

David García-Callejas

CONTACT INFORMATION	Doñana Biological Station (EBD-CSIC) Dpt. of Integrative Ecology C/ Americo Vespucio, 26, 41092 Sevilla, Spain +34 620456021 david.garcia.callejas@gmail.com	ORCID: 0000-0001-6982-476X Google Scholar Publons GitHub Twitter
RESEARCH INTERESTS	I am a community ecologist broadly interested in understanding the structure and dynamics of ecological assemblages, their spatiotemporal patterns, and their response to global change drivers. In particular, I study the role of biotic interactions in shaping local and regional patterns of diversity and coexistence. In approaching these themes, I aim to bridge theoretical approaches to fundamental questions with field experiments and observations.	
CURRENT APPOINTMENTS	Postdoctoral researcher, EBD-CSIC	January 2019 to present
PREVIOUS APPOINTMENTS	Doctoral researcher, CREAM-UAB	September 2014 to November 2018
	Research technician, Imperial College	January 2014 to August 2014
	Research technician, University of Évora	March 2013 to January 2014
	Research technician, CREAM	September 2012 to February 2013
EDUCATION	Ph.D. in Terrestrial Ecology , Universitat Autònoma de Barcelona 11/2018 <ul style="list-style-type: none">• Thesis Title: <i>Structure and dynamics of ecological networks with multiple interaction types</i>• Advisors: Dr. Miguel B. Araújo, Dr. Roberto Molowny-Horas• Associated stays: Integrative Ecology Lab, Univ. of Sherbrooke (Quebec), 09–12/2017, supervised by Prof. Dominique Gravel• Qualification: <i>Magna Cum Laude</i> M.Sc. in Terrestrial Ecology , Universitat Autònoma de Barcelona 09/2012 <ul style="list-style-type: none">• Thesis Title: <i>Projecting the distribution and abundance of Mediterranean tree species under climate change: a demographic approach</i>• Advisors: Prof. Javier Retana, Dr. Roberto Molowny-Horas• 60 ECTS B.S. in Environmental Sciences , Universidad de Alcalá 07/2010 <ul style="list-style-type: none">• 300 ECTS B.S. in Computer Science , Universidad de Granada 09/2006 <ul style="list-style-type: none">• 180 ECTS	
REFEREED JOURNAL PUBLICATIONS	<p>[1] García-Callejas, D., Molowny-Horas, R., Araújo, M.B., Gravel, D. 2019. Spatial cascades in communities connected by dispersal and foraging. <i>Ecology</i>, 100:e02820. doi:10.1002/ecy.2820</p> <p>[2] García-Callejas, D., Torres, A. 2019. Restauración de interacciones ecológicas: medidas y consecuencias a escala de comunidad. <i>Ecosistemas</i>, 28:42-49. doi:10.7818/ECOS.1748</p>	

