

Part A. PERSONAL INFORMATION

CV date 09/05/2025

First and Family name	Oliver Gutiérrez Hernández		
ID number	53366292J	Age	42
Researcher codes	Open Researcher and Contributor ID (ORCID)	0000-0003-2580-5465	
	SCOPUS Author ID (*)	57201520119	
	WoS Researcher ID (*)	W-8119-2019	

(*) Optional

(**) Mandatory

A.1. Current position

University	University of Malaga (UMA)		
Department	Geography		
Address and Country	29010 Teatinos – Malaga - Spain		
Phone number	951953293	E-mail	olivergh@uma.es
Current position	Associate Professor	From	2022
Keywords	Biogeography; Remote sensing; Niche modelling; <i>Abies pinsapo</i>		

A.2. Education

PhD, Licensed, Graduate	University
PhD in Geography and Environment	University of Seville
Master's Degree in Geographic Information System	University of Girona
Master's Degree in Global Change	University of Cordoba
Degree in Geography	University of Málaga

CV SUMMARY (max. 3500 characters, including spaces)

Oliver Gutiérrez Hernández is a mid-career academic focusing on geography, environmental monitoring and modelling, species distribution models, and remote sensing of vegetation. He has a strong background in technical geography (GIS, remote sensing), experimental and observational ecology (including experimental design and statistical data analysis), and extensive field experience with soil and plant measurement instruments. He developed a solid understanding of ecological and biogeographical processes and models through field observation, data collection, and analysis. His work has progressively shifted towards applied geography and biogeography, integrating geospatial analysis and environmental modelling to address conservation and sustainability challenges.

He began his professional career in 2006 as a geographer (technical consultant), contributing to more than 30 environmental consultancy projects until 2011. In 2012, he secured a competitive JAE–Predoc research grant from the Spanish National Research Council (CSIC), conducting research at IRNAS–CSIC in Seville. He has held teaching positions as an adjunct professor at the University of Málaga (2017–21; since 2022–23), assistant professor at the Autonomous University of Madrid (2021–22), and the University of Granada (2022). He is accredited by the Spanish National Agency for Quality Assessment and Accreditation (ANECA) as a Senior Lecturer (Profesor Titular de Universidad).

He has published over 70 scientific works, including articles, book chapters, and conference papers, with more than 60 as first or corresponding author. His early research focused on Mediterranean forests, ecological niche modelling, and biological invasions, and earned him two Young Researcher Prizes (2017, 2018) from the Spanish Geographical Association. These awards recognised his studies on the impacts of climate change on *Abies pinsapo* forests and the modelling of biological invasions, particularly those involving *Xylella fastidiosa*. In 2022, he received the AGE–SIB International Award (granted by the Spanish Geographical Association and the Ibero-American Biogeography Society) for his contribution to understanding the geographical distribution of SARS-CoV-2. He has participated in several competitively funded research projects addressing ecological resilience, climate change

impacts, and biogeographic reconstruction, supported by the Spanish Ministry of Science and Innovation (MICINN), the National Parks Autonomous Agency, and other institutions.

Over time, his career has evolved from an initial focus on ecology and biogeography—especially Mediterranean ecosystems, conservation challenges, ecological niche modelling, and biological invasions—towards more quantitative and methodological approaches. He has developed expertise in spatiotemporal data analysis, statistical inference, and multiple testing correction applied to environmental monitoring and modelling. His current work integrates methodological innovation with his long-standing interest in the ecology and biogeography of *Abies pinsapo* and related fir forests, while addressing challenges in error control and contributing to efforts to improve the reliability and robustness of statistical inference in spatial environmental data. In addition to research and teaching, he actively contributes to the academic community as a peer reviewer for numerous high-impact journals (with over 80 verified reviews indexed in Web of Science) and as a scientific evaluator for the Spanish State Research Agency (AEI).

RELEVANT MERITS

C.1. Selected Publications *(Publications indexed in Web of Science and/or Scopus and listed chronologically)*

