CARLOS LARA-ROMERO
Curriculum vitae. April 2025

PERSONAL INFORMATION

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SUMMARY

I am a plant ecologist with a strong interest on how global change drivers affect evolutionary processes in plants. I combine different approaches and disciplines including, among others, population genetics and genomics, spatial statistics, ecophysiology, and network analyses. I obtained my PhD at Rey Juan Carlos University in 2014. During my PhD, I studied the contribution of biotic interactions, dispersal and adaptive genetic diversity to the success of plant populations under ongoing global warming. At this stage, I interned in internationally recognized research teams in Switzerland (ETH Zurich), Portugal (CIBIO/InBIO) and Sweden (Uppsala University). The papers resulting from my PhD were published in high impact journals (e.g., Lara-Romero *et al.* 2016 Funct. Ecol, Lara-Romero *et al.* 2016 Heredity). After my PhD, I carried out my first post-doctoral stay in the group of Plant Ecological Genetics (ETH Zürich, Switzerland). During this stay, funded by the European Science Foundation, I developed research focused on the search for genomic signals for evolutionary adaptation (Sacristán *et al*. 2019 Plant Genet Resour). My second post-doc brought me to Ecuador where I worked in the Group of Ecology and Systematics at the UTPL. My studies of plant interactions published during this period allow me to get further insight on the topics covered in my PhD (Lara-Romero et al. 2016 Oikos, Lara-Romero et al. 2017 Perspect. Plant. Ecol. Syst.). During my third post-doc as Juan de la Cierva Formación in the IMEDEA-CSIC (Mallorca, Spain), I delved into the use of network analyses to investigate the effects of environmental variation and plant phenology on the structure and evolution of ecological interactions and population dynamics (Morente-López et al. 2018 Sci. Rep, Morente-López et al. 2020 Environ. Exp. Bot, Lara-Romero et al. 2019 J. Biogeogr). In 2018, I gained a Jose Castillejo Fellowship to undertake a research stay at INRA-Bordeaux (France). I started an ongoing collaboration to implement a suite of statistical approaches to identify adaptive genetic variation in non-model plant species (Lara-Romero et al 2022 Ann Bot). During my next postdoctoral experience at the University of Alcalá (UAH) I studied the expansion dynamics of non-native forest species in Spain and detected the main biotic, abiotic and anthropogenic drivers of their expansion (Lara-Romero et al 2022 J. Veg. Sci. and Lázaro-Lobo et al 2022 For. Ecol. Manag.). In the year 2021 I obtained a Juan de la Cierva Incorporation contract whose objective is to consolidate the research career of outstanding young researchers. I applied my multidisciplinary knowledge and theoretical background to understand the genetic mechanisms underlying responses of organisms to rapidly changing environments (e.g., Morente-López, Lara-Romero et al 2021 J Ecol; Morente-López et al 2022 Glob Chang Biol). Currently, I am Lecturer in Botany in URJC and led a research group with two ongoing competitive projects. During my research career, I have taken a leadership role in research projects funded by the H2020-EU programme and the Spanish National Plan for RD&I. I have a total of 31 months of experience working in worldwide recognized research centres. Most of my former research positions were funded through competitive calls involving formal research project proposals (total funding ca. 770 k€). I have been involved in different evaluation activities as jury member in PhD dissertations, and as regular reviewer for scientific journals. I am a subject editor of the journals Plant Biology (IF: 3.9) and Mediterranean Botany (IF: 1.0). I have more than ten years of teaching experience at the graduate and postgraduate level in four different institutions. I have supervised

graduate and undergraduate students in research resulting in publications in prestigious journals. I have a strong commitment with open science and dissemination and technology transfer activities.

EDUCATION

Ph.D. in Natural Resources Conservation, Universidad Rey Juan Carlos (URJC, Spain), 2014*

*Extraordinary Award for Ph.D., URJC, Spain, 2017.

M.S. in Science and Environmental Technology, URJC, Spain, 2009

B.S. in Environmental Science, URJC, Spain, 2008

POSITIONS HELD

2023-Current. **Lecturer in Botany**, Biodiversity and Conservation Area, Rey Juan Carlos University (URJC), Madrid, Spain.

2022. **Lecturer in Botany**, Faculty of Pharmacy - Section of Botany, Complutense University of Madrid (UCM), Spain.

2021- 2022. **Juan de la Cierva Incorporacióin Fellow**, Biodiversity and Conservation Area, Rey Juan Carlos University (URJC), Madrid, Spain.

2020-2021. **Postdoctoral researcher,** Group of Biological Invasions. Life Science Department, University of Alcalá (UAH), Madrid, Spain.

2019. **Postdoctoral researcher,** Biodiversity and Conservation Area, URJC, Madrid, Spain.

2017- 2019. **Postdoctoral research fellow (Juan de la Cierva Formación)**, Mediterranean Institute for Advanced Studies (IMEDEA), Spanish National Research Council (CSIC), Balearic Island, Spain.

2016. **post-doctoral lecturer,** Technical Particular University of Loja (UTPL), Natural Science Department, Ecuador.

2015. **Visiting postdoctoral researcher** (ESF Grant), Swiss Federal Institutes of Technology (ETH), Zurich, Switzerland.

2010-2014. **Predoctoral research fellow (FPI),** Biodiversity and Conservation Area, URJC, Madrid, Spain.

2007-2008. **Assistant Scholar**, Biodiversity and Conservation Area, URJC, Madrid.

STAYS IN RESEARCH CENTRES

1. May 2022 – Aug 2022 (4 months, postdoctoral). **French National Research Institute for Agriculture, Food, and the Environment (INRAE), BIOGECO Research Unit, Bordeaux** (with Santiago González-Martinez).
2. Sept 2018 – Apr 2019 (8 months, postdoctoral). **INRAE, BIOGECO Research Unit, France** (with Santiago González-Martinez).

   Relevant results: Lara-Romero C; González-Martínez SC, Irondo JM 2021. Assessing diversity patterns of potential adaptive value in Alpine plants. Manuscript under preparation
3. Feb 2014 – April 2014 (3 months, predoctoral). **Research Center in Biodiversity and Genetic Resources** (**CIBIO/InBio**), **Portugal** (with Cristina Garcia).

   Relevant results: Lara-Romero et al 2016. Functional Ecology, 30: 1521-1530.
4. Oct 2012 – Dic 2012

5. (3 months, predoctoral). **Swiss Federal Institutes of Technology (ETH)**, Institute of Integrative Biology, **Zurich**, **Switzerland** (with Alex Widmer).

   Relevant results: Lara-Romero et al 2016. Heredity, 116: 417-423.

6. Nov 2012 - Dic 2012. (2 months, predoctoral). Evolutionary biology Center, **Uppsala University**, **Sweden** (with Jon Agren).

   Relevant results: Lara-Romero et al 2014. Bot J Linn Soc, 176: 284 - 395.

7. Oct 2011 – Dic 2011 (3 months, predoctoral). **Swiss Federal Institutes of Technology** (**ETH**), Institute of Integrative Biology, **Zurich, Switzerland** (with Alex Widmer).

   Relevant results: García-Fernández et al 2012. American Journal of Botany, 99: 292 - 294.