- [3] **García-Callejas, D.**, Molowny-Horas, R., Araújo, M.B. 2018. The effect of multiple biotic interaction types on species persistence. *Ecology*, 99:2327–2337.
doi:10.1002/ecs.2465
- [4] **García-Callejas, D.**, Molowny-Horas, R., Araújo, M.B. 2018. Multiple interactions networks: towards more realistic descriptions of the web of life. *Oikos*, 127:5–22.
doi:10.1111/oik.04428 (Editor's choice)
- [5] **García-Callejas, D.**, Molowny-Horas, R., Retana, J. 2017. Projecting the distribution and abundance of Mediterranean tree species under climate change: a demographic approach. *Journal of Plant Ecology*, 10:731–743.
doi:10.1093/jpe/rtw081 (Editor's choice)
- [6] **García-Callejas, D.**, Araújo, M.B. 2016. The effects of model and data complexity on predictions from species distributions models. *Ecological Modelling*, 326:4–12.
doi:10.1016/j.ecolmodel.2015.06.002
- PREPRINTS AND PAPERS IN PREPARATION
- [7] **García-Callejas, D.**, Godoy, O., Bartomeus, I. CXR: A toolbox for modelling species coexistence in R. *Manuscript under review*.
- [8] Mestre, F., Gravel, D., **García-Callejas, D.**, Pinto-Cruz, C., Matías, M.G., Araújo, M.B. Disentangling environment food web relationships: a review with guidelines *Manuscript under review*.
- [9] **García-Callejas, D.**, Bartomeus, I., Godoy, O. Manuscript in preparation.
- [10] **García-Callejas, D.** On the variability of Species Abundance Distributions with trophic guild and community structure. Preprint available: *biorXiv*, 289348
doi:10.1101/289348
- CONFERENCE TALKS
- [11] **García-Callejas, D.**, Molowny-Horas, R., Araújo, M.B., Gravel, D. Spatial cascades in networks connected by dispersal and foraging. In: *SIBECOL*, Barcelona, 04–07/02/2019.
- [12] **García-Callejas, D.**, Molowny-Horas, R., Araújo, M.B. Species persistence in networks with multiple interaction types. In: *NetSci conference*, Paris, 11–14/06/2018.
- [13] **García-Callejas, D.** The influence of trophic position on Species Abundance Distributions. In: *Ecology across borders*, Ghent, 11–14/12/2017.
- CONFERENCE POSTERS
- [14] Mestre, F., **García-Callejas, D.**, Pinto-Cruz, C., Matías, M., Araújo, M.B. Environmental correlates of food web structure. In: *9th biennial conference of the International Biogeography Society*, Málaga, 08–12/01/2019.
- [15] **García-Callejas, D.**, Molowny-Horas, R., Araújo, M.B. Multiple interactions networks: towards more realistic descriptions of the web of life. In: *Community Ecology for the 21st Century*, Évora, 17–19/10/2016. (Best poster award)
- INVITED TALKS
- [16] **García-Callejas, D.**, Molowny-Horas, R., Araújo, M.B. Multiple interactions networks in community ecology: towards more realistic representations of the web of life. In: *Centre for Advanced Studies*, Blanes, 10/01/2019.
- [17] **García-Callejas, D.**, Molowny-Horas, R., Retana, J. Distribution and abundance of tree species: A spatially explicit model for Peninsular Spain. In: *Forest sciences centre of Catalonia*, Solsona, 10/12/2012.

TEACHING EXPERIENCE	<p>Universitat Autònoma de Barcelona 2015-2018</p> <p><i>Field/practical courses</i></p> <ul style="list-style-type: none"> • Ecology (B.S. in Environmental Sciences) - 62h • Ecology (B.S. in Biology) - 15h • Analysis and of environmental cartography (B.S. in Env. Biology) - 19h • Analysis and cartography of vegetation (B.S. in Biology) - 23h <p><i>Theoretical courses</i></p> <ul style="list-style-type: none"> • Statistics and environmental modelling (M.Sc. in Terrestrial Ecology) - 2h • Conservation Biology (B.S. in Env. Biology) - 12h • Forest Ecology (B.S. in Env. Biology) - 1h <p>CREAF 2018</p> <p><i>Seminar: Introduction to Latex and Zotero</i></p> <ul style="list-style-type: none"> • 5h in 2 sessions <p>Rui Nabeiro Biodiversity Chair 2013</p> <p><i>Course: Introduction to the R Language</i></p> <ul style="list-style-type: none"> • 12h in 3 sessions
AWARDS	<ul style="list-style-type: none"> • FPU Visiting researcher scholarship, 2017. Science and Education Ministry, Spain. • FPU Ph.D. scholarship programme, 2014–2018. Science and Education Ministry, Spain. • M.Sc. scholarship programme, 2011–2012. “Fundación Obra Social La Caixa”, Spain. • International stay scholarship, 2010. “Fundación Bancaja”, Spain.
LANGUAGES	<ul style="list-style-type: none"> • First Language: Spanish. • English: Proficient reading, speaking, writing. • Catalan, Portuguese, Italian: Intermediate reading, basic speaking and writing.
SOFTWARE SKILLS	<ul style="list-style-type: none"> • Proficiency in R (statistical analyses, data management, dynamic models) • Intermediate user of C++. • Familiarity with QGIS. • Git user, expertise in Latex and reference management software (Zotero).