1. **Gutiérrez-Hernández, O. & García, L.** 2025. The ghost of selective inference in spatiotemporal trend analysis. *Science of the Total Environment* 958, 177832. <https://doi.org/10.1016/j.scitotenv.2024.177832>
 - Journal ranked in WoS – JCR 2024 – SCIE (Environmental Sciences, Q1), Impact Factor: 8.2
 - Journal ranked in Scopus – SJR 2024 – (Environmental Engineering, Q1), SJR: 1.76
2. **Gutiérrez-Hernández, O. & García, L.** 2025. Uncovering True Significant Trends in Global Greening. *Remote Sensing Applications: Society and Environment*, 101377. <https://doi.org/10.1016/j.rsase.2024.101377>
 - Journal ranked in WoS – JCR 2024 – SCIE (Remote Sensing, Q2), Impact Factor: 3.8
 - Journal ranked in Scopus – SJR 2024 – (Computers in Earth Sciences, Q1), SJR: 0.892
3. **Gutiérrez-Hernández, O. & García, L.** 2025. False Discovery Rate Estimation and Control in Remote Sensing: Reliable Statistical Significance in Spatially Dependent Gridded Data. *Remote Sensing Letters* 16(5), 537–548. <https://doi.org/10.1080/2150704X.2025.2478664>
 - Journal ranked in WoS – JCR 2024 – SCIE (Remote Sensing, Q3), Impact Factor: 1.4
 - Journal ranked in Scopus – SJR 2024 – (Earth and Planetary Sciences, Q3), SJR: 0.369
4. **Gutiérrez-Hernández, O. & García, L.** 2024. Robust Trend Analysis in Environmental Remote Sensing: A Case Study of Cork Oak Forest Decline. *Remote Sensing* 16(20), 3886. <https://doi.org/10.3390/rs16203886>
 - Journal ranked in WoS – JCR 2024 – SCIE (Geosciences, Q1), Impact Factor: 4.2
 - Journal ranked in Scopus – SJR 2024 – (Earth and Planetary Sciences, Q1), SJR: 1.091
5. **Gutiérrez-Hernández, O. & García, L.** 2024. Trends in Vegetation Seasonality in the Iberian Peninsula: Spatiotemporal Analysis Using AVHRR-NDVI Data (1982–2023). *Sustainability* 16(21), 9389. <https://doi.org/10.3390/su16219389>
 - Journal ranked in WoS – JCR 2024 – SCIE (Environmental Sciences, Q2), Impact Factor: 3.3
 - Journal ranked in Scopus – SJR 2024 – (Geography, Planning, Development, Q1), SJR: 0.664
6. **Gutiérrez-Hernández, O. & Rubio Díaz, A.** 2023. Jellyfish distribution and abundance on the southern coast of the Iberian Peninsula. In: *Sustainable Development Goals in Europe. Key Challenges in Geography*, 281–299. Springer. https://doi.org/10.1007/978-3-031-21614-5_14
 - Book chapter indexed in Web of Science – Book Citation Index (BKCI)
 - Publisher ranked in SPI 2018 – International Publishers (Q1, Geography: 1st position; ICEE: 72)

7. **Gutiérrez-Hernández, O.** 2022. Recent NDVI trends in Andalusia (southern Spain): the limits of vegetation greening. *Boletín de la Asociación De Geógrafos Españoles* (94). <https://doi.org/10.1016/j.envres.2021.110818>
 - Journal ranked in WoS – JCR 2022 – SSCI (Geography, Q3), Impact Factor: 1.0
 - Journal ranked in Scopus – SJR 2022 – (Geography, Planning and Development, Q2), SJR: 0.364
8. **Gutiérrez-Hernández, O. & García, L. V.** 2021. On the usefulness of the bioclimatic correlative models of SARS-CoV-2. *Environmental Research* 195, 110818. <https://doi.org/10.1016/j.envres.2021.110818>
 - Journal ranked in WoS – JCR 2021 – SCIE (Environmental Sciences, Q1), Impact Factor: 6.498
 - Journal ranked in Scopus – SJR 2021 – (Environmental Science (miscellaneous), Q1), SJR: 1.632
9. **Gutiérrez-Hernández, O. & García, L. V.** 2021. Relationship between precipitation and species distribution. In: Precipitation. *Earth Surface Responses and Processes*. Elsevier. ISBN: [9780128226995](https://doi.org/10.1016/j.earsscr.2021.100818)
 - Book chapter indexed in Web of Science – Book Citation Index (BKCI)
 - Publisher ranked in SPI 2018 – International Publishers (Q1, Geography: 2nd position; ICEE: 55)
10. **Gutiérrez-Hernández, O. & García, L. V.** (2021). Multiplicity Eludes Peer Review. *International Journal of Environmental Research and Public Health*, 18(17), 9304. <https://doi.org/10.3390/ijerph18179304>
 - Journal ranked in WoS – JCR 2021 – SCIE (Public, Environmental & Occupational Health, Q1), Impact Factor: 4.614
 - Journal ranked in Scopus – SJR 2021 – (Public Health, Environmental and Occupational Health, Q2), SJR: 0.814
11. **Gutiérrez-Hernández, O. & García, L. V.** 2021. Increased risk of COVID-19 from walking dogs? Most likely, a spurious finding. *Environmental Research* 201, 111600. <https://doi.org/10.1016/j.envres.2021.111600>
 - Journal ranked in WoS – JCR 2021 – SCIE (Environmental Sciences, Q1), Impact Factor: 6.498
 - Journal ranked in Scopus – SJR 2021 – (Environmental Science (miscellaneous), Q1), SJR: 1.632
12. **Gutiérrez-Hernández, O. & García, L. V.** 2020. Do weather and climate influence the distribution of the novel coronavirus (SARS CoV-2)? A review from a biogeographical perspective. *Investigaciones Geográficas*, 73, 31. <https://doi.org/10.14198/INGEO2020.GHVG>
 - Journal ranked in Scopus – SJR 2020 – (Geography, Planning and Development, Q3), SJR: 0.290
 - Journal ranked in FECYT Seal of Quality 2020, Geography (Q1, 4th position): 64.61
13. **Gutiérrez Hernández, O. & García, L. V.** (2019) The geographical dimension of biological invasions in the Anthropocene: the case of *Xylella fastidiosa*. *Boletín de la Asociación De Geógrafos Españoles*, (80). <https://doi.org/10.21138/bage.2771>
 - Journal ranked in WoS – JCR 2019 – SSCI (Geography, Q4), Impact Factor: 0.684
 - Journal ranked in Scopus – SJR 2019 – (Geography, Planning and Development, Q3), SJR: 0.267
14. **Gutiérrez Hernández, O.** 2018. Impact of global warming on the distribution and survival of the Spanish fir (Serrania de Ronda, Southern Spain). *Boletín de la Asociación de Geógrafos Españoles* 76, 504–549. <https://doi.org/10.21138/bage.2532>
 - Journal ranked in WoS – JCR 2018 – SSCI (Geography, Q4), Impact Factor: 0.684
 - Journal ranked in Scopus – SJR 2018 – (Geography, Planning and Development, Q3), SJR: 0.257
15. **Gutiérrez Hernández, O. & Cámara Artigas, R.; Senciales González, J.M.; García, L. V.** 2018. Predictive modelling in Biogeography: applying ecological niche modelling in Physical Geography. *Boletín de la Asociación de Geógrafos Españoles* 78, 88–126. <https://doi.org/10.21138/bage.2395>
 - Journal ranked in WoS – JCR 2018 – SSCI (Geography, Q4), Impact Factor: 0.684
 - Journal ranked in Scopus – SJR 2018 – (Geography, Planning and Development, Q3), SJR: 0.257

