short research stay at *Max-Planck-Institute for Meteorology (MPI-M), Hamburg, Germany.* **2023/09-2023/12**

Ph.D. Candidate in Physics at *Universidad Complutense de Madrid (UCM), Madrid, Spain.* **2020/10-2024/09**
◇ Contract PRE2019-090694 of the Spanish Ministry of Science (MICINN).

Research Assistant at *Guadarrama Monitoring Network (GuMNet), Universidad Complutense de Madrid - Campus de Excelencia Internacional (UCM-CEI), Madrid, Spain.* **2019/06-2020/09**

Education

Ph.D. in Physics. (*Cum Laude*) Physics Faculty. *Complutense University of Madrid (UCM), Madrid, Spain.* **2020/10-2025/11**
◇ Thesis title: *Climate change sensitivity to the thermodynamics and the hydrology of the subsurface.*

Master in Meteorology and Geophysics. Physics Faculty. *Complutense University of Madrid (UCM), Madrid, Spain.* **2018/09-2019/09**
◇ Thesis title: *Analysis of turbulent scales in two nearby locations of a mountainous area.*

Bachelor of Science in Aerospace Engineering. School of Technical Aeronautical Engineering. *Technical University of Madrid (UPM), Madrid, Spain.* **2014/09-2018/06**
◇ Thesis title: *Experimental approach to deflagration to detonation transition (DDT) in hydrogen-air mixtures in a channel with obstacles.*

Publications

Cuesta-Valero, F. J., et al. (2025), **Sci. Adv.**, DOI: 10.1126/sciadv.adw9958

García-Pereira, F., et al. (2025), **TC**, DOI: 10.5194/tc-19-5959-2025.

MITECO (2025), **CLIVAR-Spain Report 2024**, ISBN: 978-84-18778-49-0.

García-Pereira, F., et al. (2025), **Publicaciones AEC (Serie A)**, ISBN: 978-84-125772-3-5.

González-Rouco, J. F., et al. (2024), **Tirant Humanidades**, ISBN: 978-8411837279.

Steinert N. J., et al. (2024), **GRL**, DOI: 10.1029/2023GL107613.

García-Pereira, F., et al. (2024), **ESD**, DOI: 10.5194/esd-15-547-2024.

García-Pereira, F., et al. (2024), **SOIL**, DOI: 10.5194/soil-10-1-2024.

Steinert N. J., et al. (2024), **ERL**, DOI: 10.1088/1748-9326/ad10d7.

Roldán-Gómez, P. J., et al. (2023), **CP**, DOI: 10.5194/cp-19-2361-2023.

Melo-Aguilar, C., et al. (2022), **IJC**, DOI: 10.1002/joc.7662.

Steinert N. J., et al. (2021), **GRL**, DOI: 10.1029/2021GL094273.

González-Rouco, J. F., et al. (2021), **Tirant Humanidades**, ISBN: 978-8418534195.

González-Rouco, J. F., et al. (2021), **JHM**, DOI: 10.1175/JHM-D-21-0024.1.

Vegas-Cañas C., et al. (2020), **Atmos**, DOI: 10.3390/atmos11090985.