

Mario Mairal Pisa

Visiting Professor at Universidad Complutense de Madrid

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Research interest: biodiversity, evolution, bio/phylogeography, ecology, plant population genetics, island biology, conservation, systematics, taxonomy, flora and fauna

EDUCATION

- 2010 – 2015 **PhD in Biodiversity and Evolution.** Real Jardín Botánico (RJB), Madrid. University Rey Juan Carlos, *summa cum laude*. November 2015.
- 2009 – 2010 **MSc in Conservation Biology.** Specialisation in plant conservation biology. University Complutense, Madrid.
- 2003 – 2008 **BSc Biology.** Double specialties: **Botany and zoology.** University Complutense, Madrid.

POSITIONS, RESEARCH & TRAINING

- Nowadays **Visiting Professor** at Universidad Complutense de Madrid (Department of Biodiversity, Ecology and Evolution).
- 2018 – 2020 **Postdoctoral Fellow.** Stellenbosch University (Department of Botany and Zoology) and Johannesburg University. Hosted by: Johannes Le Roux & Cang Hui (South Africa).
- 2017 **Postdoctoral Fellow.** Charles University (Department of Botany, Faculty of Science) & Institute of Botany of the Czech Academy of Sciences. Hosted by Zuzana Münzbergová's lab (Czech Republic).
- 2016 **Project Manager** for recovery plans with threatened species, Cabildo de Gran Canaria (Canary Islands, Spain)
- 2016 **Conservation Assistant.** National Avian Research Center (United Arab Emirates).
- 2010 – 2015 **Ph.D. in Biodiversity and Evolution.** Royal Botanic Garden (Madrid, Spain).
- 2009 **Research Assistant.** Conservation and reintroduction of the European mink (*Mustela lutreola*) in Saarland, April-August/2009 (Germany).
- 2008 – 2009 **Research Assistant.** Technical monitoring of the endangered Krusty (*Vella pseudocytisus* subsp. *pauui*). Aragón Government- University Complutense Madrid.
- 2006 – 2008 **Guide-Field technician.** Management of National Parks, Spain.
- 2004 – 2006 **Lab technician and field assistant.** Botany and micology, University Complutense, Madrid.

DISTINCTIONS, AWARDS, HONORS & FELLOWSHIPS

Summary: 17 distinctions. Total funding: € 128.022

- 2019 **International Postdoctoral Fellowship** – Using molecular markers to understand the effects of climate change in shaping patterns of plant diversity. Charles University (€59.232) (Rejected by 2020 position).
- 2019 **Postdoctoral Fellow Award for Exceptional Achievement 2019.** Awarded by the Vice-Rector of Stellenbosch University (€600).
- 2019 **National Conservation Award César Gómez Campo,** awarded by SEBICOP (Spanish Society of Plant Conservation Biology) for the “best work of the 2017-2018 biennium” (€500).
- 2019 **Running-up Presentation Award at the Stellenbosch Research day** for the talk: Preventing the Zombie Apocalypse in Sub-Antarctic island systems (€100).
- 2019 **Division for Research Development (DRD) Travel Grant,** awarded by Stellenbosch University (€1.000).
- 2019 **Postdoctoral Research Fellowship** at the Department of Botany and Zoology of Stellenbosch University (€10.000).
- 2018 **Travel Award** to attend the 9th Biennial Conference of the International Biogeographic Society in January 2019 (€600).
- 2018 **Postdoctoral fellow** for the AFBA ("A Functional Biogeography of the Antarctic") international research program, project part of the Antarctic Circumnavigation Expedition (ACE) (€30.000).