C.2. Research Projects *(Recent and/or ongoing competitively funded research projects listed chronologically)*

Research project nº 1:

Name of the project: *Abies pinsapo*: refuge beyond the western Baetic system? Understanding the past to ensure the future of Spanish fir forests.

Funding entity: Spanish Ministry of Science and Innovation (MICINN).

Entity where the project took place: University of Granada

Name of principal investigator: José Gómez Zotano & José Antonio Olmedo Cobo

Contribution: Researcher.

Start date & End date: 2023-2027

Total amount: 175.000 €

Research project nº 2:

Name of the project: Interglacial refugia and orophilous forests in Sierra de las Nieves National Park: from sentinels of local extinction to biodiversity reservoirs in the face of global change.

Funding entity: National Parks Autonomous Agency (OAPN). Ministry for the Ecological Transition and the Demographic Challenge (MITECO).

Entity where the project took place: University of Granada

Name of principal investigator: José Gómez Zotano

Contribution: Researcher.

Start date & End date: 2023-2026

Total amount: 96.369,80 €

Research project nº 3:

Name of the project: Regressive demographic dynamics and the impact of environmental and sustainable development policies in the natural parks of Sierra Morena: interrelations, challenges, territorial implications and proposals for action.

Entity where the project took place: University of Córdoba

Name of principal investigator: Alfonso Mulero Mendigorrri

Contribution: Technician / Researcher.

Start date & End date: 2020-2022

Research project nº 4:

Name of the project: Palaeobiogeographical reconstruction of *Abies pinsapo* Boiss. based on pedoanthracological analysis: new insights for the management of the species and its habitat.

Funding entity: Spanish Ministry of Science and Innovation (MICINN).

Entity where the project took place: University of Granada

Name of principal investigator: José Gómez Zotano

Contribution: Technician / Researcher.

Start date & End date: 2018-2020

Total amount: 48.000 €

Research project nº 5:

Name of the project: Interactive effects of climate change and exotic pathogens on biotic communities of mixed Mediterranean forests (INTERCAPA)

Funding entity: Spanish Ministry of Science and Innovation (MICINN).

Entity where the project took place: Institute of Natural Resources and Agrobiology of Seville - State Agency Spanish National Research Council (IRNAS-CSIC)

Name of principal investigator: Lorena Gómez Aparicio

Contribution: Researcher.

Start date & End date: 2015-2018

Total amount: 179.000 €