RESEARCH & INNOVATION PROJECTS

- Seguimiento del Estado de Conservación en España de las Especies de Flora Autóctona Protegida (2024/SART60-130200). Fundación Universidad Autonoma de Madrid. PI: A. García-Fernández. Duration: 2024-2025. Budget: 896 €.
- Crop Wild Relatives utilisation and conservation for sustainable agriculture (COUSIN: 101135314). European commission Programme HORIZON-CL6-2023-BIODIV-01. PIs: Christian Schöb. Duration: 2024-2029. Budget: 675192, 5 €.
- Development of the Spanish Strategy for the Conservation of Crop wild Relatives and Wild Plants for Food Use (202205000049). Spanish Ministry of Agriculture, Fisheries and Food. PIs: **Carlos Lara-Romero** & José Iriondo. Duration: 2023-2026. Budget: 175618 €.
- Drought adaptation in Crop Wild Relatives: an integrative approach (DACWIRE: PID2021-127841OA). *Spanish National R&D&I Plan.* PIs: **Carlos Lara-Romero**, Alfredo García-Fernández. Duration: 2022-2026. Budget: 176600 €
- Extension of EURISCO for Crop Wild Relatives (CWR) in situ data and preparation of pilot countries' data sets (L21ROM198). *International Plant Genetic Resources Institute (Bioversity International)*. PIs: **Carlos Lara-Romero**, José Iriondo. Duration: 2022-2023. Budget: 15000 €.
- Diversity of biotic interactions and their role in the ecosystem functioning of forest restorations. (TED2021-132053B-I00). *Spanish National R&D&I Plan).* PI: Ana García-Cervigón, Isabel Martínez. Duration: 2022-2024. Budget: 225300 €.
- Translocations of flora and fauna for conservation and restoration: ecological, evolutionary, and socio-economic impacts at multiple scales (TRANSLOC: PCI2022-132977). *BiodivERsA-plus (European Biodiversity Partnership).* PI: Alfredo García-Fernández. Duration: 2022-2025. Budget (Spain - Work Package): 55999
- INTERaction Variation along ALtitudinal gradients (sINTERVAL). *Deutsche Forschungsgemeinschaft* (German Research Society). PI: Tiffany Knight. Duration: 2021-2023. Budget: 44230 €
- Determinants of the success of exotic trees across different invasion stages (EXARBIN: RTI2018-093504-B-100). *Spanish National R&D&I Plan*. PI: Pilar Castro. Duration: 2019 – 2021. Budget: 102805 €.
- Effects of global change on small island trophic meta-networks (ISLET-FOODWEBS: CGL2017-88122-P). *Spanish National R&D&I Plan*. PI: Anna Traveset. Duration: 2018 – 2020. Budget: 193600 €.
- Assisted evolution of flowering time as a response to climate change (EVA: CGL2016-77377). *Spanish National R&D&I Plan*. PI: Jose Iriondo. Duration: 2017 – 2020. Budget: 165 000 €.

- Networking, partnerships and tools to enhance in situ conservation of European plant genetic resources (Farmer's Pride: 774271). *EU's H2020 programme*. PI: Jose Iriondo. Duration: 2017 – 2020 Budget (Spain - Work Package): 202050 €.
- Functional connectivity and green infrastructure. (FunGreen: PCIN-2016-077). ERA-NET BiodivERsA. *EU's H2020 Programme*. PI: Anna Traveset. Duration: 2016 – 2019. Budget (Spain - Work Package): 148500 €.
- Local adaptation in high-mountain plants: an integrated perspective (AdAptA:CGL2012-44528). *Spanish National R&D&I Plan*. PI: José Iriondo. Duration: 2013 – 2016. Budget: 112000 €.
- Modelos y Análisis demográficos para la evaluación de la persistencia y propuestas de manejo de especies leñosas con sus usos maderables y no maderables de las regiones montañosas secas de Ecuador. *Technical Particular University of Loja*, Ecuador. PI: E. Gusman. Duration: 2014 – 2015. Budget: 13770 €.
- Who dispersers who? Size-related properties of plant-frugivore interactions in the Tumbesian dry forest. *Technical Particular University of Loja*, Ecuador. PI: Gema Escribano. Duration: 2015. Budget: 2500 €.
- Determinants of distribution limits of high-mountain plants and expected responses to global change (LIMITES: CGL2009-07229). *Spanish National R&D&I Plan*. PI: José Iriondo Duration: 2010 – 2014. Total amount: 95000 €.
- Calidad del hábitat, conservación del nicho y conservación de mamíferos en un mundo cambiante (CALCOFIS: CGL2009-13013). *Spanish National R&D&I Plan*. PI: Emilio Virgós. Duration: 2010-2012. Budget: 136730 €.
- An Integrated European in Situ Management Work plan: Implementing Genetic Reserves and On Farm Concepts (AGRI GENRES 057: AEGRO). *European Comission*. PI: Jose Iriondo. Duration: 2007-2010. Budget (Spain - Work Package): 67196 €
- Efectos de los cambios en los usos del suelo y el clima en la distribución, abundancia y eficacia biológica de tres especies de hábitats templados en el mediterráneo (CGL2005-07681). *Spanish National R&D&I Plan*. PI: Emilio Virgós. Duration: 2006-2008. Budget: 33320 €.

PUBLICATIONS

Citations: 1061, H-Index: 19, i10-index: 31 (as of Google Scholar in March 2025)

* Corresponding author

Articles in peer-reviewed journals

1. Sacristán-Bajo, S; **Lara-Romero, C*;** García-Fernández, A; Prieto-Benitez, S; Morente-López, J; Rubio Teso ML; Torres, E; Iriondo, JM. 2025. Assisted gene flow management to climate change in the annual legume *Lupinus angustifolius* L.: from phenotype to genotype. *Evolutionary Applications,* 18, e70087. JIF: 3.5 (14/54, Evolutionary Biology, Q2). https://hdl.handle.net/10115/79337
2. Lanuza, JB; Knight, TM; Montes-Pérez N; […]; Lara-Romero, C; […]; Bartomeus, I. (54/115) 2025. EuPPollNet: A European database of plant-pollinator networks. *Global Ecology and Biogeography* 34:e70000. JIF: 6.3 (12/197, Ecology, D1).
3. Traveset, A; **Lara-Romero, C***; Santamaría, S; Escribano-Ávila, G; Bullock, JM; Honnay, O; Hooftman, AP; Kimberley, A; Crickl, P; Plue,J; Poschlod, P; Cousins, SAO. 2024. Effect of green infrastructure on restoration of pollination networks and plant performance in semi-natural dry

grasslands across Europe. *Journal of Applied Ecology,* 61, 1015-1028. JIF: 5.0 (6/74, Biodiversity Conservation, D1; 24/195 Ecology, Q1). https://hdl.handle.net/10115/36893

