

**CURRICULUM VITAE**

**Part A. PERSONAL INFORMATION**

**CV date**

March 2025

First name	Vilà		
Family name	Montserrat		
Gender (*)	female	Birth date	11/07/1965
ID number	40462147H		
e-mail	montse.vila@ebd.csic.es	URL Web	<a href="http://www.montsevila.org/index.php">http://www.montsevila.org/index.php</a>
Open Researcher and Contributor ID (ORCID) (*)	0000-0003-3171-8261		

(\*) *Mandatory*

**A.1. Current position**

Position	Profesora de investigación OPIS		
Initial date	2010		
Institution	Consejo Superior de Investigaciones Científicas (CSIC)		
Department/Center		Estación Biológica de Doñana (EBD-CSIC)	
Country	Spain	Phone:	+34.690934093
Key words	Biodiversity, global change, plant communities, Mediterranean ecosystems, introduced species, biological invasions		

**A.2. Previous positions**

Period	Position/Institution/Country/Interruption cause
2010-current	Professor of Research / Department of Integrative Ecology, Estación Biológica de Doñana (EBD-CSIC) / Spain
2012-2015	Deputy Director / Estación Biológica de Doñana (EBD-CSIC) / Spain
2009-2012	Head of the Department of Integrative Ecology Department of Integrative Ecology, Estación Biológica de Doñana (EBD-CSIC) / Spain
2009-2012	Head of the Department of Integrative Ecology Department of Integrative Ecology, Estación Biológica de Doñana (EBD-CSIC) / Spain
2006-2010	Associate Professor of Research / Department of Integrative Ecology, Estación Biológica de Doñana (EBD-CSIC) / Spain
2002-2006	Assistant Professor in Ecology / Department of Animal and Plant Biology and Ecology, Universitat Autònoma de Barcelona (UAB) / Spain
1996-2002	Teacher Assistant, Lecturer, Associate / Department of Animal and Plant Biology and Ecology, Universitat Autònoma de Barcelona (UAB) / Spain
1996-2006	Associated Researcher / Center for Ecological Research and Forestry Applications (CREAF) / Spain
1994-1996	Hired researcher (postdoc) / University of California, Berkeley / USA /

**A.3. Education**

PhD, Licensed, Graduate	University/Country	Year
PhD in Biology	Universitat Autònoma de Barcelona (UAB)/Spain	1993
Bachelor Degree in Sciences (Biology)	UAB/Spain	1988

### **Part B. CV SUMMARY** (max. 5000 characters, including spaces)

Montserrat Vilà's is the leader of the Biological Invasions Research Group at the Spanish National Research Council (CSIC) and President of the European Working Group on Biological Invasions (NEOBIOTA). She has more than 240 publications in high impact journals in Ecology/Environment and interdisciplinary sciences, and more than 40 book chapters on biological invasions that have received >54000 citations, H = 100 in Google Scholar. Her research can be summarized as follows:

**Description of invasion patterns and mechanisms.** Her work has identified that the most invaded habitats by non-native plants at the landscape scale, at the regional scale, in Europe and across the Mediterranean Biome, are the most anthropogenic and the most disturbed areas. She also has investigated the fundamental role played by biological interactions, in particular the facilitating role of pollinators and the lack of natural enemies, in the assembly of introduced species in host communities. She has supervised 12 PhD thesis on this topic.

**The effect of global change on invasions.** She has analyzed the effects of climate change, changes in land use and economic changes on the distribution of the most invasive species in Europe. Future climate change projections indicate that these species will expand at high speed towards northern and eastern Europe. This spatially explicit information is used to identify the most vulnerable areas to the expansion by invasive species. In addition, she has described time lags that show that contemporary invasions are determined by past human activities.

**Analysis of the ecological and socio-economic impacts of invasions.** At the international level, she has led global syntheses on the environmental impacts of invasive species that have been fundamental in IPBES's diagnosis of biological invasions. Recently, she has been working on the assessment of impacts on ecosystem services, including cultural services. This research illustrates the importance of identifying conflicts between different socio-economic sectors that perceive and value the effects of biological invasions differently. She also participates in the evaluation of invasion risk analyses (e.g. EICAT-IUCN) to improve decision-making on the prioritization of species to be managed and regulated. She is strongly committed to the transfer of knowledge at all levels to increase the public awareness on biological invasions and to influence policy with many appearances in the media. She is a member of the Scientific Forum of the European Regulation on Alien Invasive Species (DG Environment).

She has received the Distinction in Ecology Luís Balaguer from the Spanish Association of Terrestrial Ecology (2020), the National Research Award Alejandro Malaspina in the area of Sciences and Technologies of Natural Resources (2021), the North-South Prize from the Council of Europe as a member of the Mediterranean Experts on Climate and Environmental Change (2020), the Gulbenkian Prize for Humanity as a contributing member to IPBES (2022), and the Mercer Award of the Ecological Society of America (2021) as coauthor in a paper lead by B. Bradley. She is corresponding member of the Spanish Royal Academy of Sciences.

