

CURRICULUM VITAE

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| CV date | 25/09/2025 |
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Part A. PERSONAL INFORMATION

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|--|-------------------------|---|------------|
| First name | Núria | | |
| Family name | Galiana Ibáñez | | |
| Gender | Female | Birth date | 17/11/1988 |
| e-mail | galiana.nuria@gmail.com | https://nuriagaliana.wixsite.com/research | |
| Open Researcher and Contributor ID (ORCID) (*) | 0000-0001-7720-0615 | | |

A.1. Current position

| | | | |
|-------------------|---|-------------------------------------|--|
| Position | Ramón y Cajal Fellow | | |
| Initial date | 01/01/2025 | | |
| Institution | Consejo Superior de Investigaciones Científicas | | |
| Department/Center | Biogeography and Global Change | National Museum of Natural Sciences | |
| Country | Spain | Teleph. number | |
| Key words | Ecological networks, species interactions, biodiversity, species distribution, biogeography, community ecology, theoretical ecology, spatial scale, network biogeography. | | |

A.2. Previous positions (research activity interruptions)

| Period | Position/Institution/Country/Interruption cause |
|--------------------------------|---|
| August 2024 – December 2024 | Postdoctoral Fellow / National Museum of Natural Sciences / Consejo Superior de Investigaciones Científicas / Spain / Obtention of Ramón y Cajal fellowship |
| March 2022 – July 2024 | Marie Curie Postdoctoral Fellow / National Museum of Natural Sciences / Consejo Superior de Investigaciones Científicas / Spain / End of scholarship |
| September 2023 – February 2024 | Maternity leave |
| November 2020 – December 2021 | ERC Postdoctoral Fellow / Institut de Ciència i Tecnologia Ambientals (ICTA), Universitat Autònoma de Barcelona / Spain / Fixed-term contract |
| December 2018 – October 2020 | ERC Postdoctoral Fellow / Centre for Biodiversity Theory and Modelling / France / Fixed-term contract |
| March 2015 – October 2018 | PhD candidate / Theoretical and Experimental Ecology Station (SETE), CNRS and Université Toulouse III - Paul Sabatier / France / End of scholarship |
| January 2015 – March 2015 | Research assistant / Theoretical and Experimental Ecology Station (SETE), CNRS / France / Start of PhD |
| June 2014 – October 2014 | Research intern / University of Rimouski / Quebec, Canada / 5 months scientific internship |
| September 2012 – May 2014 | Research Assistant / Centre for Ecological Research and Forestry Applications (CREAF) / Spain / Fixed-term contract |
| March 2011 – July 2011 | Field assistant / National Institute of Biodiversity of Costa Rica (INBio) / Costa Rica / 5 months scientific internship |
| September 2010 – March 2011 | Research Assistant / Biology and Ecology Department, Universitat Autònoma de Barcelona / Spain / Fixed-term contract |



A.3. Education

| PhD, Licensed, Graduate | University/Country | Year |
|--|---|------|
| PhD in Ecology | Université Toulouse III - Paul Sabatier and Theoretical and Experimental Ecology Station, (CNRS) / France | 2018 |
| MSc. in Biodiversity and Terrestrial Ecology | Center for Ecological Research and Forestry Applications (CREAF), Universitat Autònoma de Barcelona / Spain | 2012 |
| BSc. in Environmental Science | Universitat Autònoma de Barcelona / Spain | 2011 |

Part B. CV SUMMARY

My research focuses on the integration of spatial and biogeographical processes into species interaction network research to better understand large-scale biodiversity patterns. The main objective of my research is twofold: to understand how ecological communities are organised across the globe and to disentangle the role of biotic interactions in determining large-scale biodiversity patterns. In particular, my work has provided paramount knowledge about the mechanisms behind the geographical variation of complex ecological networks, the importance of the spatial scale for understanding network structure, or the influence of biotic interactions in determining species distributions. These cutting-edge findings have contributed to bridge the traditional gap between biogeographical studies and network ecology, setting the cornerstone of the emerging field of Network Biogeography.