- 2017 **International Postdoctoral Fellowship** – Consequences of polyploidization: from single traits to population dynamics. Charles University (€16.800).
- 2017 **Postdoctoral position** in forest genetics, population biology, and ecology offered at the Institute of Forest Research at the University of Quebec (Rejected by 2017 position).
- 2010 – 2015 **Doctoral scholarship** FPI (Formación del Personal Investigador). Full-time (€57.600).
- 2013 **Best student talk award** runner up, awarded for a very significant contribution in the field of Biological Systematics. II Iberian Congress of Biological Systematics, CISA.
- 2011 **Winner V Scientific Marathon** CSIC- Real Jardín Botánico.
- 2010 & 2013 **Communication Awards**: Best Environment blog 2010, and nomination for Best Science Blog 2013 for “El Ojo de Darwin” in “Awards 20 Blogs”, granted by the newspaper *20 minutos*.
- 2009 **International FARO scholarship** at Osnabrück University (Germany) (€4800).
- 2006 – 2007 **SÉNECA Scholarship** to pursue a ‘career year’ in another centre (Universidad de La Laguna – Canary Islands) (€6.000).

PUBLICATION LIST

Q1 peer-reviewed Journals (*=corresponding author)

- J. Chau, N. Mtsi, Z. Münbergová, M. Greve, P. le Roux, **M. Mairal**, B. van Vuuren. **2020**. An update on the indigenous vascular flora of sub-Antarctic Marion Island: taxonomic changes, sequences for DNA barcode loci, and genome size data. *Polar Biology*, 43: 1817–1828. Agricultural and Biological Sciences (miscellaneous) **Q1**, **IF=1.98**. <https://link.springer.com/article/10.1007/s00300-020-02747-7>
- J. Chau, C. Born, M. McGeoch, D. Bergstrom, J. Shaw, A. Terauds, **M. Mairal**, J. Le Roux, B. van Vuuren. **2019**. The influence of landscape, climate, and history on spatial genetic patterns in keystone plants (*Azorella*) on sub-Antarctic islands. *Molecular Ecology* 28: 3291–3305. Evolutionary Biology **Q1** (6/49), **IF=6.131**. <https://onlinelibrary.wiley.com/doi/full/10.1111/mec.15147>
- C. García-Verdugo, J. Caujapé-Castells, J.C. Illera, **M. Mairal**, J. Patiño, A. Reyes-Betancourt, S. Scholz. **2019**. Pleistocene extinctions as drivers of biogeographical patterns on the easternmost Canary Islands. *Journal of Biogeography* 46: 845–859. Geography, physical **Q1** (7/49), **IF=4.15**. <https://onlinelibrary.wiley.com/doi/full/10.1111/jbi.13563>
- C. García-Verdugo, J. Caujapé-Castells, **M. Mairal**, P. Monroy. **2018**. How repeatable is microevolution on islands? Patterns of dispersal and colonization-related plant traits in a phylogeographical context. *Annals of Botany*, 123: 557–568. Plant Sciences **Q1** (22/211), **IF=4.04**. <https://academic.oup.com/aob/article/123/3/557/5150094>
- ***M. Mairal**, M. Šurinová, S. Castro, Z. Münzbergová. **2018**. Unmasking cryptic biodiversity in autopolyploids: origin and ongoing diversification of cytotypes in the *Aster amellus* aggregate. *Annals of Botany* 122: 1047–1059. Plant Sciences **Q1** (22/211), **IF=4.04**. <https://academic.oup.com/aob/advance-article/doi/10.1093/aob/mcy149/5068832>
- ***M. Mairal**, J. Caujapé, L. Pellissier, M. Heuertz, R. Jaén Molina, N. Álvarez, I. Sanmartín. **2018**. A tale of two forests: ongoing aridification drives population decline and genetic diversity loss at continental scale in Afro-Macaronesian evergreen-forest archipelago endemics. *Annals of Botany*. 122: 1005–1017. Plant Sciences **Q1** (22/211), **IF=4.04**. <https://academic.oup.com/aob/advance-article/doi/10.1093/aob/mcy107/5037756>
- C. García-Verdugo, **M. Mairal**, P. Monroy, M. Sajeve, J. Caujapé-Castells. **2017**. The loss of dispersal on islands hypothesis revisited: Implementing phylogeography to investigate evolution of dispersal traits in *Periploca* (Apocynaceae). *Journal of Biogeography* 44: 2595–2606. Geography, physical **Q1** (5/49), **IF = 4.154**. <https://onlinelibrary.wiley.com/doi/abs/10.1111/jbi.13050>
- ***M. Mairal**, I. Sanmartín, L. Pellissier. **2017**. Lineage-specific climatic niche drives the tempo of vicariance in the Rand Flora. *Journal of Biogeography* 44: 911–923. Geography, physical **Q1** (5/49), **IF = 4.154**. <https://onlinelibrary.wiley.com/doi/full/10.1111/jbi.12930>
- ***M. Mairal**, J. J. Aldasoro, I. Sanmartín, P. Vargas, M. Alarcón. **2017**. Geographic barriers and Pleistocene climate change shaped patterns of genetic variation in the Eastern Afromontane biodiversity

