Melián 2pp CV

Curriculum Vitae

Personal information

Name: Melián, Carlos, J.

Researcher ID: C-2146-2008 **ORCID:** 0000-0003-3974-6515 **SCOPUS:** 55220360000

URL for web site: http://www.eawag.ch/en/aboutus/portrait/organisation/staff/profile/carlos-melian/show/

Education

2005 PhD in Biology and Environmental Sciences.

Department of Ecology, University of Alcalá, Madrid, and Biological Doñana Station,

Seville, Spain. Supervisor: Prof. Jordi Bascompte (February 2005).

Professional Experience

2015-Present EAWAG and Lecturer *University of Bern*, Switzerland.

2010-2015 EAWAG (Tenured since end 2015),

Fellowships

2022-2024 Maria Zambrano Fellowship, IFISC, Spain

2019-2022 The August T. Larsson Fellowship, *SLU*, Sweden.

2008-2010 Postdoctoral Fellow, *Microsoft Research Ltd*. UK, (Unrestricted Gift).

2005-2007 Postdoctoral Fellow, *National Center of Ecological Analysis and Synthesis (NCEAS)*,

University of California Santa Barbara, USA.

2001-2004 PhD. Fellowship, *Spanish Ministry of Science and Technology*, Spain

1999 Student research fellowship, Ministry of Foreign Affairs. Spanish Agency for

International Cooperation, Spain and University of Granma, Bayamo, Cuba.

Title: Linking Agroecology, Conservation and Theoretical Ecology.

Student research fellowship, Department of Ecology, Alcala University, Spain

Title: Complex Systems: Theory and its Application to Ecology.

Leadership international scientific meetings (From 2018)

2022 Session chair "Eco-evolutionary dynamics of multilayer networks: From lakes to oceans.

INTECOL, Geneve, Switzerland

2019 2nd Reproducible research workshop "Open source science in a new reproducible research era",

Eawag, Kastanienbaum, Switzerland.

2018 International exploratory workshop "Biodiversity dynamics in coevolutionary metaecosystems",

Swiss National Science Foundation, Switzerland.

2018 1st Reproducible research workshop "*The reproducible research ecosystem.*" Eawag,

Kastanienbaum, Switzerland.

2018 Scientific event "Biodiversity Dynamics in Coevolutionary Metaecosystems",

SNSF IZSEZ0_183489, Switzerland.

Supervision Postdocs (From 2018: 6 females [Argentina, Brazil, Colombia and China]; 2 males [Switzerland and Italy])

Catalina Chaparro (Marie Curie Fellowship, EU)
Leonardo Aguirre (Joint research, SNSF-CNPq Brazil)
Gian Marco Palamara (Joint research, SNSF-CNPq Brazil)
Pengjuan Zu (Spark, SNSF)
Malena Sabatino (Spark, SNSF)

Julia Astegiano (*SNSF IZSEZO_183490*, Research visit grant)
 Cecilia Andreazzi (*SNSF IZSEZO_183490*, Research visit grant)

Editorial and Boards

2022-Present Subject editor Frontiers in Ecology and Evolution

Catalina Chaparro (Spark, SNSF)

2018-Present Recommender for *PCI Ecology*

2017-Present Research commission board, **NaXys** complex system research institute, U. Namur, Belgium

2011-Present Subject editor journal Oikos

2019

Teaching activities

2022 2nd Multilayer Networks hands-on course, Mallorca, IFISC (Maria Zambrano Fellowship)

2021 1st Multilayer Networks hands-on course, Mallorca, IFISC and Imedea

2013-present "Introduction to literature analysis" *Institute of Ecology and Evolution, Uni. Bern*, Switzerland.