My research approach merges the development of computational and mathematical theoretical models for ecological systems with the analysis of large empirical datasets using sophisticated analytical tools. This theoretical-empirical approach is key to be able to develop general knowledge, infer causality from the patterns observed, and generate predictions. Through my training and years of research, I acquired a multidisciplinary background encompassing aspects of complex networks and biotic interactions, ecological theory and community dynamics, and more recently, species distribution modelling and Geographic Information Systems. This integrated set of scientific-technical skills allow me to tackle challenging problems at the interface between ecology and biogeography with a novel perspective.

This strong interdisciplinarity (theoretical and empirical ecology, computer science, mathematics and biogeography) is reliant on my extensive network of scientific collaborators. I have established several collaborations with leading research teams from many institutions around the world such as Sherbrook University, Quebec (theoretical and analytical aspects of ecological networks), the Alpine Ecology Laboratory at the Grenoble Alpes University, France (biogeographical terrestrial networks), Swansea University, United Kingdom (computational ecology), and the Theoretical and Experimental Ecology Station of the CNRS, France (theoretical ecology and community dynamics). In collaboration with scientists at these (and other) institutions I have led several research projects that have resulted in cutting-edge publications in high-impact scientific journals (as evidenced in Part C.1).

My research has resulted in the publication of over 25 scientific articles in peer-reviewed journals and book chapters. These publications have collectively attracted 1006 citations (Google Scholar, 25th September 2025), with i10- and h- indices of 17 and 16, respectively. I have been part of different European Research Council projects, and I have been awarded a Marie Skłodowska-Curie Individual Fellowship and a Leonardo-FBBVA fellowship to develop my own research. I have also received the L'Oréal-Unesco "For Women in Science" award and I am currently a Ramón y Cajal researcher in the Spanish National Research Council (CSIC).

I have contributed to the development of young researchers by supervising a Master student during my first postdoctoral position, which resulted in a high-impact publication. I am currently supervising two JAE-intro students and co-supervising 2 PhD students. I have also participated in the European Researchers' night at the National Museum of Natural Sciences in Madrid and participated in multiple dissemination activities for school children in France.

I am Subject Editor for Ecography and I have been part of the editorial board of a special issue in Ecography on Predictive Biogeography. I regularly serve as a reviewer for high-impact international scientific journals such as Nature Ecology and Evolution, American Naturalist, Ecography, Global Ecology and Biogeography, Proceedings of the Royal Society B, Oikos, Oecology and Frontiers in Ecology and Evolution. I have acted as reviewer of highly competitive research proposals for the National Science Foundation.

Part C. RELEVANT MERITS

C.1. Publications (10 most relevant).

AC: corresponding author. ($n^{\circ}x / n^{\circ}y$): position / total authors.