hotspot. *Scientific Reports*, 7. Multidisciplinary Sciences, Q1 (7/61), IF=5.228. <https://www.nature.com/articles/srep45749>

- *M. Mairal, I. Sanmartín, J. J. Aldasoro, I. Manolopoulou, V. Culshaw, M. Alarcón. 2015. Palaeo-islands as refugia and cradles of diversity in volcanic archipelagos: the case of the widespread endemic *Canarina Canariensis*. *Molecular Ecology* 24: 3944–3963. Evolutionary Biology, Q1 (5/46), IF=6.494. <https://onlinelibrary.wiley.com/doi/abs/10.1111/mec.13282>
- L. Pokorny, R. Riina, M. Mairal, V. Culshaw, A. Sánchez-Meseguer, M. Serrano, R. Carbajal, S. Ortiz, M. Heuertz, I. Sanmartín. 2015. Living on the edge: timing of Rand Flora pattern disjunctions compatible with ongoing aridification in Africa. *Frontiers in Genetics* 6: 1–15. Genetics, Q1, IF=4.08. <https://www.frontiersin.org/articles/10.3389/fgene.2015.00154/full>
- *M. Mairal, L. Pokorny, J. J. Aldasoro, M. Alarcón, I. Sanmartín. 2015. Ancient vicariance and climate-driven extinction explain continental-wide disjunctions in Africa: the case of the Rand Flora genus *Canarina* (Campanulaceae). *Molecular Ecology* 24: 1335–1354. Evolutionary Biology, Q1 (5/46), IF=6.494. <https://onlinelibrary.wiley.com/doi/abs/10.1111/mec.131144>

Other scientific journals:

- M. Mairal. 2019. Una historia de dos bosques: el ocaso de la vegetación subtropical Afro-Macaronésica. *Conservación Vegetal*, 23. Doi: 10.15366/cv2019.23.004
- I. Sanmartín, L. Pokorny & M. Mairal. 2016. Origen evolutivo de una enigmática distribución geográfica: La “Rand Flora” Africana. *Investigación y ciencia (Scientific American)*.
- *M. Mairal, A. Sánchez-Meseguer. 2012. Resolviendo una incógnita biogeográfica, el caso de la Rand Flora Afro-mediterránea. *Chronica naturae* 2: 53–63.

Book chapters:

- J. J. Le Roux*, S. Clusella-Trullas, S. Geerts, M. Mairal, T. Mokotjomela, D. Richardson, L. Skein, J. Wilson, O. Weyl. 2019. The role of biotic interactions during biological invasions: Insights from South Africa. In *Biological Invasions in South Africa* (pp. 387–427). Springer, Cham.
- A. R. Burgaz, G. Amo de Paz, L. Mauro, M. Mairal. 2006. Contribution to the study of the genus *Cladonia* in the Iberian Peninsula. V. *Cladonia chorophaea* and related taxa. *Iberian Lichenological Flora*: CGL2004-04795-C04-01.

