

**CARLOS LARA-ROMERO**  
**Curriculum vitae. May 2022**

**PERSONAL INFORMATION**

Place and date of birth	30 <sup>th</sup> July 1983, Madrid (SPAIN)	National Identification Document: 53447757N
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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 *Mol Ecol*). 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. 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. 550 k€). I have been involved in different evaluation activities as jury member in PhD dissertations, and as regular reviewer for scientific journals. I am an subject editor of the journal *Plant Biology* (IF: 3.877). I have more than ten years of teaching experience at the graduate and postgraduate level in four different institutions. Since my first

postdoc position, I am supervising graduate and undergraduate students in research resulting in publications in prestigious journals in which I have taken the role of corresponding author. 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 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. **Postdoctoral researcher**, 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. **Predocctoral research fellow**, 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-Martínez).
2. Sept 2018 – Apr 2019 (8 months, postdoctoral). **INRAE, BIOGECO Research Unit, France** (with Santiago González-Martínez).  
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

- 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 €.
- 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: 2022-2025. Budget: 176 600 €
- 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: 15 000 €.
- 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: 225 300 €.
- 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): 55.999
- INTERaction Variation along ALtitudinal gradients (sINTERVAL). *Deutsche Forschungsgemeinschaft* (German Research Society). PI: Tiffany Knight. Duration: 2021-2023. Budget: 44 230 €
- 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: 102 805 €.
- 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: 193 600 €.
- 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): 202.050 €.
- 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): 148 500 €.

- 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: 112 000 €.
- 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: 13 770 €.
- 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: 2 500 €.
- 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: 95 000 €.
- 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: 136 730 €.
- 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): 67 196 €
- 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: 33 320 €.

## PUBLICATIONS

Citations: 704, H-Index: 17, i10-index: 25 (as of Google Scholar in March 2023)

\* Corresponding author

### Articles in peer-reviewed journals

1. **Lara-Romero, C\***; Iriondo, JM; García-Fernández, A; Morente-López, J; Sacristán-Bajo, S; González-Martínez, SC. 2023. Evolutionary value of marginal alpine plant populations: beyond the genetic depauperation paradigm. *Annals of Botany*, 1st revision.
2. 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 two species with contrasted reproductive strategies and life cycles. *Annals of Botany*, 2nd revision.
3. García, Y; Giménez-Benavides, L; Iriondo, JM; **Lara-Romero, C\***; Méndez, M; Morente-López, J; Santamaría, S. 2023. Addition of nocturnal pollinators modifies the structure of pollination networks. *Scientific Reports*, 1st revision.
4. 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. 2023. Effect of green infrastructure on restoration of pollination networks and plant performance in semi-natural dry grasslands across Europe. *Journal of Applied Ecology*, 1st revision.
5. 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: 4.658 (39/238, Plant Science, Q1).

6. Sacristán-Bajo, S; **Lara-Romero, C**; García-Fernández, A; Prieto-Benitez, S; Morente-López, J; Rubio Teso ML; Torres, E; Iriondo, JM. 2023. Effects of assisted gene flow on the flowering onset of the annual legume *Lupinus angustifolius* L.: from phenotype to genotype. *bioRxiv* 2023.01.20.524742; doi: <https://doi.org/10.1101/2023.01.20.524742>
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 effectiveness of facilitated adaptation for the advancement of flowering onset in *Lupinus angustifolius* (Fabaceae). *Evolutionary Applications*, 16: 62-73. JIF: 4.929 (12/52, Evolutionary Biology, Q1).
8. Bartomeus, I; Lanuz, JB; Woods, TJ; [...] **Lara-Romero, C**; et al. 2022. Iberian bees dataset. *Ecosistemas*, 31:2380. CiteScore 1.5 (265/437, Ecology, Q3).
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: 3.389 (13/70, Forestry, Q1).
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: 13.211 (1/65, Biodiversity Conservation, D1; 5/173 Ecology, D1).
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: 6.38 (21/279, Plant Science, D1; 23/174, Ecology Q1).
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: 4.384 (6/69, Forestry, D1).
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: 6.627 (20/238, Plant Science, D1).
14. Morente-López, J; **Lara-Romero, C**; Garcia-Fernández, 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).
15. Prieto-Benítez, S; Morente-López, J; Rubio Teso, M; **Lara-Romero, C**; Garcia-Fernández, 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-Fernández, 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. CiteScore 1.5 (265/437, Ecology, Q3).
18. 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).