1. **Scientific paper.** Galiana, N (AC), Arnoldi, JF, Mestre, F, Rozenfeld, A and Araújo, MB (2024) Power laws in species' biotic interaction networks can be inferred from co-occurrence data. *Nature Ecology and Evolution*, 8 (2), 209-217, [doi:10.1038/s41559-023-02254-y](https://doi.org/10.1038/s41559-023-02254-y) (1/5).
2. **Scientific paper.** Zelnik, Y*, Galiana, N*, Barbier, M, Loreau, M, Galbraith, ED and Arnoldi, JF (2024) How collectively integrated are ecological communities? *Ecology Letters*, 27, e14358. [doi:10.1111/ele.14358](https://doi.org/10.1111/ele.14358) (*joint first authorship; 2*/6)
3. **Scientific paper.** Galiana, N (AC), Lurgi, M, Montoya, JM, Araújo, MB, & Galbraith, ED (2023). Climate or diet? The importance of biotic interactions in determining species range size. *Global Ecology and Biogeography*, 32, 1178–1188. [doi:10.1111/geb.13686](https://doi.org/10.1111/geb.13686) (1/5).
4. **Scientific paper.** Galiana, N (AC), Lurgi, M, Bastazini, VAG. *et al.* Ecological network complexity scales with area. *Nature Ecology and Evolution* 6, 307–314 (2022). [doi:10.1038/s41559-021-01644-4](https://doi.org/10.1038/s41559-021-01644-4) (1/29).
5. **Scientific paper.** Galiana, N (AC), Barros, C, Braga, J, Ficetola, GF, Maiorano, L, Thuiller, W, Montoya, JM and Lurgi, M (2021), The spatial scaling of food web structure across European biogeographical regions. *Ecography*, 44: 653-664. [doi:10.1111/ecog.05229](https://doi.org/10.1111/ecog.05229) (1/8).
6. **Scientific paper.** Galiana, N (AC), Arnoldi, JF, Barbier, M, Acloque, A, de Mazancourt, C and Loreau, M (2021), Can biomass distribution across trophic levels predict trophic cascades?. *Ecology Letters*, 24: 464-476. [doi:10.1111/ele.13658](https://doi.org/10.1111/ele.13658) (1/6).
7. **Scientific paper.** Albouy, C (AC), Archambault, P, Appeltans, W,...Galiana, N, *et al.*, Gravel, D. The marine fish food web is globally connected. *Nature Ecology and Evolution* 3, 1153–1161 (2019). [doi:10.1038/s41559-019-0950-y](https://doi.org/10.1038/s41559-019-0950-y) (9/15).
8. **Scientific paper.** Galiana, N, Hawkins, BA and Montoya, JM (AC) (2019), The geographical variation of network structure is scale dependent: understanding the biotic specialization of host–parasitoid networks. *Ecography*, 42: 1175-1187. [doi:10.1111/ecog.03684](https://doi.org/10.1111/ecog.03684) (1/3)
9. **Scientific paper.** Galiana, N, Lurgi, M, Claramunt-López, B *et al.*, Montoya, JM (AC) The spatial scaling of species interaction networks. *Nature Ecology and Evolution* 2, 782–790 (2018). [doi:10.1038/s41559-018-0517-3](https://doi.org/10.1038/s41559-018-0517-3) (1/8)
10. **Scientific paper.** Galiana, N, Lurgi, M, Montoya, JM and López, BC (AC) (2014), Invasions cause biodiversity loss and community simplification in vertebrate food webs. *Oikos*, 123: 721-728. [doi:10.1111/j.1600-0706.2013.00859.x](https://doi.org/10.1111/j.1600-0706.2013.00859.x) (1/4)

C.2. Congress (10 most relevant)

1. Galiana, N, **International Biogeography Society 11th Biennial Conference**, Prague, January 2024. Symposium 'Network Biogeography: The Present and Future of Terrestrial Food Webs.' Oral presentation: Climate or diet? The importance of biotic interactions in determining species range size. **Symposium organizer and speaker.**
2. Galiana, N, **SFE2-GfÖ-EEF joint meeting: International conference on Ecological Sciences**, Metz (France), November 2022. Oral presentation: The simplification of ecological communities: effects of habitat loss on network structure. **Symposium invited speaker.**
3. Galiana, N, **International Biogeography Society Funk Lecture Series on Biogeography**, October 2022. Oral presentation: Macroecological Networks: integrating biogeography, spatial processes and species interaction networks. **Invited speaker.**
4. Galiana, N, **Swiss Federal Institute of Aquatic Science and Technology' Seminar Series**. Zurich, April 2022. Oral presentation: Macroecological Networks: integrating biogeography, spatial processes and species interaction networks. **Invited speaker.**
5. Galiana, N, Lurgi, M, Bastazini, VAG *et al.* **ECONET 2021: V Symposium on ecological networks**. Mallorca, Spain, November 2021. **Oral presentation:** The spatial scaling of ecological networks across the globe.
6. Galiana, N, Arnoldi, JF, Barbier, M, Acloque, A, de Mazancourt, C and Loreau, M **Ecological Society of America Annual meeting**, Virtual conference, August 2020. **Oral presentation:** Can biomass distributions across trophic levels predict trophic cascades?
7. Galiana, N, Hawkins, BA and Montoya, JM **British Ecological Society Annual meeting joint with GfÖ, NecoV and EEF: Ecology across borders**, Ghent, December 2017. **Poster presentation:** The geographical variability of network structure is scale dependent.