Thesis:

- M. Mairal. 2015. Macroevolution and Microevolution in island systems: the Rand Flora pattern in the genus *Canarina*. DOI: 10.13140/RG.2.2.30108.28806/1

Scientific - technical publications:

- M. Mairal. 2017. Recovery plan report for the endangered species *Isoplexis chalcantha* and evaluation of the actions performed for *Helianthemum inaguae* y *H. bystropogophyllum*. Cabildo de Gran Canaria. DOI: 10.13140/RG.2.2.20299.18726
- Felipe Domínguez, Mario Mairal. 2009. Recovery Plan of *Vella pseudocytisus* sbsp. *Paui* Gómez Campo. Report on the demographic monitoring and control, year 2009. Ref. scientific and technical report, Aragón Government.

RESEARCH & CONSERVATION PROJECTS

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|-------------|--|
| 2018 – 2019 | SANAP Programme (South African National Antarctic Programme). PI: Bettine van Vuuren 2018 – 2019 |
| 2018 – 2019 | "A Functional Biogeography of the Antarctic" international research program. PI: Steven L Chown. |

- 2018–2019 **WORLDCLIMB**: Patterns of the climbing impacts on cliff vegetation of the Mediterranean Biome: implementation of an innovative and comprehensive methodology in a worldwide geographical range. PI: Martí March-Salas. Grant EC-50532R-18.
- 2017 **Consequences of polyploidization**: from single traits to population dynamics (Nº 13-32048S). PI: Zuzana Munzbergová.
- 2016 **Recovery plan for threatened plants of Gran Canaria**: *Isoplexis chalcantha*, *Helianthemum inaguae* and *Helianthemum bystropogophyllum*. PI: **Mario Mairal**.
- 2016 **Recovery plan for threatened plants of Gran Canaria**: *Pericallis hadrosoma*, *Solanum vespertilio doramae*, *Lotus kunkelii* y *Kunkeliella canariensis*. PI: **Mario Mairal**.
- 2016 **Study Project on the Houbara Bustard Populations** (*Chlamydotis undulate macqueenii*). United Arab Emirates. National Avian Research Centre.
- 2013 – 2016 The assembly of African floras from lineages to populations: effects of historical climate changes and species ecology (**AFFLORA**) (Nº: CGL2012-40129-C02-01). PI: Isabel Sanmartín
- 2010 – 2013 Tracing the **origin of the Afro-Mediterranean Rand Flora** with dating phylogenetic and biogeographic inference (Nº CGL2009-1332-C03-01). PI: Isabel Sanmartín.
- 2010 **Evolución, sistemática y biogeografía de *Campanula*** y relaciones filogenéticas en otros géneros afines de Campanuláceas (Nº CGL2006-09696). PI: Juan José Aldasoro.
- 2009 **Conservation and reintroduction of the European mink** (*Mustela lutreola*) in Germany (Saarland). Federal Biodiversity Program. PI: Elisabeth Peters & Ina Klaumann.
- 2009 **Monitoring and control of *Vella pseudocytisus* subsp. *Paui*** in 2009. Proposal: RB-92.114. Contract FGUCM: 179/2009. PI: Felipe Domínguez.
- 2005 – 2006 **Iberian Lichenological Flora** (Nº DGI, CGL2004-04795-C04-01/BOS). PI: Ana Rosa Burgaz.

ADDITIONAL LONG-TERM RESEARCH STAYS (> 1month)

