

David Cunillera-Montcusí

PhD in Aquatic Ecology

Margarita Salas Fellow

Universitat de Girona - Research Group on Ecology of Inland Waters (GRECO).

Universidad de la República- Departamento de Ecología y Gestión Ambiental. Centro Universitario Regional Este (CURE).

Universitat de Barcelona. FEHM-Lab (Freshwater Ecology, Hydrology and Management). Section of Ecology, Department of Evolutionary Biology, Ecology and Environmental Sciences.

david.cunillera@dcm.cat – www.dcm.cat

Date of birth: 08 of November 1992

Google scholar metrics (16/07/2023):

Number of citations: 161 and H-Index: 7

Web of Science (WoS - 16/07/2023) metrics:

Number of citations: 109 and H-Index: 6

[Research gate](#)

[Google scholar](#)

[GitHub](#)

ORCID ID: **0000-0001-8666-346X**

Aquatic Ecology – Metacommunity theory – Network connectivity – Landscape Structure

Trying to understand the main drivers of diversity and community assembly of aquatic communities. Starting my travel with Mediterranean *temporary ponds* from northwestern Iberian Peninsula on my PhD, later with *alpine lakes* in Austria and finally flowing through *rivers and intermittent streams* between Barcelona and Uruguay.

Through this professional water cycle, I have focused my work on trying to disentangle how *landscape structure* and organisms' *dispersal* interact and define *metacommunity dynamics*. I have developed and worked with different approximations using *network* and *neutral* theories to capture the relevance of *connectivity, centrality, and habitat distribution* in defining *diversity patterns*.

But instead of clear answers, I have seen that more needs to be done to effectively *move forward* from more descriptive approaches *to predictive tools* that will improve our understanding and foster conservation of aquatic ecosystems. From the highest mountain to the deepest abyss, human intervention is *fragmenting* and altering the landscape that bounds habitats and sustains their communities. Although their intrinsic differences, these systems are linked by similar *overarching processes* (i.e. dispersal, abiotic, biotic), which can be distilled and reproduced to *simulate scenarios of change* in landscape properties and help to design new conservation interventions or assess impacts consequences.

My current aims rely on pushing forward all these thoughts with new projects on the horizon (MSCA Meta-Heroes project), new collaborations to make, new tools to learn and new systems and approximations to discover.

Current & previous professional situation

01/09/2023 to present: **Marie Skłodowska-Curie Actions Postdoctoral Fellow** at the Biodiversity and Metacommunity Ecology lab and the Department of Community Ecology at the Institute of Aquatic Ecology of CER (Budapest, Hungary). Funded by the MSCA Postdoctoral Fellowships 2021 program (HORIZON-MSCA-2021-PF-01) European commission.

Previous positions:

04/04/2022 to 31/08/2023: **Margarita Salas fellow** at University of Girona with stays at Universidad de la República (Udelar) and FEHM-Lab (Freshwater Ecology, Hydrology and Management). Section of Ecology, Department of Evolutionary Biology, Ecology and Environmental Sciences. University of Barcelona. Program funded by the

European Union -NextGenerationEU, Ministerio de Universidades y Plan de Recuperación, Transformación y Resiliencia, throughout a competitive call in Universitat de Girona.

01/09/2021 to 31/12/2021: **Postdoctoral researcher at FEHM-Lab** (Freshwater Ecology, Hydrology and Management). Section of Ecology, Department of Evolutionary Biology, Ecology and Environmental Sciences. University of Barcelona, (Catalonia/Spain).

12/08/2020 to 31/08/2021: **Postdoctoral researcher at WasserCluster Lunz**, Lunz am See, Austria. Funded by the project AQUACOSMplus from the European Union's Horizon 2020 under grant agreement No 871081.

01/10/2015 to 21/02/2020: **Researcher under formation** (PhD student) at the aquatic ecology institute (University of Girona). Funded by a PhD scholarship (University professor formation grant from the Spanish ministry of Education, Culture and Sport - FPU14/06783).

01/06/2013 to 30/09/2015: Aquatic ecology institute (University of Girona, Spain) collaborator.

Academic formation

2015 to 2020: PhD at the program in water science and technology. University of Girona (Spain).

2014 to 2015: Master program in water science and technology. University of Girona (Spain).

2010 to 2014: Environmental sciences degree. University of Girona (Spain).

International and national courses:

15/08/2022-19/08/2022: Hierarchical Modelling of Species Communities (HMSC) online course hosted at JYVÄSKYLÄ SUMMER SCHOOL (University of Helsinki).

03/2021: Meta-Analysis Workshop. AQUACOSM-plus given by Helmut Hillebrand (University of Oldenburg) and Silke Langenheder (Uppsala University).

11/2020 to 12/2020: Webinar on video-filming. AQUACOSM-plus courses. Hosted by Middle East Technical University (METU).