4. García, Y; Giménez-Benavides, L; Iriondo, JM; **Lara-Romero, C***; Méndez, M; Morente-López, J; Santamaría, S. 2024. Addition of nocturnal pollinators modifies the structure of pollination networks. *Scientific Reports,* 14:1226. JIF: 3.8 (25/134, Multidisciplinary Science, Q1). https://hdl.handle.net/10115/28496
5. Poyatos, C; Sacristán-Bajo, S; Tabarés, P; Prieto-Benitez, S; Rubio Teso, ML; Torres, E; Morente-López, J; **Lara-Romero, C**; Iriondo, JM; García-Fernández, A. 2023. Differential patterns of within- and between-population genetically-based trait variation in *Lupinus antustifolius*. *Annals of Botany*, 23, 541-552. JIF: 3.6 (56/265, Plant Science, Q1). https://hdl.handle.net/10115/26795
6. Torres, E; García-Fernández, A; Iñigo, D; **Lara-Romero, C**; Morente-López, J; Prieto-Benitez, S; Rubio-Teso, ML; Iriondo, JM. 2023. Facilitated adaptation as a conservation tool in the present climate change context: a methodological approach. *Plants,* 12: 1258. JIF: 4.0 (46/265, Plant Science, Q1). https://hdl.handle.net/10115/26689
7. Sacristán-Bajo, S; García-Fernández, A; **Lara-Romero, C**; Prieto-Benitez, S; Tabarés, P; Morente-López, J; Rubio Teso ML; Alameda-Martín, A; Torres, E; Iriondo, JM. 2023. Population origin determines the adaptive potential for the advancement of flowering onset in *Lupinus angustifolius* L. (Fabaceae)**.** *Evolutionary Applications,* 16: 62-73. JIF: 3.5 (14/54, Evolutionary Biology, Q2). https://hdl.handle.net/10115/26690
8. Bartomeus, I; Lanuz, JB; Woods, TJ; [...] **Lara-Romero, C**; et al. 2022. Iberian bees dataset. *Ecosistemas*, 31:2380. JIF: 0.7 (162/190, Ecology, Q4). https://hdl.handle.net/10481/81632
9. **Lara-Romero, C***; Ruiz-Benito, P; Castro-Díez, P. 2022. Functional traits and propagule pressure explain changes in the distribution and demography of non-native trees in Spain. *Journal of Vegetation Science, 33: e13131.* JIF: 2.8 (19/69, Forestry, Q2). https://hdl.handle.net/10115/24354
10. Morente-López, J; Kass, J; **Lara-Romero, C**; Serra-Díaz, P; Soto-Correa, JC; Anderson, R; Iriondo, JM 2022. Linking ecological niche models and common garden experiments to predict phenotypic differentiation in stressful environments: assessing the adaptive value of marginal populations in an alpine plant. *Global Change Biology, 28*: 4143-4162**.** JIF: 11.6 (1/65, Biodiversity Conservation, D1; 4/169 Ecology, D1). https://hdl.handle.net/10115/26538
11. Morán-López, T; Benadi, G; **Lara-Romero, C**; Chacoff, N; Vitali, A; Pescador, D; Lomascolo, SB; Morente-López, J; Vázquez, DP; Morales, JM. 2022. Flexible diets enable pollinators to cope with changes in plant community composition. *Journal of Ecology*, 110: 1913-1927. JIF: 5.5 (28/238, Plant Science, Q1; 22/169, Ecology Q1). http://hdl.handle.net/11336/209843
12. Lázaro-Lobo, A; Ruiz-Benito, P; **Lara-Romero, C**; Castro-Díez, P. 2022. Biotic, abiotic, and anthropogenic drivers of demographic performance of non-native Eucalyptus and Pinus species in forested areas of Spain. *Forest Ecology and Management*, 15:120111. JIF: 3.7 (8/69, Forestry, Q1). http://hdl.handle.net/10017/50906
13. Rubio Teso, ML**; Lara-Romero, C**; Rubiales, D; Parra-Quijano, M; Iriondo, JM 2022. Searching for abiotic tolerant and biotic stress resistant wild lentils for introgression breeding through predictive characterization. *Frontiers in Plant Science* 13:817849. JIF: 5.6 (27/238, Plant Science, Q1). https://hdl.handle.net/10115/30728
14. Morente-López, J; **Lara-Romero, C**; Garcia-Fernádez, A; Rubio-Teso, ML; Prieto-Benítez, S; Iriondo, JM. 2021. Gene flow effects on populations inhabiting marginal areas: origin matters. *Journal of Ecology*, 109: 139-153. JIF: 6.38 (21/279, Plant Science, D1; 23/174, Ecology Q1). https://hdl.handle.net/10115/26537

15. Prieto-Benítez, S; Morente-López, J; Rubio Teso, M; **Lara-Romero, C**; Garcia-Fernádez, A; Rubio-Teso, ML; Torres, E; Iriondo, JM. 2021. Evaluating assisted gene flow in marginal populations of a high mountain species. *Frontiers in Ecology and Evolution,* 9: 638837*.* JIF: 4.493 (45/173, Ecology, Q2).
16. Rubio Teso, MLR; Álvarez-Muñiz, C; Gaisberger, H; Kell, S; **Lara-Romero, C**; Brehm, J M; Iriondo, JM 2021. Crop wild relative conservation in the Natura 2000 network. *Crop wild relative* 13: 19-22.
17. Morente-López, J; **Lara-Romero, C**; Garcia-Fernádez, A; Rubio Teso, M; Prieto-Benítez, S; Iriondo, JM. 2021. Marginal areas in alpine ecosystems: definition and evolutionary value in a context of climate change. *Ecosistemas*, 30: 2178*.* JIF: 0.7 (163/192, Ecology, Q4).
18. Escribano-Ávila, G.; **Lara-Romero, C**.; García-Fernandez, A.; Pons, S.; Traveset, A. (2021). ¿ Camino de la extinción local? Efectos derivados de la pérdida de dispersores en la estructura genética, espacial y sus consecuencias para la persistencia de *Cneorum tricoccon* en Menorca. *Revista de Menorca*, 101, 10-20.
19. Morente-López, J; Scheepens, J.F; **Lara-Romero, C**; Ruiz-Checa, R; Tabarés, P; Iriondo JM. 2020. Past selection shaped phenological differentiation among populations at contrasting elevations in a Mediterranean alpine plant. *Environmental and Experimental Botany*, 170: 103894. JIF: 5.545 (20/235, Plant Science, D1). https://hdl.handle.net/10115/26539
20. **Lara-Romero, C ***; Seguí, J; Pérez-Delgado, A; Nogales, M; Traveset, A. 2019. Beta diversity and specialization in plant-pollinator networks along an elevational gradient. *Journal of Biogeography*, 46: 1598-1610. JIF: 3.732 (35/168, Ecology, Q1). https://hdl.handle.net/10115/26535
21. Naranjo, C; Iriondo, JM; Riofrío, M; **Lara-Romero, C***. 2019. Evaluating the structure of commensalistic epiphyte–phorophyte networks. A comparative perspective of biotic interactions. *AoB Plants*, 11, plz011. JIF: 2.182 (81/168, Ecology, Q2). https://hdl.handle.net/10115/26532
22. Horcajada-Sánchez F; Escribano-Ávila G; **Lara-Romero C**; Virgós E; Barja I. 2019. The effect of livestock on the physiological condition of roe deer, *Capreolus capreolus* (Artiodactyla: Cervidae) is modulated by habitat quality. *Scientific Reports***,** 9: 15953**.** JIF: 3.998 (17/71, Multidisciplinary Science, Q1).
23. Sacristán-Bajo, S; García-Fernández, A; Iriondo, J; **Lara-Romero, C***. 2019. Transcriptome assembly and polymorphism detection in *Silene ciliata* (Caryophyllaceae). *Plant Genetic Resources***,** 17:452-455. JIF: 0.869 (179/234, Plant Sciences, Q4). http://hdl.handle.net/10261/204527
24. Morente-López, J; **Lara-Romero, C**[*#]; Ornosa, C; Iriondo, J.M. 2018. Phenology drives species interactions and modularity in a plant - flower visitor network**.** *Scientific Reports*, 8, pp. 9386. JIF: 4.011 (15/69, Multidisciplinary Science, Q1). https://hdl.handle.net/10115/26536

 # J. Morente-López and C. Lara-Romero contributed equally to this publication.

25. Morente-López, J; García, C**; Lara-Romero, C**; García-Fernández, A; Draper, D; Iriondo, J. 2018 Geography and environment shapes landscape genetics of Mediterranean alpine species *Silene ciliata* Poiret. (Caryophyllaceae). *Frontiers in Plant Science*, 9:1698. JIF: 4.106 (20/228, Plant Science, D1). https://hdl.handle.net/10115/27229
26. Iglesias-Merchan, C; Horcajada-Sánchez, F; Diaz-Balteiro, L; Escribano-Ávila, G; Lara-Romero, C; et al. 2018. A new large-scale index (AcED) for assessing traffic noise disturbance on wildlife: stress response in a roe deer (*Capreolus capreolus*) population. *Environmental monitoring and assessment*, 190, 185. JIF: 1.959 (142/252, Environmental Science, Q3).