### **Part C. RELEVANT MERITS** (last 10 yrs.)



## C.1. Ten selected publications

- Bradley BA, EM Beaury, B Gallardo...**M. Vilà** (9/9) 2024. Observed and potential range shifts of native and nonnative species with climate change. *Annual Review of Ecology, Evolution and Systematics* 55 <https://doi.org/10.1146/annurev-ecolsys-102722-013135>
- Gallardo B, S Bacher, AM Barbosa...**M Vilà** (9/9) 2024. Risks posed by invasive species to the provision of ecosystem services in Europe. *Nature Communications*, 15(1), 2631. <https://doi.org/10.1038/s41467-024-46818-3>
- López BE, JA Allen, JS Dukes...BA Bradley (5/15) 2022. Global environmental changes more frequently offset than intensify detrimental effects of biological invasions. *PNAS*, 119(22), e2117389119. <https://doi.org/10.1073/pnas.2117389119>
- Vilà M**, AM Dunn, F Essl...B Gallardo (1/11) 2021. Viewing emerging human infectious epidemics through the lens of invasion biology. *BioScience* 71: 722-740. <https://doi.org/10.1093/biosci/biab047>
- Vilà M**, EM Beaury, DM Blumenthal...I Ibáñez (1/10) 2021. Understanding the combined impacts of weeds and climate change on crops. *Environmental Research Letters*, 16(3), 034043. <https://doi.org/10.1088/1748-9326/abe14b>
- Bradley BA, BB Laginhas, R Whitlock...CJ Sorte (10/11) 2019. Disentangling the abundance-impact relationship for invasive species. *PNAS* 116: 9919-9924. <https://doi.org/10.1073/pnas.1818081116>. *Mercer Award 2021 of the Ecological Society of America*.
- Vilà M** & Hulme PH (eds.) 2017. *Impact of biological invasions on ecosystem services*. Springer, Heidelberg. ISBN 978-3-319-45121-3
- Magrach A, JP González-Varo, M Boiffier, **M. Vilà** & I Bartomeus (4/5). 2017. Honeybee spillover reshuffles pollinator diets and affects plant reproductive success. *Nature Ecology and Evolution* 1: 1299-1307. <https://doi.org/10.1038/s41559-017-0249-9>
- Gallardo B, M Clavero, MI Sánchez & **M Vilà** (4/4). 2016. Global ecological impacts of invasive species in aquatic ecosystems. *Global Change Biology* 22: 151-163. <https://doi.org/10.1111/gcb.13004>
- Vilà M**, RP Rohr, JL Espinar...P Pysek (1/8) 2015. Explaining the variation in impacts of non-native plants on local-scale species richness: the role of phylogenetic relatedness. *Global Ecology and Biogeography* 24: 139-146. <https://doi.org/10.1111/geb.12249>

## C.2. Selected invited conferences to international meetings

- 2024. VI Simposio Colombiano de Especies Invasoras y Restauración Ecológica, Bogotá, Colombia.
- 2024. 9<sup>th</sup> European Congress of Mathematics, Sevilla, Spain.
- 2023. WSSA Symposium 'Crop-Weed Management in a Rising CO<sub>2</sub> and Warming World, Arlington, USA.
- 2022. Fixing the Future Festival, Barcelona, Spain.
- 2022. Botanical Institute of the Armenian Academy of Sciences, Érevan, Armenia.
- 2021. Lifewatch ERIC e-science for Non-indigenous Species Research Workshop.
- 2020. Women in Ecology, Santiago de Compostela, Spain.
- 2020. Invasion Biogeography: Using Big Data to Assess Invasion and Impact at Macroscales Symposia. Ecological Society of America Meeting.
- 2020. Department of Landscape Architecture, Harvard University Graduate School of Design, USA.
- 2019. First Iberian Society of Ecology Meeting (SIBECOL), Barcelona, Spain.
- 2018. Regional Invasive Species and Climate Change (RISCC) Annual Symposium, University of Massachusetts, Amherst, USA.

- 2018. First Iberian Meeting on Agroecology Research, Évora, Portugal.
- 2017. Faculty of Sciences, University of Sydney, Australia.
- 2017. School of Biological Sciences, Queensland University, Brisbane, Australia.
- 2017. Netherlands Institute of Ecology (NIOO-KNAW), Wageningen, Netherlands.
- 2016. State of the World's Plants Symposium, Royal Botanic Gardens, Kew, UK.
- 2016. Check Academy of Sciences, Pruhonice, Czech Republic.
- 2015. Horizon Scanning of Invasive Species Workshop. EU DG Environment, Brussels, Belgium.
- 2014. 4th International Symposium of Environmental Weeds and Invasive Plants, Montpellier, France.

