

CV Date	14/07/2024
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Part A. PERSONAL INFORMATION

First Name	Ana		
Family Name	Novoa Pérez		
Sex	Female	Date of Birth	31/12/1986
ID number Social Security, Passport	44085417Y		
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A.1. Current position

Job Title	Investigadora Ramón y Cajal		
Starting date	2024		
Institution	Estación Experimental de Zonas Áridas		
Department / Centre	Department of functional and evolutionary ecology / Estación Experimental de Zonas Áridas		
Country		Phone Number	(+34) 699688133
Keywords	Plant ecology; Global change		

A.2. Previous positions (Research Career breaks included)

Period	Job Title / Name of Employer / Country
2017 - 2024	Scientist / Academy of Sciences of the Czech Republic
2020 - 2021	Maternity leave
2018 - 2019	Maternity leave
2015 - 2017	Postdoctoral fellow / South African National Biodiversity Institute
2013 - 2015	Postdoctoral fellow / Centre of Excellence for Invasion Biology
2010 - 2012	Predoctoral research / Universidade de Vigo / Spain

A.3. Education

Degree/Master/PhD	University / Country	Year
Programa Oficial de Doctorado en Ecosistemas Terrestres, Uso Sostenible e Implicaciones Ambientales	Universidade de Vigo	2012
Master Universitario en Ecosistemas Terrestres, Usos Sostenibles e Implicaciones Ambientales	Universidade de Vigo	2011
Profesor de Educación Secundaria Obligatoria y Bachillerato, Formación Profesional y Enseñanzas de Idiomas	Universidad de Salamanca	2010
Licenciado en Ciencias Ambientales	Universidad de Salamanca	2009

Part B. CV SUMMARY

I completed my PhD at the University of Vigo (Spain) in December 2012. I have since held two postdoctoral positions in South Africa (between 2013 and 2017) and one position as a research scientist at the Academy of Sciences of the Czech Republic in Prague (between 2017 and 2024). I joined the Estación Experimental de Zonas Áridas (EEZA-CSIC) in Almería in May 2024 as a Ramón y Cajal researcher.

I am a strong and independent researcher, internationally recognised for my works in invasion science. My research entails the use of interdisciplinary techniques to understand the socioecological factors influencing biological invasions, the environmental and socioeconomic

impacts of invasive species, and how they can be effectively managed. In general, my scientific contributions have been directed at understanding the invasion process and the impacts that invasive species can have on ecosystems and human wellbeing, as well as finding effective solutions to manage them. Within this broad objective, my scientific contributions can be divided in four key areas: (1) exploring the human and social dimensions of biological invasions, (2) understanding the patterns and processes that determine biological invasions, (3) designing successful invasive species management actions and (4) assessing the impact and legacy effects of invasive plants on the invaded areas.

Since completing my PhD, I have obtained >10 grants as principal investigator or package/task leader for covering the costs of my travel and research, totalling >4 million euros. Moreover, I have led and co-authored 64 international publications in ISI listed journals, edited two books, and contributed to eight invited book chapters. According to Scopus, 52% of these publications are among the top 10% most cited documents worldwide. According to Google Scholar, my scientific work has received 4599 citations, yielding an h-index of 37 (3 002 citations and h-index of 32 according to WoS). These citations come from researchers based at organisations from across the world. I have presented the results of these publications in >40 different international conferences and, because of my growing reputation, I have also been invited to present my work in several seminars and conferences around the world (e.g., in 2023 I was a plenary speaker of the 16th International Conference on Ecology and Management of Alien Plant Invasions (EMAPi)). Moreover, I have published numerous popular science articles to communicate my results to the general public, and have always tried to make my research contributions accessible to stakeholders beyond the scientific community, and to engage societal actors in the generation of knowledge.

I participate in the editorial board of three ISI registered journals (Biological Invasions, Journal of Ecology and Management of Biological Invasions), I am the co-Editor-in-Chief of the ISI registered journal NeoBiota and I am a member of a variety of international expert groups, including my role as Secretary of the European Group on Biological Invasions (NEOBOTA). Moreover, I have established a wide network of international collaborators. According to Scopus, 83.3% of my scientific publications are co-authored with researchers from other regions, including 248 colleagues with different backgrounds and expertise. This reflects the importance of collaborative research in my work, as well as my ability to build successful national and international networks. These networks include world-renowned invasion biologists, social scientists, mathematical modellers, and practitioners.