27. Giménez-Benavides*, L; Escudero, A; García-Camacho, R; García-Fernández, A; Iriondo, J**;** **Lara-Romero**, C; Morente, J. 2018. How does climate change affect regeneration of Mediterranean mountain plants? An integration and synthesis of current knowledge. *Plant Biology*, 20: 50-62. JIF: 2.393 (68/228, Plant Science, Q2).
28. **Lara-Romero, C**[*]; Gusman, E; Ramón, P; Velez, D; Espinosa, CI. 2017. Does size matter? Ontogenetic responses of an Andean shrub to conspecific density-dependence. *Pespectives in plant Ecology, Evolution & Systematics (PPES)*, 25: 59-67. JIF: 2.82 (48/223, Plant Science, Q1). https://hdl.handle.net/10115/26540
29. **Lara-Romero, C*.** 2017. Adjustment, interpretation and presentation of linear models: p-value is not enough*. Ecosistemas* 26: 64-66*.* JIF: 0.7 (163/192, Ecology, Q4).
30. **Lara-Romero, C**[*]; García, C; Morente-López, J; Iriondo, J.M. 2016. Direct and indirect effects of shrub encroachment on alpine grasslands mediated by plant-pollinator interactions. *Functional Ecology*, 30: 1521–1530. JIF: 5.63 (14/153, Ecology, D1). https://hdl.handle.net/10115/30720
31. **Lara-Romero, C**[*]; de la Cruz, M; Escribano-Ávila, G; García-Fernández, A; Iriondo, JM. 2016. What causes conspecific plant aggregation? What causes conspecific plant aggregation? Disentangling the role of dispersal, habitat heterogeneity and plant–plant interactions. *Oikos*, 125: 1304–1313. JIF: 4.03 (32/153, Ecology, Q1). https://hdl.handle.net/10115/30721
32. **Lara-Romero, C**[*]; García-Fernández, A; Robledo-Arnuncio, J.J.; Roumet, M; Morente-López, J; López-Gil, A; Iriondo, J.M. 2016. Individual spatial aggregation correlates with between-population variation in fine-scale genetic structure of *Silene ciliata* (Caryophyllaceae). *Heredity*, 116: 417-423. JIF: 3.961 (34/153, Ecology, Q1). https://hdl.handle.net/10115/30722
33. García-Fernández, A[*]; Escudero, A.; **Lara-Romero, C**; Iriondo, J.M. 2015. Effects of the duration of cold stratification on early life stages of the Mediterranean alpine plant *Silene ciliata. Plant Biology* 17: 344-350. JIF: 2.216 (60/209, Plant Science, Q2).
34. **Lara-Romero, C**[*]; Garcia-Camacho, R; Escudero, A; Iriondo, J.M. 2014. Genetic variation in flowering phenology and reproductive performance in a Mediterranean high-mountain specialist, Armeria caespitosa (Plumbaginaceae). *Botanical Journal of the Linnean Society* 176: 284-395. JIF: 2.534 (54/204, Plant Science, Q2).
35. **Lara-Romero, C**[*]; Robledo-Arnuncio, JJ; García-Fernández, A; IriondoJ.M. 2014. Assessing intraspecific variation in effective dispersal along an altitudinal gradient: a test in two Mediterranean high-mountain plants. *Plos One* 9: e87189. JIF: 3.234 (9/57, Multidisciplinary Sciences, Q1).
36. Isabel C. Barrio[*], C. Guillermo Bueno, Laszlo Nagy, Sara Palacio, Oriol Grau, Ignacio Munilla, Maria Begoña Garcia, Ana I. Garcia-Cervigon, Maite Gartzia, Antonio Gazol, Carlos **Lara-Romero** et al,. 2013. Alpine ecology in the Iberian Peninsula: what do we know and where should we go? *Mountain Research and Development (MRD)* 33: 437-442. JIF: 0.989 (163/216, Environmental Sciences, Q4).
37. Escribano-Avila, G[*]; Pettorelli, N; Virgós, E; **Lara-Romero, C**; Lozano, J; Barja, I; Salas, F; Puerta, M. 2013. Testing Cort-Fitness and Cort-Adaptation hypotheses in a habitat suitability gradient for roe deer. *Acta Oecologica* 53: 38-48. JIF: 1.841 (74/141, Ecology, Q3).
38. García-Fernández, A[*]; **Lara-Romero, C**; Segarra-Moragues, J.J; Iriondo, J.M; Widmer, A; Escudero, A. 2012. Characterization of microsatellites in the mountain plant Armeria caespitosa (Plumbaginaceae) and transferability to congeners. *American Journal of Botany* 99: 292-294. JIF: 2.586 (47/197, Plant Science, Q1).

39. **Lara-Romero, C**[*]; Virgós, E; Revilla, E. 2012. Sett density as an estimator of population density in the European badger (*Meles meles*)[#]. *Mammal Review* 42: 78-84. JIF: 3.424 (4/151, Zoology, D1).

[#]Article selected for the Special Issue of Mammal Review on the occasion of the 75th Anniversary of The Wildlife Society.

40. **Lara-Romero, C**[*]; Virgós, E; Escribano, G; Mangas, J. G; Mangas, J. G; Pardavila, X. 2012. Habitat selection by European badgers in mediterranean semi-arid ecosystems. *Journal of Arid Environments* 76: 43-48. JIF: 1.772 (104/210, Environmental Sciences, Q2).
41. Barja, I[*]; Escribano, G; **Lara-Romero, C**; Virgós, E. 2012. Non-invasive monitoring of adrenocortical activity in European badgers (Meles meles) and effects of sample collection and conservation on concentrations of faecal cortisol. *Animal Biology* 62: 419-432. JIF: 0.767 (101/151, Zoology, Q3).
42. Escudero, A; García-Camacho, R; García Fernández, A; Gavilán, R. G.; Giménez-Benavides, L; Iriondo, J.M.; **Lara-Romero, C**.; Morente, J; Pescador, D. S. 2012. Vulnerability to global change in Mediterranean high mountains plants. *Ecosistemas* 21: 63-72. CiteScore 0.4 (266/310, Ecology, Q4).
43. Iriondo, J.M.; Parra-Quijano, M.; **Lara-Romero, C**.; Carreño, F.; Maxted, N.; Kell, S.; Ford-Lloyd, B.V. 2012. Where and how? Genetic reserve site selection and development of common quality standards. **Crop Wild Relatives** 8: 33-35.
44. **Carlos Lara-Romero***; Isabel Barja; Emilio Virgós; Gema Escribano-Ávila. Evaluating adrenal activity and effects related with the collection and conservation of faecal samples to understand the physiological stress responses of wild European badgers. *Comparative Biochemistry and Physiology, Part A***.** 153, pp. S63. 2009. JIF: 2.196 (14/129, Zoology, Q1).

Book chapters

45. J. Serapio; M Vicens; **C. Lara-Romero**; JM Iriondo. 2019. *Allium grosii* Font Quer. In: Atlas y Libro Rojo de la Flora Vascular Amenazada de España - Adenda 2017. pp. 82 - 83. Ministerio para la Transición Ecológica- Sociedad Española de Biología de la Conservación de Plantas. Madrid, Spain.
46. JM Iriondo; R. Rebolé; **C. Lara-Romero**; ML Rubio; A. García-Fernández. 2019. *Erodium paularense* Fern. Gonz. & Izco. In: Atlas y Libro Rojo de la Flora Vascular Amenazada de España - Adenda 2017. pp. 52 - 53. Ministerio para la Transición Ecológica- Sociedad Española de Biología de la Conservación de Plantas. Madrid, Spain.
47. A. García-Fernández; R. Rebolé; **C. Lara-Romero**; S. Prieto; JM Iriondo. 2019. *Ranunculus parnassifolius* L. In: Atlas y Libro Rojo de la Flora Vascular Amenazada de España - Adenda 2017. pp. 136 - 137. Ministerio para la Transición Ecológica- Sociedad Española de Biología de la Conservación de Plantas. Madrid, Spain.
48. Escribano-Ávila, G; **Lara-Romero, C**; Heleno, R; Traveset, A. 2018. Seed dispersal Networks in the Tropics. pp. 93 – 110. In: Ecological Networks in the Tropics. Springer, Berlin, Germany.
49. Escudero, A; García-Camacho, R. García Fernández, A; Giménez-Benavides, L; Iriondo, JM; **Lara-Romero**, C; Morente, J & Pescador, DS. 2015. *Vulnerabilidad al cambio climático de las plantas de alta montaña mediterránea*. In: Los bosques y la biodiversidad frente al cambio climático: impactos, vulnerabilidad y adaptación en España. Spanish Ministry of Agriculture and Environment, Madrid, Spain.
50. Iriondo, J.M.; Maxted, N.; Kell, S.; Ford-Lloyd, B. & **Lara-Romero, C**, Labokas, J. Brehm, M. 2012. *Identifying quality standards for genetic reserve conservation of CWR*. In:

Agrobiodiversity Conservation: Securing the diversity of Crop Wild Relatives and Landraces. CABI BOOKS, London, UK.