### C.3. Participation to international research projects

- 2022-2026. Beyond Xylella, integrated strategies for mitigating Xylella fastidiosa impact in Europe (BeXyl). Call HORIZON-CL6-2021 (Project leader: Blanca Landa, IAS-CSIC). Researcher: **M. Vilà**. 32,223 €
- 2022-2024. Developing a macroecological understanding of invasive plant impacts based on abundance and trait data. Powel Center for Analysis and Synthesis (USA) (Project leader: Helen Sofaer, USGS, Hawaiï). Joint Researcher: **M. Vilà**. 119,441 €
- 2022-2024. Functional traits and vital rates of plants in invaded communities (EUR2022-134026). Programa Europa Excelencia del Ministerio de Ciencia e Innovación. Project leader: **M. Vilà**. 89,646 €
- 2019-2022. Understanding and managing the impacts of Invasive alien species on Biodiversity and Ecosystem Services (InvasiBES). Eranet-BIODIVERSA PCI2018-092939. Project coordinator: **M. Vilà**. 967,046 €
- 2019-2021. The other side of invasibility: vulnerability of recipient ecosystems. National Center for Ecological Synthesis (NCEAS) and National Science Foundation of the USA (Project leaders: B. Bradley –U Massachusetts & I. Ibáñez –U Michigan). Joint Researcher: **M. Vilà**. 88,029 €
- 2015-2017. Managing stability of biodiversity-based ecosystem services in crops through enhanced density of green infrastructure in agricultural landscapes (ECODEAL), Eranet-BIODIVERSA PCIN-2014-084 (Project leader Y Clout, Swedish University of Agricultural Sciences). Project leader for Spain: **M. Vilà**. 99,600 €
- 2014-2016. Pollinator responses to global change and its implications for ecosystem functioning (BeeFun), PCIG14-GA-2013-631653, Project leader: **M. Vilà**. 100,000 €

### C.4. Contracts, technological or transfer merits

#### Contracts

- Biological invasions and climate change in Europe: risk analysis and opportunities. Fundación Iberdrola Project leader: **M. Vilà** (2014-2015).
- EU Invasive Alien Species - Prioritizing prevention efforts through horizon scanning. ENV.B.2/ETU/2014/0016. Project leader: H. Roy (2014-2015).
- European Alien Species Information Network (EASIN) – update and alignment to a recent reclassification of pathways by the CBD. ENV.B.2/SER/2015/0037rl. Project leader: H. Roy (2015-2016).
- Ecological consequences of bumblebee spill-over in natural areas (ABEJORROS). Fundación BBVA. Project leader: **M. Vilà** (2019-2021).

### Service to international institutions



Cofinanciado por  
la Unión Europea



- 2011- present. IUCN SSC Invasive Species Specialist Group. Member
- 2014- 2024. European Working Group on Biological Invasions (NEOBIOTA). President
- 2014. GBO-4 technical background document on Aichi Biodiversity Target 9: Invasive alien species, UNEP. Referee
- 2015-present. Scientific Forum of the European Regulation on Alien Invasive Species. Member
- 2017, 2019, 2021, 2023. Panel LS8 ERC Consolidator Grants. Member
- 2017- 2020. Ramon Margalef Award for Ecology. Jury Member
- 2019-2023. IPBES Global Assessment on Biological invasions. Lead author

### **Associate editor**

BioScience (2019- present), Ecology Letters (2012- present), NEOBIOTA (2010- present) and Biological Invasions (2009- present).

### **Training and mentoring**

- 2019-. Associated professor in Ecology. University of Seville
- **Supervisor Phd students:** Isabel Gimeno (2005), Roser Doménech (2005), Ignasi Bartomeus (2008), Núria Gassó (2008), Amparo Carrillo (2011), Jara Andreu (2012), Ana Montero (2014), Pablo González-Moreno (2015), Alejandro Trillo (2019), Carlos Zaragoza (2021), Álvaro Bayón (2021), Javier Galán (2021).
- Regular supervisor in international student programs: Erasmus +, Turing, Leonardo, COST, Fundación Carolina, etc.

### **International panel evaluator**

Deutsche Forschungsgemeinschaft, Swiss National Research Foundation, Research and Innovation SERI in Switzerland, Fundación Banco Bilbao Vizcaya, South Africa's National Research Foundation, Research Foundation Flanders, Ministerio de Educación de Chile, Sino-German Center for Research Promotion, Finland Academy of Sciences, University of Copenhagen, Programa Serra Hunter de la Generalitat de Catalunya.