- 05/04/18 – 8/05/18 **Marion island's Sub-Antarctic research base**. Researching biogeographic patterns and processes in the sub-Antarctic and the effects of biological invasions mediated by climate change.
- 04/10/16 – 13/12/16 **National Avian Research Centre** (United Arab Emirates). Guest researcher as conservation manager. Researching interactions plant – birds, counting and monitoring free-ranging wild birds.
- 01/06/16 – 03/10/16 **Jardín Botánico Viera y Clavijo**, Las Palmas de Gran Canaria (Spain). Project manager for recovery plans with threatened species.
- 01/05/14 – 29/08/14 **Lausanne University** (Switzerland) & **Freiburg University** (Switzerland). Guest researcher at Nadir Álvarez's Lab, Researching statistical phylogeography. Guest researcher at Loïc's Pellissier researching ecological niche modelling. Guest researcher at Myriam Héuertz's lab researching ABC simulations.
- 01/04/13 – 01/05/13 **Institut Botanic de Barcelona-CSIC** (Spain). Researching demographic population analysis with Marisa Alarcón: PhD co-supervisor and external partner in AFFLORA project.
- 27/01/12 – 26/06/12 & 01/09/12 – 22/12/12 **Jardín Botánico Viera y Clavijo**, Las Palmas de Gran Canaria (Spain). Guest researcher at Juli Caujapé's lab; developing microsatellites and sampling of Macaronesian flora.
- 15/05/09 – 03/08/09 **Osnabrück University**, Berschweiler (Germany). Technical conservation of the critically endangered European mink (*Mustela lutreola*).
- 01/10/07 – 30/07/08 **La Laguna University**, Tenerife (Spain). One-year scholarship degree on the speciality of biodiversity and conservation of island biotas.

TEACHING & KNOWLEDGE TRANSFER

LECTURER & DEMONSTRATOR

- 2019 – Committee on education in the project 'Expanding the teaching of biogeography' of the *International Biogeography Society*.
- 2018 **Teacher-Assistant Doctor Certificate**. Certified by the Government of Spain (ANECA).
- 2018 – 2020 **Demonstrator of Botany and Zoology**. Stellenbosch University – Form and function of plants. Form and function of animals, Cytology, Evolution and Ecology (120h).

COURSES

- 2017 **Mario Mairal**, sole organiser & lecturer. **Island Phylogeography Course** - Faculty of Sciences, Charles University. December 2017. Oriented to postdocs and university teachers. 20 hours. Course evaluation by the assistants: 4.9/5.
- 2007 – 2009 Botany, herpetology and management of National Parks. Organismo Autónomo de Parques Nacionales de España. 20 h.

INSTRUCTOR & EDUCATIONAL SERVICES

- 2016 Ecology and botany of tropical forests. Dracaena Amazon Expeditions. (20h).
- 2007 – 2009 Botany, herpetology and management of National Parks. Organismo Autónomo de Parques Nacionales de España (>200 h).

SELECTED PRESENTATIONS & INVITED TALKS

Summary: 24 oral presentations; 11 International meetings; 2 invited conferences.

Oral (selected)