2013 Course "Speciation models" to undergrad. and PhD students. *Eawaq, Kastanienbaum*, Switzerland.

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2012	Course on "Evolutionary biodiversity dynamics" with Prof. Ole Seehausen. <i>Institute of Ecology and Evolution</i> , <i>U. Bern</i> , Switzerland.	
2007-2009	"Kids Do Ecology" program. National Center for Ecological Analysis and	
	Synthesis (NCEAS). Univ. California Santa Barbara, USA.	
Invited National and International Talks (2018-2023, 8 countries)		
2023	Trait Architecture and coexistence in spatially-explicit food webs. CSIC-Zonas aridas, Almeria, Spain.	
2022	A multilayer framework for Archipielago sustainability. WBF, Davos, Switzerland.	
2022	Integration of theory and empirical data. Univ. Madeira, Portugal.	
2021	Multilayer food webs. Fritz Müller Seminar Series, Sao Paulo, Brazil.	
2021	Diversification and biodiversity dynamics in eco-evolutionary networks . Symposia <i>Ecological Networks</i> , Mallorca, Spain	
2020	Biodiversity and radiations on networks. IFISC, Mallorca, Spain.	
2020	Biodiversity multitrait dynamics in exploited ecosystems. WBF, Davos, Switzerland.	
2019	Biodiversity Multitrait Dynamics in Rapidly Changing Seascapes . Symposia "From species diversity to marine ecosystem functions" IFREMER, Boulogne-sur-Mer, France.	
2019	Tangling the webs of life. Symposia "Causes and consequences of temporally	
	fluctuating selection in the wild", Evolution AMS meeting, <i>Providence</i> , June, USA.	
2018	Fluctuating selection in e-co-evolutionary networks. Networks on Networks	
	workshop, University Darmstadt, February, Germany.	
2018	Tangling the webs of life. NaXys Research Institute, Namur, Belgium.	
	Keynote speaker Kick-off meeting	

Publication summary

I have 43 publications in international peer reviewed journals, h-index: 26, i-10 index: 37, total citations: 6516 (Google scholar, Oct 2023). I have 22 papers as first/senior author with a mean 5YIF equals to 8.924. I have obtained funding as a PI or Co-PI from six countries, Germany, Portugal, Spain, Switzerland, UK, USA and the EU with a total of approx. 1,750,000EUR.

Grant summary (2018-2023)

Grant summary (2010 2025)		
2021-2023	Melián, C. J. (PI), and Ferrão, A. S. Brazilian-Swiss Joint Research Programme, SNSF, Switzerland. Title: <i>Feedbacks between coevolving predator-prey interactions and the functioning of aquatic ecosystems.</i> Period: 2 years (Postdoc), 228,583 CHF.	
2020	Pengjuan, Z., and Melián, C. J. (Co-PI). Spark, SNSF, Switzerland.	
	Title: <i>Information processing traits as drivers of ecological networks.</i> Period: 1 year, 100,000 CHF.	
2019	Chaparro, C., and Melián, C. J. (Co-PI). MSCA Fellowship, Horizon 2020, EU. Title: <i>Origin and maintenance of biodiversity: An ecological, evolutionary and developmental theory of organisms' interactions.</i> Period: 2 years, 191,141EUR	
2019	Chaparro, C., and Melián, C. J. (Co-PI). Funding Agency: Spark, SNSF, Switzerland. Title: <i>Eco-evolutionary dynamics of ecosystems resilience</i> . Period: 1 year, 100,000 CHF.	
2019	Sabatino, M. C., and Melián, C. J. (Co-PI). Funding Agency: Spark, SNSF, Switzerland. Title: <i>Ecoevolutionary dynamics of trait variation in rapidly changing mutualistic interaction landscapes</i> . Period: 1 year, 100,000 CHF.	
2018	Melián, C. J. Funding Agency: Swiss National Science Foundation, Scientific Exchange program. Title: <i>Biodiversity Dynamics in Coevolutionary Metaecosystems</i> . Period: 3 Months, 20,500 CHF.	
Prices and awards		

2008-2010 Fellowship granted by Microsoft Research Ltd. (Unrestricted Gift).

Place: NCEAS, University of California, Santa Barbara, USA.

Title: *Unifying Theories of Molecular, Community and Network Evolution.*

Period: 2 Years, 200,000\$.

Project page: https://www.nceas.ucsb.edu/projects/12306

2005-2007 Fellowship granted by the *National Center of Ecological Analysis and Synthesis (NCEAS)*,

University of California, USA.

Place: NCEAS, University of California, Santa Barbara, USA.

Title: The Evolution of Behavior and the Structure of Complex Ecological Networks.

Period: 3 Years, 120,000\$.

Project page: https://www.nceas.ucsb.edu/projects/9280