19. **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).
  20. 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).
  21. 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).
  22. 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).
  23. Morente-López, J; **Lara-Romero, C\***; Ornos, 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).
- # J. Morente-López and C. Lara-Romero contributed equally to this publication.
24. 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).
  25. 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).
  26. 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).
  27. **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. *Perspectives in plant Ecology, Evolution & Systematics (PPES)*, 25: 59-67. JIF: 2.82 (48/223, Plant Science, Q1).
  28. **Lara-Romero, C\***. 2017. Adjustment, interpretation and presentation of linear models: p-value is not enough. *Ecosistemas* 26: 64-66. CiteScore 0.8 (238/328, Ecology, Q3).
  29. **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).
  30. **Lara-Romero, C\***; de la Cruz, M; Escribano-Ávila, G; García-Fernández, A; Iriondo, JM. 2016. 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).
  31. **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).
  32. 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).

33. **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).
34. **Lara-Romero, C\***; Robledo-Arnuncio, JJ; García-Fernández, A; Iriondo J.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).
35. 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).
36. Escribano-Avila, G\*; Pettoirelli, 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).
37. 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).
38. **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.
39. **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).
40. 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).
41. 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).
42. 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.
43. **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

44. 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.
45. 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.

46. A. García-Fernández; R. Rebolé; **C. Lara-Romero**; S. Prieto; JM Iriondo. 2019. *Ranunculus parnassifolius* L. In: Atlas y Libro Rojo de la Flora Vasculare Amenazada de España - Adenda 2017. pp. 136 - 137. Ministerio para la Transición Ecológica- Sociedad Española de Biología de la Conservación de Plantas. Madrid, Spain.
47. 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.
48. 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.
49. 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

50. Rubio Teso, M.L., Álvarez Muñoz, 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.
51. Rubio Teso, M.L.; Álvarez Muñoz, 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.
52. Rubio Teso, M. L.; Álvarez Muñoz, 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.

#### Popular science articles

53. 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 (ECOFLORE) alcanza la mayoría de edad. **Ecosistemas** 30: 2264.
54. **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 ECOFLORE. **Ecosistemas** 27: 132-133.
55. 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.
56. **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

57. Data type: Microsatellite sequences (19 accessions). Organism: *Armeria caespitosa*. [https://www.ncbi.nlm.nih.gov/nuccore/?term=txid71847\[Organism:noexp\]](https://www.ncbi.nlm.nih.gov/nuccore/?term=txid71847[Organism:noexp])



58. Bioproject accession: PRJNA528948. Data type: Transcriptome (9 accessions). Organism: *Silene ciliata*. <https://www.ncbi.nlm.nih.gov/bioproject/528948>
59. Bioproject accession: PRJNA851086. Data type: Raw sequence reads (96 accessions). Organism: *Silene ciliata*. <https://www.ncbi.nlm.nih.gov/bioproject/?term=PRJNA851086>

### Public datasets acquired during my research activity

Usage metrics: 3066 item views, 813 item downloads (June, 2022).

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, <https://doi.org/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: <http://dx.doi.org/10.5061/dryad.p869n>
3. Lara-Romero, C et al. 2016 Individual spatial aggregation correlates with between-population variation in fine-scale genetic structure of *Silene ciliata* (Caryophyllaceae). Heredity. Dataset: Figshare, <https://doi.org/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, <https://doi.org/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: <https://doi.org/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. <https://doi.org/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. <https://doi.org/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, <https://doi.org/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. <https://doi.org/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. <https://doi.org/10.6084/m9.figshare.13562618.v1>

## SCIENTIFIC CONFERENCES AND SEMINARS

### Invited talks and lectures

1. 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.
2. 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.

3. 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.
4. 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.
5. 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. Adaptive potential of marginal populations: Beyond the genetic depauperation paradigm. 15<sup>th</sup> Congress Spanish Association of Terrestrial Ecology (AEET). Plasencia, Spain. 18/10/2021 - 22/10/2021
2. Spatial complementarity analysis for the in situ conservation of crop wild relative diversity in Europe and Turkey. 1<sup>st</sup> Spanish Botanical Congress (SEBOT). Granada, Spain. 08/09/2021 - 10/09/2021
3. 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
4. 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.
5. Tropical seed dispersal networks: emerging patterns, biases and keystone species. 54<sup>th</sup> Annual Meeting of the Association for Tropical Biology and Conservation. Merida, Mexico. 09/07/2017 - 14/07/2017.
6. 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.
7. 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
8. *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.
9. Local adaptation versus inbreeding depression in marginal populations of a Mediterranean alpine plant: are they worthy of conservation in a context of climate change?. XV<sup>th</sup> European Society for Evolutionary Biology (ESEB) Meeting. Lausanne, Switzerland. 10/08/2015-15/08/2015.
10. 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
11. 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
12. 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.
13. 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.
14. 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

Two research project, 8 research fellowships and contracts (6 postdoctoral), 8 research stay grants (3 postdoctoral) and 4 conference and workshop grants. Total amount: 537,000 €.