- 2019 **Mario Mairal. Island Biology 2019.** III International Conference. Reunion Island (France). Invited speaker to the symposium 'Evolutionary trends in island plants: is everything lost on islands?' Talk Title: What do wind-dispersed species tell us about loss of dispersal. 8–13 Jul.
- 2019 **Mario Mairal**, Mary Namaganda, Christian Brochmann, Pilar Catalán. **International Biogeography Society**, 9th biennial conference. Málaga, Spain. Colonization and diversification of wind-dispersed *Festuca* grasses in Afroalpine sky-islands. 8–12 Jan.
- 2018 **Mario Mairal**, Bettine van Vuuren, Johannes Le Roux. **5TH Symposium ANTARCTIC SANAP.** Hermanus, South Africa. The origin of recent biological invasions in sub-Antarctic islands: the case of *Poa annua*. 13–15 Aug.
- 2017 Isabel Sanmartín, Tamara Villaverde, Lisa Pokorny, **Mario Mairal**, Sanna Olsson & Ricarda Riina. **XIX International Botanical Congress (IBC). 2017.** Shenzhen, China. Exploring the evolutionary and ecological drivers behind intracontinental geographic disjunctions: the African Rand Flora. Abstract Book I. page 78: abstract T1-27-04. 23-29 July.
- 2015 **Mario Mairal**, Marisa Alarcón, Juan José Aldasoro, Lisa Pokorny, Isabel Sanmartín. **Floramac 2015.** Las Palmas de Gran Canaria, Spain. A long history of climate-driven extinction has led Rand Flora lineages to find refugium in Macaronesia: a deeper look at the Tenerife paleo-islands. 24–27 March.
- 2014 **Mario Mairal**, Juan José Aldasoro, Marisa Alarcón, Isabel Sanmartín. **VIII RJB-CSIC Scientific Marathon.** Madrid, Spain. Macroevolution and microevolution in island systems: the Rand Flora pattern in the Afro-macaronesian genus *Canarina*. 28 Nov.
- 2014 Lisa Pokorny, Ricarda Riina, **Mario Mairal**, Andrea Briega, Jon Cendoya, Isabel Sanmartín. **Evolution.** North Carolina, USA. The role of extinction in the assembly of large-scale biodiversity patterns. 20–24 June
- 2013 **Mario Mairal**, Juan José Aldasoro, Marisa Alarcón, Isabel Sanmartín. **VII RJB-CSIC Scientific Marathon.** Historia de dos islas: extinción, dispersión y cambio climático en el género afro-macaronesico *Canarina*. Madrid, Spain. 15 Nov.
- 2013 **Mario Mairal**, Ruth Jaén, Juanjo Aldasoro, Marisa Alarcón, Juli Caujapé, Isabel Sanmartín. **II Iberian Congress of Biological Systematics (CISA 2013).** Barcelona, Spain. Plant evolution in island systems: population study of oceanic islands and continental sky-islands in the genus *Canarina* (Campanulaceae). 25 – 27 Sep.
- 2013 **Mario Mairal**, Juan José Aldasoro, Isabel Sanmartín, Pablo Vargas, Marisa Alarcón. **X Annual Ecoflor Meeting.** Sevilla, Spain. Genetic structure of *Canarina eminii*, an epiphytic species of the East African Sky island forests. 31 Jan – 1 F.
- 2012 **Mario Mairal**, Juli Caujapé, Ruth Jaén, Marisa Alarcón, Juan José Aldasoro, Isabel Sanmartín. **II UNESCO Chair Meeting for Plant Biodiversity Conservation in Macaronesia and Western Africa.** Las Palmas de Gran Canaria, Spain. Solving the mystery of the Rand Flora pattern: islands in the sky 'vs' oceanic islands. 28 – 30 Nov.
- 2011 **Mario Mairal**, Juan José Aldasoro, Marisa Alarcón, Isabel Sanmartín. **V RJB-CSIC Scientific Marathon.** Madrid, Spain. A biogeographical mystery: the disjunction of Afro-Macaronesian genus *Canarina* (Campanulaceae). 17 Oct.
- 2011 **Mario Mairal**, Isabel Sanmartín, Juan José Aldasoro, Marisa Alarcón. **VIII Annual Ecoflor Meeting.** Toledo, Spain. *Canarina* phylogeographic study, a genus of Afro-Macaronesian distribution. 3 – 4 Feb.

2006 A. R. Burgaz, G. Amo, L. Mauro, **M. Mairal**. **II Jornadas de Liquenología**. Bragança, Portugal. Contribución al estudio del género *Cladonia* en la Península Ibérica. V. *Cladonia clorophaea* y taxones afines. 7 Sept.

Poster

2017 **Mario Mairal**, Mária Šurinová, Silvia Castro, Zuzana Münzbergová. **Czech Ecological Conference 2017**. Disentangling speciation between *Aster amellus* cytotypes. 25 – 27 Sep.

2013 **Mario Mairal**, Lisa Pokorny, Ruth Jaén, Juli Caujapé, Isabel Sanmartín. **IV SESBE Meeting**. Barcelona, Spain. Disentangling the role of stepping-stone dispersal and large-scale extinction on wide ranging disjunctions: a case study on African *Canarina* flowers. 27 – 29 Nov.