To date, I have supervised and mentored several students and postdocs, most of which have successfully continued with their scientific careers and I have the pleasure to still collaborate closely with them. Specifically, I supervised three postdoctoral fellows at the Institute of Botany of the Czech Academy of Sciences (Czech Republic), and co-supervised one PhD student and two Masters students at the Universidade de Vigo (Spain) and one graduate student at the University of the Western Cape (South Africa). Currently, I am co-supervising two PhD students at the Universidade de Vigo (Spain) and University of Stirling (United Kingdom).

Part C. RELEVANT ACCOMPLISHMENTS

C.1. Most important publications in national or international peer-reviewed journals, books and conferences

AC: corresponding author. (n° x / n° y): position / total authors. If applicable, indicate the number of citations

- 1 Scientific paper.** Ana Novoa; Susan Canavan; Ivan Jarić; Pavel Pipek; Petr Pyšek. 2022. Musk's Twitter takeover jeopardises culturomics. *Nature*. Springer. 612, pp.211.
- 2 Scientific paper.** Ana Novoa; Desika Moodley; Jane A Catford; et al; Petr Pyšek. 2021. Global costs of plant invasions must not be underestimated. *NeoBiota*. (25)
- 3 Scientific paper.** Ana Novoa; Lewellyn C Foxcroft; Jan-Hendrik Keet; Petr Pyšek; Johannes Le Roux. 2021. The invasive cactus *Opuntia stricta* creates fertility islands in African savannas and benefits from those created by native trees. *Scientific Reports*. 11-20748. (10)

- 4 **Scientific paper.** (1/4) Ana Novoa (AC); David M Richardson; Petr Pyšek; John RU Wilson. 2020. Invasion syndromes: a systematic approach for predicting biological invasions and facilitating effective management. *Biological Invasions*. 22, pp.1801-1820. (122)
- 5 **Scientific paper.** Petr Pyšek; Sven Bacher; Ingolf Kühn; (4/4) Tim M Blackburn. 2020. MAcroecological Framework for Invasive Aliens (MAFIA): disentangling large-scale context-dependence. *NeoBiota*. 62, pp.407-461. (87)
- 6 **Scientific paper.** Ana Novoa; Ross Shackleton; Susan Canavan; John R. U. Wilson. 2018. A framework for engaging stakeholders on the management of alien species. *Journal of Environmental Management*. 205, pp.286-297. (201)
- 7 **Scientific paper.** (1/4) Ana Novoa (AC); Katharina Dehnen-Schmutz; Jana Fried; Giovanni Vimercati. 2017. Does public awareness increase support for invasive species management? Promising evidence across taxa and landscape types. *Biological Invasions*. 19, pp.3691-3705. (149)
- 8 **Scientific paper.** (1/5) Novoa, A. (AC); Le Roux, J.J.; Robertson, M.P.; Wilson, J.R.U.; Richardson, D.M. 2015. Introduced and invasive cactus species: A global review. *AoB Plants*. 7-plu078. (197)
- 9 **Scientific paper.** (1/4) Novoa, A. (AC); González, L.; Moravcová, L.; Pyšek, P. 2013. Constraints to native plant species establishment in coastal dune communities invaded by *Carpobrotus edulis*: Implications for restoration. *Biological Conservation*. 164, pp.1-9. (103)
- 10 **Scientific book or monograph.** Jonatan Rodríguez; Petr Pyšek; Ana Novoa. 2023. *Biological invasions and global insect decline*. Academic Press.