### Research projects as principal investigator

- Drought Adaptation in Crop Wild Relatives: an integrative approach (DACWIRE: PID2021-127841OA). *Spanish National R&D&I Plan*. 176 600 €. PI.
- 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 €.
- 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

### Organization and management 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 2022.*
- Organizer of the course “Curso Superior en Análisis de Redes Ecológicas (Ecological Network Analysis course)”. *1<sup>st</sup> ed. Univ.of Balearic Islands (UIB), Spain, 2018. 2<sup>nd</sup> 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*
- 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 “Evolutionary responses to climate change. Evidence from Mediterranean plant populations”. XIV Mediterranean Ecosystems Conference (MEDECOS). *International Society of Mediterranean Ecology, 2017.*
- Chairman in the “Annual seminary of the Biodiversity and Conservation Area”, *URJC, 2011 to 2014.*
- Member of the Quality Assurance Committee of the Doctoral Programme in Natural Resources Conservation, *URJC, 2010 to 2012.*

### Evaluation and revision of R&D projects and articles

- Subject Editor for Plant Biology (IF: 3.081), 2021 to present.
- Reviewer of 28 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. *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.*
- Member of doctoral thesis committee. *Dr. Jaume Seguí. University of Balearic Islands, Spain. 2017.*
- Member of Master’s thesis Committee. Masters Degree in Ecosystem Restauration. *University of Alcalá, Spain. 2021.*

### 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*
- “Ecolnformatica”. Spanish group of scientists interested on bioinformatics. *Group funded by AEET*

## TEACHING EXPERIENCE

### **General teaching experience**

703 hours of teaching: 170 hrs of teaching in M.S. degrees, 342 hrs of teaching in B.S. degrees and 191 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*

### 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 (45 hrs).
- Curso de análisis de redes ecológicas (Network Analysis course). University of Balearic Islands. Palma, 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 (Statistical Analysis Course). URJC, Spain, 2020 to 2022 (48 hrs).
- Gestión y visualización de datos con R. Convirtiendo datos en historias. AEET, Spain. 2021 to 2022 (55 hrs)

### CO-SUPERVISED THESES

#### Supervised Theses

Javier Morente López. 2019. "Adaptive processes of alpine plants in marginal areas: an integrative approach". Co-supervised with Prof. 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". Co-supervised with Dr. Alfredo García-Fernández, *UAH, Spain*.
2. Carlos J. Naranjo. 2018. "Evaluating the structure of commensalistic epiphyte–phorophyte networks. A comparative perspective of biotic interactions". 2018. Co-supervised with Prof. José M. Iriondo, *UTPL, Ecuador*.

#### Supervised final degree projects

1. Miguel Cantero Laorden. 2012. "Caracterización de la red nocturna de plantas-polinizadores de la Sierra de Guadarrama, *URJC, Spain*."
2. Angela López Gil. 2013. "Estudio de la estructura genética espacial intrapoblacional de *Silene ciliata*, una planta de alta montaña mediterránea", *URJC, Spain*.
3. Marcos Peromingo Quesada. 2014. "Estudio de la ruptura de la dormancia y germinación de las semillas de *Silene ciliata*", *URJC, Spain*.
4. Pablo Tabares. 2017. "Control genético de caracteres funcionales en poblaciones de *Silene ciliata*. Análisis de la variación interpoblacional", *URJC, Spain*.
5. Sandra Gómez Pérez. 2017. "Variabilidad de la eficacia biológica en poblaciones centrales y marginales de *Silene ciliata*", *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*", *URJC, Spain*.
7. Aida Bejarano Lorenzo. 2020. "Efecto de la selección asistida de la floración en la germinación de semillas de *Silene ciliata*", *URJC, Spain*.
8. Cristina Poyatos Fernández. 2020. "Estudio de la heredabilidad de rasgos funcionales de *Lupinus angustifolius* en poblaciones bajo diferentes condiciones ambientales", *URJC, Spain*.
9. Sandra García Medina . 2021. "Evaluación in situ de líneas de floración temprana de *Lupinus angustifolius* como respuesta al cambio climático", *URJC, Spain*.
10. Raquel Nieto Illán. 2022. "explorando la huella humana en la riqueza de especies emparentadas con cultivos.", *URJC, Spain*.