Scientific Reports

51. Iriondo, M; Molina, A; Torres, E; Rubio, ML, Asens, G; **Lara-Romero, C**; Cuadra, D. 2023. Extension of EURISCO for Crop Wild Relatives (CWR) in situ data and preparation of pilot countries' data sets: Spain. Final Technical Report. Agreement no. L21ROM198. https://www.ecpgr.cgiar.org/working-groups/crop-wild-relatives/cwr-in-eurisco
52. Rubio Teso, M.L., Álvarez Muñiz, C., Gaisberger, H., Kell, S.P., **Lara-Romero, C**., Magos Brehm, J., Maxted, N., Philips, J. and Iriondo, J.M. 2021. European crop wild relative diversity: towards the development of a complementary conservation strategy. Farmer's Pride Project. H2020 Framework Programme of the UE. https://more.bham.ac.uk/farmerspride/wp-content/uploads/sites/19/2021/11/D4.3_CWR_network_design.pdf
53. Rubio Teso, M.L.; Álvarez Muñiz, C.; Gaisberger, H.; Kell, S.; **Lara-Romero, C**.; Magos Brehm, J.; Maxted, N.; Iriondo, J.M. 2020. In situ plant genetic resources in Europe: crop wild relatives. Farmer's Pride Project. H2020 Framework Programme of the UE. https://hdl.handle.net/10568/110921
54. Rubio Teso, M. L.; Álvarez Muñiz, C.; Gaisberger, H.; Kell, S.; **Lara-Romero, C**.; Magos-Brehm, J.; Maxted, N.; Iriondo, J. 2020. Crop wild relatives in Natura 2000 Network. Farmer's Pride Project. H2020 Framework Programme of the UE. https://hdl.handle.net/10568/110717

Popular science articles

55. Méndez, M*; Giménez-Benavides, L; Iriondo, JM**; Lara-Romero, C**; Matesanz, S; Sacristán, S; Torices, R. 2021. La reunión del Grupo de Trabajo sobre Biología Floral (ECOFLOR) alcanza la mayoría de edad. **Ecosistemas** 30: 2264.
56. **Lara-Romero, C***., Escribano-Ávila, G., Galeano, J., García-Verdugo, C., Iriondo, J.M., Lázaro, A., Picó, X., Santamaría, S., Seguí, J., Traveset, A. 2018. XV Reunión científica anual de ECOFLOR. **Ecosistemas** 27: 132-133.
57. Vicente, R; Carmen, M.A; **Lara-Romero, C**; Iriondo, J.M.; García-Fernández, A. 2017. Restitución de poblaciones como herramienta de conservación en España. **Conservación Vegetal**, 21: 1-4.
58. **Lara-Romero C.;** Virgós, E.; Mangas, J. G.; Barja, I.; Escribano, G. Tejones y hombres, bajo el mismo sol. Quercus, 278. Abril 2009.

GenBank (NCBI) Publications & Sequence Deposits

59. Data type: Microsatellite sequences (19 accessions). Organism: *Armeria caespitosa.* *https://www.ncbi.nlm.nih.gov/nuccore/term=txid71847[Organism:noexp]*
60. Bioproject accesion: PRJNA528948. Data type: Transcriptome (9 accessions). Organism: *Silene ciliata*. https://www.ncbi.nlm.nih.gov/bioproject/528948
61. Bioproject accesion: PRJNA851086. Data type: Raw sequece reads (96 accessions). Organism: *Silene ciliata*. https://www.ncbi.nlm.nih.gov/bioproject/?term=PRJNA851086
62. Project accession: PRJEB86047. Data type: SNP genotyping data in VCF format. Organism: *Lupinus angustifolius*. https://www.ebi.ac.uk/ena/browser/view/PRJEB86047

Public datasets acquired during my research activity

Usage metrics: 4743 item views, 1062 item downloads (September, 2023).

1. Lara-Romero, C et al. (2014) Assessing Intraspecific Variation in Effective Dispersal Along an Altitudinal Gradient: A Test in Two Mediterranean High-Mountain Plants. PLoS ONE. Dataset: BURJC-Digital, 10.6084/m9.figshare.7756538.v1
2. Lara-Romero, C et al. (2016) Direct and Indirect effects of shrub encroachment on alpine grasslands mediated by plant-flower visitor interactions. Functional Ecology. Dataset: Dryad Digital Repository: 10.5061/dryad.p869n
3. Lara-Romero, C et al. 2016 Individual spatial aggregation correlates with between-popualtion variation in fine-scale genetic structure of Silene ciliata (Caryophyllaceae). Heredity. Dataset: Figshare, 10.6084/m9.figshare.7756529.v1
4. Lara-Romero, C et al 2018. Beta diversity and specialization in plant-pollinator networks along an elevational gradient. Dataset: Figshare, 10.6084/m9.figshare.6814781.v1
5. Lara-Romero, C et al 2019.Evaluating the structure of commensalistic epiphyte–phorophyte networks. A comparative perspective of biotic interactions. AoB Plants. Dataset: Figshare: 10.6084/m9.figshare.7751189.v1
6. Horcajada, Fernando; Escribano-Ávila, Gema; Lara-Romero, Carlos; Virgós, Emilio; Barja, Isabel (2019): The effect of livestock on the physiological condition of roe deer (Capreolus capreolus) is modulated by habitat quality. figshare. Dataset. 10.6084/m9.figshare.9963065.v1
7. Morente-López, J; Lara-Romero, C et al. (2020): Data from the study of adaptive value and gene flow effects on populations inhabiting marginal using in situ common gardens. figshare. Dataset. 10.6084/m9.figshare.11861886.v1
8. Morán López, T et al. (2022), Flexible diets enable pollinators to cope with changes in plant community composition, Dryad, Dataset, 10.5061/dryad.v41ns1rzh
9. Morente-López, J; Lara-Romero, Carlos et al (2022): High and Low Letal Temperature data for Silene ciliata populations. figshare. Dataset. 10.6084/m9.figshare.19368872.v1
10. Morente-López, J; Lara-Romero, Carlos; M. Iriondo, Jose (2022): Data of Silene ciliata presences in the Sistema Central used in "Linking ecological niche models and common garden experiments to predict phenotypic differentiation in stressful environments: assessing the adaptive value of marginal populations in an alpine plant". figshare. Dataset. 10.6084/m9.figshare.13562618.v1.
11. Sacristán-Bajo, S; Garcia, A; Lara-Romero, C; Prieto-Benítez, S; Tabarés, P; Morente-López, J; et al. (2022). Population origin determines the adaptive potential for the advancement of flowering onset in Lupinus angustifolius (Fabaceae). figshare. Dataset. 10.6084/m9.figshare.21065602.v2
12. García, Y; Giménez-Benavides, L; Iriondo, JM; Lara-Romero, C; Mendez, M; Morente-López, J; & Santamaría, S. (2023). Bipartite plant-pollinator diurnal and nocturnal networks for three mountain systems of the Iberian Peninsula. [Data set]. Zenodo. 10.5281/zenodo.10391505
13. Lara-Romero, Carlos et al. (2024). Effect of green infrastructure on restoration of pollination networks and plant performance in semi-natural dry grasslands across Europe [Dataset]. Dryad. 10.5061/dryad.fbg79cp2t

SCIENTIFIC CONFERENCES AND SEMINARS

Invited talks and lectures

1. Evaluación de la tolerancia a la sequía en poblaciones silvestres de *Lupinus angustifolius*. Webinario Trabajos en Recursos Fitogenéticos de Leguminosas. Red Española de Leguminosas. Online. 27/02/2024.
2. Adaptive value of marginal populations in alpine ecosystems: never judge a book by its cover. Guest lecture at Master's in Conservation Biology. URJC, Spain. 14/03/2022.

3. Búsqueda, descarga y limpieza de datos de biodiversidad desde GBIF. Una odisea ecoinformática. Cycle of online seminars on ecoinformatics. Spanish Association of Terrestrial Ecology (AEET). 31/01/2022.
4. Cambio climático en la alta montaña mediterránea. Conference series on Climate Change. Interdisciplinary Laboratory on Climate Change (LINCC). University of the Balearic Islands, Spain. 20/05/2018.
5. Efectos directos e indirectos de la invasión de arbustos en los prados alpinos mediados por las interacciones planta-polinizador. Seminar on Ecological Interactions: Demographic Analysis and Implications. UTPL, Ecuador. 21/02/2016.
6. Diseños de Investigación Aplicados a la Biología de la Conservación. Guest lecture at Master's in Conservation Biology and Tropical Ecology. UTPL, Ecuador. 15/04/2016.