2013 **Mario Mairal**, Lisa Pokorny, Ruth Jaén, Juli Caujapé, Isabel Sanmartín. **VI Biennial Meeting of the International Biogeography Society**. Miami, FL, USA. Long-distance dispersal or large-scale extinction? Explaining the extreme Rand Flora disjunction in the bellflower genus *Canarina*. Poster (**Mario Mairal**). 9 – 13 Jan.

2012 **Mario Mairal**, Juan José Aldasoro, Marisa Alarcón, Isabel Sanmartín. **FloraMac 2012**. Funchal, Madeira, Portugal. Long-distance dispersal or large-scale extinction? Explaining the extreme Rand Flora disjunction in the bellflower genus *Canarina*. 5 – 8 Sept.

SELECTED FIELD EXPEDITIONS

2020 **Namibia** (Expedition Leader (EL))

2019 **Kalahari & Botswana** (EL)

2018 **Sub-antarctic research Expedition**. Marion Island take-over 2018.

2017 **Morocco** (field assistant), **Madagascar** (EL)

2016 Conservation manager for the **National Avian Research Centre** in 15 nature reserves in the United Arab Emirates.

2016 EL teaching workshops for naturalist guides in the **Neotropics** (Amazon Basin, Cloud forests, island systems): Ecuador, Galapagos Islands, Colombia, Panama and Costa Rica. Dracaena Amazon Explorations.

2010 – 2018 EL of several trips in **Macaronesian archipelagos**: Canary Islands, Cape Verde, Madeira, Moroccan Argan sector. Royal Botanic Garden (RJB) & Canarian Garden Viera & Clavijo.

2005 – 2018 EL & Field assistant of numerous trips in the **Pyrenees Mountains**. University Complutense & RJB.

2014 Expedition Co-Leader (**Switzerland Alps**).

2013 Expedition Co-Leader (**Morocco**).

2012 EL, RJB (**Peru**).

2004 – 2009 Mountain guide and educator in the **Spanish network of National Parks**: Doñana N.P., Ordesa N.P., Cabañeros N.P., Monfragüe N.P., Montes de Valsáin and Andújar Natural Park.

1997 – now. Extensive nature history travels throughout the **Western Palearctic**.

REFEREE & EVALUATING COMMITTEES

Summary: Editor of 3 Journals, reviewer of > 65 JCR manuscripts, 4 panels, 2 International Agencies.

Verified reviewer profile in: <https://publons.com/researcher/1216635/mario-mairal>

2019 – **Member of the Editorial Review Board** of Frontiers in Ecology & Evolution.

2019 – Comité editorial y científico de Conservación Vegetal. Revista SEBICOP (Sociedad Española de Biología de la Conservación de Plantas).

2018 – **Expert Evaluator** of the Spanish Research Agency (Agencia Estatal de Investigación; EVALUA).

2018 – Member of the Scientific Advisor Committee of *Botanica Complutensis*.

2014 – **Reviewer of >65 manuscripts for 22 JCR-indexed journals:** *Alpine Botany*, *Anales del Jardín Botánico de Madrid*, *Annals of Botany*, *Austral Ecology*, *Australian Systematic Botany*, *BMC Ecology*, *Botanical Journal of the Linnean Society*, *Critical Reviews in Plant Sciences*, *Ecology and Evolution*, *European Journal of Phycology*, *Genetica*, *Italian Journal of Zoology*, *Journal of Biogeography*, *New Phytologist*, *Molecular Ecology*, *Plant Biosystems*, *Plant Ecology and Evolution*, *Plant Systematics and Evolution*, *Peer Community in Evolutionary Biology*, *Plos One*, *Scientific Reports*.

2020 **Panel César Gómez Campo Awards 2021**.

2018 – 2019 **Member of the Editorial Review Board** of *Journal of Biogeography*.

2019 **International PhD Evaluator** for Yurena Arjona's PhD.