8. Galiana, N, Hawkins, BA and Montoya, JM **SFE French Ecological Society International meeting**, Marseille, October 2016. **Oral presentation**: The geographical variability of network structure is scale dependent.
9. Galiana, N, Lurgi, M, Claramunt-López, B *et al.* **British Ecological Society Annual meeting**, Edinburgh, December 2015. **Oral presentation**: The spatial scaling of food web structure.
10. Galiana, N and Montoya, JM, **11th INTECOL Congress, Ecology: Into the next 100 years jointly with BES Annual Meeting**, London, August 2013. **Oral presentation**: Integrating Biogeography and food web research.

C.3. Research projects

1. **Proyectos de Generación de Conocimiento 2024 (Agencia Estatal de Investigación)**. Project: La red de la vida de la Península Ibérica (PID2024-160162NA-I00) (162.500€). **Principal investigator**.
2. **sDIV projects – German Centre for Integrative Biodiversity Research (iDiv)**. Project: The future of ecological networks under extreme climate change (30.000€). **Principal investigator**.
3. **Beca Leonardo a Investigadores y Creadores Culturales 2024 – Fundación BBVA**. Project: Redes ecológicas para la conservación (40.000€). **Principal investigator**.
4. **L'Oréal-Unesco "For Women in Science" 2022**. Project: Global projection of ecological networks in a changing climate (15.000€). **Principal investigator**.
5. **Marie Skłodowska-Curie Individual Fellowship**. BIOFOODWEB (No 101025471). Integrating biogeography and food web ecology to understand the influence of species diet breadth on their range size (160.932€). Starting date: 01/03/2022; end date: 01/07/2024 (including 4 months of extension due to maternity leave). **Principal investigator**.
6. **ERC Consolidator Grant BIGSEA**. PI: Dr. Eric Galbraith. Funding: European Research Council under the European Union's Horizon 2020 research and innovation programme (682602). Starting date: 01/11/2020; end date: 31/12/2021. **Postdoctoral fellow** in charge of modelling ecological communities at large spatial scales.
7. **ERC Advanced Grant BIOTASES**. PI: Dr. Michel Loreau. Funding: European Research Council under the European Union's Horizon 2020 research and innovation program (666971). Starting date: 01/12/2018; end date: 31/10/2020. **Postdoctoral Fellow** in charge of linking theory and data.
8. **French Laboratory of Excellence Project 'TULIP'** (ANR-10-LABX-41; ANR-11-IDEX-002-02). Starting date: 01/01/2015; end date: 01/03/2015. PI: Dr. José M. Montoya. Development of bioinformatic techniques for network analyses, data management and statistical tools.
9. **Spanish woodlands and global change: threats and opportunities (MONTES)**. CONSOLIDER project. CSD2008-00040. MICINN. PI: Dr. Javier Retana (CREAF). Starting date: 01/09/2012; end date: 30/05/2014. Research assistant for data collection and construction of the vertebrate food web of the Pyrenees.

C.4. Internationalization and mobility

1. Postdoctoral position in Theoretical Ecology. Center for Biodiversity Theory and Modeling (CNRS), France. PI: Michel Loreau. December 2018 – October 2020.
2. PhD in Ecology. Université Toulouse III - Paul Sabatier, France. March 2015 – October 2018.
3. Scientific internship. Theoretical Ecosystem Ecology Lab led by Dominique Gravel. Quebec, Canada. June – October 2014.
4. Bachelor degree dissertation. National Institute of Biodiversity of Costa Rica (INBio), San José, Costa Rica. Thesis: La participación social como método de conservación (Social participation as a method for conservation). February – July 2011.

C.5. Grants and fellowships

1. Beca Leonardo a Investigadores y Creadores Culturales 2024 – Fundación BBVA. (40.000€).
2. Ramón y Cajal Fellowship.
3. Research Awards L'Oréal-Unesco "For Women in Science" 2022 (15.000 €).
4. Marie Skłodowska-Curie Individual Fellowship. BIOFOODWEB (No 101025471). Integrating biogeography and food web ecology to understand the influence of species diet breadth on their range size (160.932 €).
5. Juan de la Cierva Postdoctoral Fellowship (DECLINED).