Oral communications

1. Cambio climático y sociedad. De la ciencia básica a los servicios climáticos. XIII Congreso de la Asociación Española de Climatología. San Lorenzo de El Escorial, Madrid, Spain. 22/01/2025 - 24/01/2025.
2. Genomic assessment of climate adaptation in an annual legume via artificial selection and assisted gene flow. XX International Botanical Congress IBC. Madrid, Spain. 21/07/2024 - 27/07/2024.
3. Genetic basis of resistance to ash dieback in narrow-leaved ash in floodplain forests of Europe. 26th World Congress of the International Union of Forest Research Organizations (IUFRO). Stockholm, Sween. 23/06/2024 - 29/06/2024.
4. Genetic basis of resistance to ash dieback in narrow-leaved ash in floodplain forests of Europe. 7th European Congress of Conservation Biology (ECCB). Society for Conservation Biology. Bologna, Italy. 17/06/2024 - 21/06/2024.
5. Facilitated adaptation as a conservation tool for plant adaptation to climate change. 18th Meeting of the Organization for the Phyto-Taxonomic Investigation of the Mediterranenan Area (OPTIMA). Erice, Italy. 20/09/2023 - 23/09/2023.
6. Design and development of genetic reserves for plant conservation. 18th Meeting of the Organization for the Phyto-Taxonomic Investigation of the Mediterranenan Area (OPTIMA). Erice, Italy. 20/09/2023 - 23/09/2023.
7. Adaptative potential of marginal populations: Beyond the genetic depauperation paradigm. 15th Congress Spanish Association of Terrestrial Ecology (AEET). Plasencia, Spain. 18/10/2021 - 22/10/2021
8. Spatial complementarity analysis for the in situ conservation of crop wild relative diversity in Europe and Turkey. 1st Spanish Botanical Congress (SEBOT). Granada, Spain. 08/09/2021 - 10/09/2021
9. Herramientas genéticas alternativas en la biología de la conservación: hacia nuevos objetivos. IX Congreso de Biología de la Conservación de Plantas (SEBiCoP). Granada, Spain. 09/07/2019 - 12/07/2019
10. Phenotypic and genomic data reveal adaptive genetic variation in flowering phenology in a Mediterranean alpine. 1st Meeting of the Iberian Ecological Society (SIBECOL). Barcelona, Spain. 04/02/2019 - 07/02/2019.
11. Tropical seed dispersal networks: emerging patterns, biases and keystone species. 54th Annual Meeting of the Association for Tropical Biology and Conservation. Merida, Mexico. 09/07/2017 - 14/07/2017.
12. El rol de las poblaciones marginales en el manejo y restauración de poblaciones silvestre en un clima cambiante. I Congreso Ecuatoriano de Restauración de Paisajes. Loja, Ecuador. 05/04/2016 - 09/04/2016.

13. Transcriptomic and phenotypic data from common gardens reveal adaptive genetic variation in a Mediterranean alpine plant. 13th European Ecological Federation (EEF) Congress. Rome, Italy. 21/09/2015 - 25/09/2015
14. *Silene ciliata* (Caryophyllaceae) as a model species in a climate change scenario: our multidisciplinary approaches. Caryophyllales Network 2015 conference. Berlin, Germany. 13/09/2015 - 18/09/2015.
15. Local adaptation versus inbreeding depression in marginal populations of a Mediterranean alpine plant: are they worthy of conservation in a context of climate change?. XVth European Society for Evolutionary Biology (ESEB) Meeting. Lausanne, Switzerland. 10/08/2015-15/08/2015.
16. Variación del patrón de reclutamiento en plantas de alta montaña en un gradiente altitudinal. 11th Congress of the Spanish Association of Terrestrial Ecology (AEET) "Invitation to Ecology". Pamplona, Spain. 06/05/2013 - 10/05/2013.
17. Differences in the diversity and composition of the pollinator assemblage of congeneric alpine plants in three mountain regions of the Iberian Peninsula (Spain). SCAPE 2012. Halden, Norway. 25/10/2012 - 28/10/2012.
18. Identifying quality standards for genetic reserve conservation of CWR. Joint meeting of the ECPGR In situ and On Farm Conservation Network and the EU project AGRI GENRES; AEGRO. Funchal (Madeira) (Portugal), Portugal. 13/09/2010.
19. Distribución y abundancia del tejón europeo (*Meles meles*) en ecosistemas semiáridos de la Península Ibérica: importancia del uso humano. IV congreso de la Naturaleza de la Región de Murcia y I del Sureste Ibérico. Murcia, Spain. 19/11/2008.
20. Evaluación del estrés del tejón europeo (*Meles meles*) en un gradiente ambiental en su límite de distribución sur: implicaciones ante el cambio global. IV congreso de la Naturaleza de la Región de Murcia y I del Sureste Ibérico. Cambio Climático y Ecosistemas Semiáridos. Murcia, Spain. 19/11/2008.

FUNDING

Three research projects, 8 research fellowships and contracts (6 postdoctoral), 8 research stay grants (3 postdoctoral) and 4 conference and workshop grants. Total amount: 769 000 €.

Research projects as principal investigator

1. Drought Adaptation in Crop Wild Relatives: an integrative approach (DACWIRE: PID2021-127841OA). *Spanish National R&D&I Plan.* 176 600 €. PI.
2. Development of the Spanish Strategy for the Conservation of Crop wild Relatives and Wild Plants for Food Use. Spanish Ministry of Agriculture, Fisheries and Food. PIs: Carlos Lara-Romero & José Iriondo. Duration: 2023-2025. Budget: 230.976 €.
3. Extension of EURISCO for Crop Wild Relatives (CWR) in situ data and preparation of pilot countries' data sets (L21ROM198). International Plant Genetic Resources Institute. 2022-2023. 15 000 €. PI.

Research fellowships and contracts

- Juan de la Cierva incorporación Postdoctoral Fellowship (IJC2019-041342-I). Spanish Ministry of Science and Innovation. Score: 98/100 – Rank: 6/183. 2021-2024 (3 years). 93 000 €.
- Postdoctoral contract funded by research project "Determinants of the success of exotic trees across different invasion stages (EXARBIN: RTI2018-093504-B-100)". University of Alcalá (UAH). 2020-2021 (20 months). 37 036 €
- Postdoctoral position funded by URJC (Reference No. 478). 2019, 24 700 €.

- Juan de la Cierva Formación Postdoctoral Fellowship (FJCI-2015-24712) Spanish Ministry of Economy and Competitiveness. Score: 97.2/100 – Rank: 8/138. 2017-2019 (2 years). 50 000 €.
- Postdoctoral Fellowship. Technical Particular University of Loja (UTPL), Ecuador. 2016-2017 (6 months). 15 166 €.
- Postdoctoral contract funded by research project "Local adaptation in high-mountain plants: an integrated perspective (AdAptA: CGL2012-44528)." URJC. 2015-2016 (12 months). 24 000 €
- Predoctoral FPI Fellowship (BES-2010-036503). MINECO. 2010-2014, 55 560 €.
- Research Initiation Fellowship. Spanish Ministry of Education. 2007, 2 550 €.

Mobility grants

- José Castillejo Mobility Grants (CAS21/00070). Spanish Ministry of Education. 2022 (6 months), 17.342€. Stay in INRAE Bordeaux-Aquitaine.
- Mobility grant of COTE cluster of excellence (LabEx COTE). U. de Bordeaux. 2018 (4 months), 3.000 €. Stay in INRAE Bordeaux-Aquitaine.
- José Castillejo Mobility Grants (CAS18/00189). Spanish Ministry of Education. 2018 (4 months), 12.757€. Stay in INRAE Bordeaux-Aquitaine.
- Exchange Grant within the framework of the ESF networking programma ConGenOmics (Grant 4794). 2014 (3 months), 5.600 €. Stay in ETH Zurich..
- Four short research stay fellowship of FPI program. Spanish Ministry of Economy and Competitiveness. 2011 (3 months), ETH Zurich, Switzerland, 2000 €; 2012 (2 months), Uppsala University, Sweden, 3750 €; 2013 (3 months), ETH Zurich, Switzerland, 5200 €; 2014 (3 months), CIBIO/InBIO, Porto, Portugal, 2.800 €.