2019 Panel member of Msc defense at Stellenbosch University.

MEDIA COVERAGE

Europa Press *La Vanguardia* *Investigacion y Ciencia* *Birdlife International* *LIFE+GranCanaria*
Quercus magazine *Agencia SINC* *Canarias 7 newspaper* *Diario del Altoaragón*
Viajedeunnaturalista Blog *El Ojo de Darwin Blog* *Gomeratoday Blog*

SELECTED COURSES

- XIX Curso de botánica práctica “Cienfuegos” sobre flora y vegetación del Moncayo. 29 Jun – 3 Jul 2020.
- Course in Stage-Based Demographic Models (IPMs) in R. Oct. 2019. 8 hours (h).
- Grant Writing Workshop. Stellenbosch University. May 2019. 8 h.
- R programming. Johns Hopkins University (online). April 2014. 40 h.
- Adobe Illustrator – Photoshop CS5 Online. September- November 2013. 40 h.
- Workshop on digital imaging to study biodiversity. GBIF (Global Biodiversity Information Facility). October 2013. 15 h.
- Course on Macro-photography in the countryside. Nikon School Madrid. 10 – 11 September 2013. 20 h.
- Iniciación a la fotografía digital de naturaleza. Junio 2013. 30 h.
- Workshop Ecological Niche Modelling. GBIF (Global Biodiversity Information Facility). Madrid. 28 – 31 May 2013. 23 h.
- Phylogenies and genealogies of DNA: reconstruction and its applications. IRBio-Institut Reserca of Biodiversitat. Barcelona. 3 – 13 July 2012. 70 h.
- Interacciones bióticas en montaña. Su papel en el mantenimiento de la biodiversidad frente a cambios globales. Julio 2011. 20 h.
- Botanical gardens as an educational resource. Real Jardín Botánico. Madrid. April 2008. 22 h.
- XIII Cursillo de flora y vegetación en el Pirineo – CSIC Jaca. July 2008. 50 h.
- I Curso de flora y vegetación de la sierra de Guadarrama. July 2008. 40 h.
- Iniciación al estudio de las aves Canarias. Nov. 2006. 15 h.
- X Cursillo de flora y vegetación en el Pirineo – CSIC Jaca. July 2005. 50h.
- Técnicas de estudio en campo de gato montés y lobo Ibérico. March 2004. 20 h.

LANGUAGES

- Spanish (mother tongue), English (Excellent level), French (basic).

PROFESSIONAL SERVICES & OTHER ACTIVITIES

- 2020 – Member of the **SEBOT Systematics Working Group**. Organiser of citizen science & dissemination activities.
- 2019 – Member of the **SEBICOP working group**. Dissemination activities.
- 2017 **Curated Photo Exhibits**. I am deeply interested in the intersection of the rational and creative (science and art). My photographic work focused on biodiversity has been included in several curated exhibits (see: <https://mariomairal.com/expeditions-photo-galleries/>).
- 2010 – 2019 I have deposited material from several scientific expeditions (> **2000 herbaria specimens**) in Spanish herbaria (Royal Botanical Garden of Madrid, Botanic Institute of Barcelona, Canary Garden Viera and Clavijo), as well as in international institutes (Lausanne University, Charles University, Sub-Antarctic Marion research base)
- 2017 Organiser and speaker in scientific seminars for population ecology at Charles University.
- 2010 – 2015 Organiser and speaker in scientific seminars for systematics and evolution in the Real Jardín Botánico, Department of Biodiversity and Conservation.

Member of:

- IBS (International Biogeography Society)
- SEBICOP (Spanish Society for Plant Conservation Biology)
- SEBOT (Spanish Society of Botany)
- ACBC (Association for the conservation of Canarian Biodiversity)
- SESBE (Spanish Society for Evolutionary Biology)

- Present or past member of several conservation organisations: Cape Bird Club, SEO/BirdLife, WWF/Adena, Society for Biodiversity and Conservation- GAIA.

SELECTED COLLABORATORS (in alphabetical order)

- Dr. **Álvarez**, Nadir – Natural History Museum of Genève (Genève, Switzerland)
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