C.2. Conferences and meetings

- 1 Ana Novoa; María Loreto Castillo; Luís González; et al; Petr Pyšek. Impacts of invasive annual plants on soil physicochemical characteristics and microbial communities in Kruger National Park. Savanna science network meeting. 2024. South African Republic.
- 2 Ana Novoa; Ross Shackleton; Sven Bacher; Rahila Junika. Assessing global public knowledge and perceptions towards biological invasions and their management. *NeoBiota*. 2022. Estonia. Participatory - oral communication.
- 3 Ana Novoa; Petr Pyšek; Jaco Le Roux. Islands of fertility promote the invasion of *Opuntia stricta* in Kruger National Park. *NeoBiota*. 2020. Croatia. Participatory - oral communication.
- 4 Ana Novoa; Marta Pérez-Diz; Luis González. Understanding how characteristics of invaded habitats influence the performance of invasive *Carpobrotus* spp. Festival of Ecology of the British Ecological Society. 2020. United Kingdom. Participatory - oral communication.
- 5 Ana Novoa; Jaco Le Roux. Additive effect of urbanization and invasion by *Carpobrotus edulis* on the soil ecology in coastal areas.. International Conference on Ecology and Management of Alien Plant Invasions (EMAPi). 2019. South African Republic. Participatory - oral communication.
- 6 Ana Novoa; Desika Moodley; Petr Pyšek. Biological invasions: Moving towards an interdisciplinary science. 5th International Global Biodiversity Conference. 2018. Czech Republic. Participatory - oral communication.
- 7 Ana Novoa; David M. Richardson; Sven Bacher; John R. U. Wilson. Invasion syndromes – moving towards meaningful generalisations in invasion science. *NeoBiota*. 2018. Ireland. Participatory - oral communication.
- 8 Ana Novoa; Susan Canavan; David M Richardson; John R Wilson. When can we make generalizations in invasion science?. International Conference on Ecology and Management of Alien Plant Invasions (EMAPi). 2017. Portugal. Participatory - oral communication.
- 9 Ana Novoa; John R. Wilson; Julia Touza; David M. Richardson. Engaging stakeholders on the management of invasive species: a step by step framework. *NeoBiota*. *Neobiota*. 2016. Luxembourg. Participatory - oral communication.
- 10 Ana Novoa. Cactaceae as alien species –lessons for management. International Conference on Ecology and Management of Alien Plant Invasions (EMAPi). 2015. United States of America. Organizational - Scientific and organizing committee.

C.3. Research projects and contracts

- 1 **Project.** OneBiosecurity Systems and Technology for People, Places and Pathways (OneStop). Horizon Europe – the Framework Programme for Research and Innovation. 01/01/2025-30/06/2028. 5.999.990 €. PI of beneficiary.
- 2 **Project.** A network perspective for ecosystem responses to plant invasion. Australian Research Council. (Institute of Botany of the Czech Academy of Sciences). 01/06/2024-31/05/2028. 464.095 €. Co-principal investigator.
- 3 **Project.** Management of Naturalized Alien Flora (MoNAF). Gestión Atracción de Talento CSIC para RYC-2022. (Estación Experimental de Zonas Áridas). 2024-2026. 100.000 €. Principal investigator.
- 4 **Project.** Harnessing iEcology and culturomics to advance invasion science. Czech Science Foundation. (Institute of Botany of the Czech Academy of Sciences). 2023-2025. 478.870 €. Co-principal investigator.
- 5 **Project.** Landscape GENomics and Niche dynamics of hybrid Invasive Alien plants (GENNIAlien). Ministerio de Ciencia e Innovación. (Instituto Botánico de Barcelona). 2022-2025. 90.100 €. Team member.
- 6 **Project.** Invasions dynamics of native and exotic Prosopis species and their impacts on functional traits of associated native plants in the hyperarid deserts of the Gulf regions. University of Sharjah. (University of Sharjah). 2022-2024. 50.135 €. Team member.
- 7 **Project.** Rivers as drivers of plant invasions in an African savanna: integrating invasiveness and impact across spatial and temporal scales. Czech Science Foundation. (Institute of Botany of the Czech Academy of Sciences). 2022-2024. 240.658 €. Work package coordinator.
- 8 **Project.** The role of hybridization in plant invasiveness: global insights across continents.. Czech Science Foundation. (Institute of Botany of the Czech Academy of Sciences). 2020-2023. 405.000 €. Principal investigator.
- 9 **Project.** Macroecology of Plant Invasions: Global Synthesis across Habitats (SynHab).. Czech Science Foundation. (Institute of Botany of the Czech Academy of Sciences). 2019-2023. 1.773.816 €. Team member.
- 10 **Project.** The invasion ecology of succulent plants. South African National Biodiversity Institute. (Stellenbosch University). 2015-2017. 71.000 €. Principal investigator.