Funding for organising scientific meeting/workshop

- Funding for organising two editions (2016-2017) of the course '*Introduction to Next-Generation Sequencing: Applications in Ecology and Evolution'*. Granted by URJC 1.500 €.
- Funding for organising two editions (2017-2018) of the course '*Curso de análisis de redes ecológicas'.* Granted by FORMAVANZ Programm (Fundación General CSIC- FGCSIC), 7.750 €.

RESEARCH MANAGEMENT AND PARTICIPATION IN SCIENTIFIC COMMITTEES

Management of research activities

- Member of the Quality Assurance Committee of the Doctoral Programme in Natural Resources Conservation, *URJC, 2010 to 2012.*
- Technical Manager and Coordinator of the Biological Big Data Laboratory of the Biodiversity and Conservation Area of the URJC, Spain, 2024 to date. http://agapita.escet.urjc.es/

Organization of research activities

- Creation of the database *Trans-Planta*. A database of plant conservation translocations in Spain managed by maintained by SEBICoP (https://www.conservacionvegetal.org/bdtcpe/)
- Organizer of the course "Gestión y visualización de datos con R. Convirtiendo datos en historias" (Data minning and visualization course)". *AEET, Spain. 2021 to 2023.*
- Organizer of the course "Curso Superior en Análisis de Redes Ecológicas (Ecological Network Analysis course)". *1st ed. Univ.of Balearic Islands (UIB), Spain, 2018. 2nd ed. URJC, Spain, 2019.*
- Organizer of the course "Introduction to next generation sequencing: applications in ecology and evolution", *University of Barcelona (UB), Spain, 2018*.
- Organizer of the course "Curso de Introducción a las técnicas de Next Generation Sequencing: aplicaciones en ecología y evolución (NGS Data Analysis Course)", *URJC, Spain, 2016 to 2017*

- Member of the Scientific Committee of the III Meeting of the Iberian Society of Ecology (SIBECOL), Spain, 2025.
- Organizer of the "XVIII ECOFLOR meeting", *URJC, Spain, 2021.*
- Organizer of the "XV ECOFLOR meeting", *Mediterranean Institute of Advanced Studies (IMEDEA-CSIC), Spain, 2018.*
- Chairman in the symposia "Avances conceptuales y metodológicos en ecología evolutiva". 16th Congress Spanish Association of Terrestrial Ecology (AEET). Almeria, Spain, 2023.
- Chairman in the "IV Cycle of Seminars of the Research Group on Evolutionary Ecology (ECOEVO) of the University of the Rey Juan Carlos". URJC, February *2023 – June 2023.*
- Chairman in the "V Cycle of Seminars of the Research Group on Evolutionary Ecology (ECOEVO) of the University of the Rey Juan Carlos". URJC, Octobre *2023 – February 2024.*
- Chairman in the symposia "Evolutionary responses to climate change. Evidence from Mediterranean plant populations". XIV Mediterranean Ecosystems Conference (MEDECOS). *International Society of Mediterranean Ecology. Sevilla, Spain, 2017.*
- Chairman in the "Annual seminary of the Biodiversity and Conservation Area", *URJC, 2011 to 2014.*

Evaluation and revision of R&D projects and articles

- Subject Editor for Plant Biology (IF: 3.081), 2021 to present.
- 31 peer review records of 26 scientific articles for journals such as Molecular Ecology, Journal of Ecology, Functional Ecology or Scientific Reports.

  Full list at https://publons.com/researcher/583636/carlos-lara-romero/peer-review/
- Committee member for the evaluation of project proposals
  - *AEI-Agencia Estatal de Investigación (Spanish State Research Agency), 2024*
  - *Universidad de Alcalá (UAH), 2024*
  - *Czech Science Foundation, 2021*
- Committee member for the evaluation of "Open Science" prize awarded by AEET, 2021.
- Member of doctoral thesis committee.
  - *Dra. Rocío Castro Urgal. University of Balearic Islands, Spain. 2017.*
  - Dr. Jaume Seguí. *University of Balearic Islands, Spain. 2017.*
  - *Dra. Iciar Civantos Gómez. Technical University of Madrid (UPM). 2023.*
- Member of Master's thesis Committee. Masters Degree in Ecosystem Restauration*. University of Alcala (UAH), Spain.* 2021.
- Member of the Final Degree Project Committee. Degree in Biology*. URJC, Spain:* October 2023, June 2024, July 2024, Octobre 2024 (Four committees)

Scientific societies and professional associations

- Asociación Española de Ecología Terrestre (Spanish Ecological Society). Madrid, Spain.
- European Ecological Federation (EEF). London, United Kingdom.
- Iberian Ecological Society (SIBECOL).

Co-operation networks

- "GrENE-net – Genomics of rapid Evolution in Novel Environments". GrENE-net is set up as a coordinated distributed experiment with Arabidopsis thaliana. The consortium counts with the collaboration of more than 50 researchers of several countries in the world.
- "ECOFLOR". Spanish group of scientists interested on reproductive ecology of flowering plants (from evolution to pollinators). *Group funded by AEET*

- "EcoInformatica". Spanish group of scientists interested on bioinformatics. *Group funded by AEET*

TEACHING EXPERIENCE

General teaching experience

1098 hours of teaching: 194 hrs of teaching in M.S. degrees, 637 hrs of teaching in B.S. degrees and 267 hrs of teaching specialized courses.

- 2010-2013

Lab instructor. Degree in Science and food technology. Subject: Biology (42 hrs). *URJC, Spain*

- 2011-2012

Lab instructor. Degree in Environmental Science. Subject: Cartography (4 hrs). *URJC, Spain*

- 2012-2013.

Lab instructor. Degree in Environmental Science. Biodiversity conservation (5 hrs) and Botany (6 hrs). *URJC, Spain*

Lab instructor. Degree in Experimental Science. Subject: Biology (12 hrs). *URJC, Spain*

Lab instructor. Degree in Chemical Engineering. Subject: Biotechnology (22 hrs). *URJC, Spain*

- 2015-2016

Lecturer. Masters Degree in Tropical Ecology and Biodiversity. Subject: Population Biology (100 hrs). *UTPL, Ecuador.*

Lecturer . Degree in Chemical Engineering. Subject: Experimental Design and Statistical Analysis (48 hrs). *UTPL, Ecuador.*

- 2015-2017

Lab instructor. Degree in Biology. Subject: Evolutionary Genetics (64 hrs). *URJC, Spain*

Co-lecturer. Masters Degree in Conservation and Ecology. Subject: Field sampling Methods (6 hrs). *URJC, Spain*

- 2016-2022

Co-lecturer . Masters Degree in Ecosystem Restoration. Subject: Genetic Restoration (30 hrs). *UAH, Spain.*

Co-lecturer. Masters Degree in Conservation and Ecology. Subject: Genetic Restoration (30 hrs). *URJC, Spain*

- 2021-2022

Co-lecturer. Degree in Environmental Science. Subject: Protected areas and wildlife management (30 hrs). *URJC, Spain*

Co-lecturer. Masters Degree in Conservation and Ecology. Subject: Restoration of extreme environments (4 hrs). *URJC, Spain.*

Lab instructor. Degree in Environmental Science. Subject: Biodiversity conservation (4 hrs). *URJC, Spain*

- 2022-2023

Co-lecturer. Degree in Pharmacy. Subject: Biology (20 hrs). *Universidad Complutense de Madrid (UCM), Spain*

Lab instructor. Degree in Pharmacy. Subject: Biology (75 hrs). *UCM, Spain*

Lab instructor. Degree in Pharmacy. Subject: Environmental botany (10 hrs). *UCM, Spain*

Lecturer. Degree in Water Resources. Subject: Biology (36 hrs). *URJC, Spain*

Lecturer. Degree in Biology. Subject: Applied informatics (22 hrs). *URJC, Spain*

Lecturer. Degree in Science and food technology. Subject: Raw materials (30 hrs). *URJC, Spain.*

Lab instructor. Degree in Science and food technology. Subject: Biology (12 hrs). *URJC, Spain*

Lab instructor. Degree in Biology. Subject: Botany (36 hrs). *URJC, Spain*

Lab instructor. Degree in Pharmacy. Subject: Botany (8 hrs). *URJC, Spain*

Lab instructor. Degree in Environmental Science. Biodiversity conservation (8 hrs) *URJC, Spain*

- 2023-2024

Lecturer. Degree in Biology. Subject: Applied informatics (36 hrs). *URJC, Spain*

Lecturer. Degree in Science and food technology. Subject: Raw materials (30 hrs). *URJC, Spain.*

Lab instructor. Degree in Biology. Subject: Botany (36 hrs). *URJC, Spain*

Lab instructor. Degree in Biology. Subject: Ecology (22 hrs). *URJC, Spain*

Lab instructor. Degree in Pharmacy. Subject: Botany (8 hrs). *URJC, Spain*

Lab instructor. Degree in Environmental Science. Biodiversity conservation (8 hrs) *URJC, Spain*

Lab instructor. Degree in Water Resources. Subject: Biology (4 hrs). *URJC, Spain*

Teaching experience in specialized courses

- Curso de Introducción a las técnicas de Next Generation Sequencing: aplicaciones en ecología y evolución (NGS Data Analysis Course). URJC, Spain, 2016 to 2019 (three editions, 45 hrs).
- Curso de análisis de redes ecológicas (Network Analysis course). University of Balearic Islands. Palma, 2018 Spain (8 hrs)
- Introduction to next generation sequencing: applications in ecology and evolution. University of Barcelona (UB), 2018 Spain (15 hrs).
- Curso Superior Universitario en Análisis de Redes Ecológicas (Network Analysis course). URJC, Spain, 2019 (20 hrs).
- Métodos Estadísticos para la Investigación (Statiscial Analysis Course). URJC, Spain, 2020 to 2023 (four editions, 68 hrs).
- Gestión y visualización de datos con R. Convirtiendo datos en historias. AEET, Spain. 2021 to 2023 (three editions, 90 hrs)
- Detección y manejo de outliers en R (Data Management Course). AEET, El Escorial (Madrid), Spain. 2024 (4 hrs)

Teacher training courses

- Manejo emocional y su aplicación en la práctica docente. URJC, Spain. 2023 (10 hrs)
- Elaboración de guías docentes. URJC, Spain. 2023 (5 hrs)
- Curso básico en el uso didáctico de Moodle online. URJC. Spain. 2023 (5 hrs)

- Gestión de calificaciones en el aula virtual. URJC. Spain. 2023 (4 hrs)
- Gestión de actividades grupales en aula virtual. URJC. Spain. 2024 (5 hrs)
- Docencia virtual en urjc online. URJC. Spain. 2024 (5 hrs)
- Curso avanzado en el uso didáctico de Moodle online. URJC. Spain. 2024 (25 hrs)

Teaching innovation projects

- BIOREDES: CONECTANDO BIOLOGÍA Y REDES SOCIALES. URJC-ESCET. PI: Támara Villareal Hidalgo. Duration:2022-2023 y 2023-2024. Budget: 210 €.
- "conservARTE: sensibilización y enseñanza de la conservación de la biodiversidad a través del arte. URJC-ESCET. PI: Carlos Lara-Romero. Duration: 2024-2025. Budget: 190 €.

SUPERVISED THESES

Supervised Theses

Carlos Fernández Celdrán. Ongoing. "Evaluation of drought adaptation mechanisms in Lupinus angustifolius as an adaptation strategy in the face of global change". Co-supervised with Dr. Alfredo García-Fernádez, *URJC, Spain.*

Javier Morente López. 2019. "Adaptive processes of alpine plants in marginal areas: an integrative approach". Co-supervised with Porf. José M. Iriondo, *URJC, Spain.*

Supervised Master Theses

1. Sandra Sacristán. 2017. "Transcriptome study of *Silene ciliata* using NGS and bioinformatic approaches: future applications in ecology and evolution", *UAH, Spain.*
2. Carlos J. Naranjo. 2018. "Evaluating the structure of commensalistic epiphyte–phorophyte networks. A comparative perspective of biotic interactions", *UTPL, Ecuador.*
3. Celía del Tío Navas. 2023. "Bases para la conservación *in situ* de poblaciones de parientes silvestres de los cultivos en España", *UAH*. Spain.
4. Anxo Rodríguez Mosquera. 2024. "Evaluación de la eficacia de los mapas ecogeográficos en la detección de diversidad genética en poblaciones de *Lupinus angustifolius"*, *UAH*. Spain.
5. María Elisa Landázuri Benítez. 2025. "Desarrollo y evaluación de algoritmos de modelización para construir mapas ecogeograficos con aplicación en la restauración ecológica". *URJC, Spain.*
6. Ana Arroyo del Barco. 2025. "Impacto del cambio climático sobre los patrones de distribución geográfica de los parientes silvestres de los cultivos (PSC) y plantas silvestres de uso alimentario (PSUA) prioritarios de España". *URJC, Spain.*

Supervised final degree projects

1. Miguel Cantero Laorden. 2012. "Caracterización de la red nocturna de plantas-polinizadores de la Sierra de Guadarrama". *Degree in Environmental Sciences URJC, Spain.*
2. Angela López Gil. 2013. "Estudio de la estructura genética espacial intrapoblacional de silene ciliata, una planta de alta montaña mediterránea". *Degree in Biology, URJC, Spain*.
3. Marcos Peromingo Quesada.2014. "Estudio de la ruptura de la dormancia y germinación de las semillas de *Silene ciliata"*. *Degree in Biology, URJC, Spain*.
4. Pablo Tabares. 2017. "Control genético de caracteres funcionales en poblaciones de S*ilene ciliata.* Ánalisis de la variación interpoblacional", *URJC, Spain.*
5. Sandra Gómez Pérez. 2017. "Variabilidad de la eficacia biológica en poblaciones centrales y marginales de *Silene ciliata*". *Degree in Biology, URJC, Spain*.
6. Sergio Eleazar García González. 2018. "Efecto del origen del flujo genético sobre la eficacia biológica de semillas procedentes de cruzamientos xenógamos en poblaciones marginales de *Silene ciliata*". *Degree in Biology, URJC, Spain*.

7. Aida Bejarano Lorenzo. 2020. “Efecto de la selección asistida de la floración en la germinación de semillas de *Silene ciliata*”. Degree in Environmental Sciences, *URJC, Spain.*
8. Cristina Poyatos Fernández. 2020. “Estudio de la heredabilidad de rasgos funcionales de Lupinus angustifolius en poblaciones bajo diferentes condiciones ambientales”. *Degree in Biology, URJC, Spain*.
9. Sandra García Medina. 2021. “Evaluación in situ de lineas de floración temprana de lupinus angustifolius como respuesta al cambio climático*”*. *Degree in Biology, URJC, Spain*.
10. Raquel Nieto Illán. 2022. “Explorando la huella humana en la riqueza de especies emparentadas con cultivos”. *Degree in Environmental Sciences, URJC, Spain.*
11. Álvaro Martín Martín. 2024. “Diseño y desarrollo de bases de datos orientadas a documentos: caso práctico en MongoDB. *Degree in Computer Engineering, URJC, Spain.*
12. Mikel Vadillo Moreno. 2024. “Análisis de la diversidad funcional de las comunidades microbianas en suelos asociados a *Lupinus angustifolius* en una distribución geográfica latitudinal mediterránea”. *Degree in Biology, URJC, Spain*.
13. Geanina Andreea Cristea. 2024. “Alternativas agrícolas sostenibles”. *Degree in Food Science and Technology, URJC, Spain.*