15/04/2019 to 19/04/2019: R optimization for ecological studies. Asociación Española de Ecología Terrestre

28/11/2017 to 29/11/2017: IVth Workshop on applied statistics. Centro universitario de la región este (CURE). Universidad de la República, Uruguay.

10/10/2017 to 07/11/2017: Network theory and its managing tools. Centro universitario de la región este (CURE). Universidad de la República, Uruguay.

15/05/2017 to 19/05/2017: Research application of statistics using RStudio. Doctoral school. University of Girona.

03/04/2017 to 04/04/2017: Research Communication Skills and Outreach course, UNICAM Erasmus+ project.

13/02/2017 to 16/02/2017: Experimental design. Doctoral school. University of Girona.

07/11/2016 to 25/11/2016: How to write and publish a paper in Science.

05/06/2016 to 09/06/2016: A primer in ecological networks. Department of life sciences, PhD Program in Evolutionary Biology and Ecology. University of Parma, Italy.

16/05/2016-30/05/2016: Presenting your research in English. Doctoral school. University of Girona.

Language skills:

Catalan (mother tongue - native), Spanish (native), English (C2.1 language school certificate, 2016), French (B1 certificate from Université de la Bretagne Occidentale (UBO), 2023).

Computer skills:

2016 – 2022 Experience in web management, design and community management of Aquatic Ecology Institute and University of Girona doctoral association (UdG.doc) mostly centred in wordpress, Instagram and twitter management.

R statistical environment and self-code writing, R neutral model simulations, MS Office, Adobe photoshop, web design and maintenance with WordPress and other web development platforms (e.g., Weebly), video and photo editing experience (e.g., DaVinci Resolve and Adobe photoshop editors).

Peer- reviewed journal publications

Under review:

1. Alvaro Javier Moyano, Narcís Prat, Lluís Beltrán, Martí Piñero, **David Cunillera-Montcusí**, Julio C. López-Doval, Meritxell Abril, Lorenzo Proia, Miguel Cañedo-Argüelles (2023). What happens when salinization meets eutrophication? A test using stream microcosms. Under review in Science of the Total Environment.
2. Irene Tornero, Stéphanie Gascón, **David Cunillera-Montcusí**, Jordi Sala, Jordi Compte, Xavier D. Quintana, Dani Boix (2023). Untangling the roles of centrality and environmental drivers in biodiversity patterns across spatial scales. Under review in ECOSPHERE.

Published:

1. Damiano Baldan, **David Cunillera-Montcusí**, Andrea Funk, Mikołaj Piniewski, Miguel Cañedo-Argüelles, & Thomas Hein, 2023. The effects of longitudinal fragmentation on riverine beta diversity are modulated by fragmentation intensity. Science of The Total Environment 903: 166703.
2. **David Cunillera-Montcusí**, José María Fernández-Calero, Sebastian Pölsterl, Roger Argelich, Pau Fortuño, Núria Cid, Núria Bonada, & Miguel Cañedo-Argüelles (2023). Navigating through space and time: A methodological approach to quantify spatiotemporal connectivity using stream flow data as a case study. Methods in Ecology and Evolution 14 (7) 1780–1795.
3. **David Cunillera-Montcusí***, Jordi Bou, Thomas Mehner, Sandra Brucet, Matias Arim, & Ana Borthagaray* (2023). The European freshwater landscape and hotspot areas of mass effects and regional connectivity. Diversity and Distributions 29 (8) 997–1008. *Shared first-authorship
4. Ana Borthagaray*, **David Cunillera-Montcusí***, Jordi Bou, Jeremy Biggs & Matias Arim (2023). Pondscape or waterscape? The effect on the diversity of dispersal along different freshwater ecosystems. Hydrobiologia 850: 3211–3223. *Shared first-authorship
5. Daniel Hernández-Carrasco, **David Cunillera-Montcusí**, Maria Antón-Pardo, Miguel Cañedo-Argüelles, Maria Bas-Silvestre, Jordi Compte, Stéphanie Gascón, Xavier D. Quintana, & Daniel Boix (2023). Ecological restoration promotes zooplankton network complexity in Mediterranean coastal lagoons. Restoration Ecology 31 (5) e13920.
6. Ana Borthagaray, **David Cunillera-Montcusí**, Jordi Bou, Irene Tornero; Dani Boix, Maria Anton-Pardo, Esteban Ortiz, Thomas Mehner, Xavier D. Quintana, Stéphanie Gascón, & Matias Arim (2023). Heterogeneity in the isolation of patches may be essential for the action of metacommunity mechanisms. Frontiers in Ecology and Evolution 11, <https://www.frontiersin.org/articles/10.3389/fevo.2023.1125607>.
7. Lena Fehlinger, Benjamin Misteli¹, Daniel Morant, Noël Juvigny-Khenafou, **David Cunillera-Montcusí**, Fernando Chaguaceda, Olivera Stamenković, Julie Fahy, Vojtěch Kolář, Dariusz Halabowski, Liam N. Nash, Ellinor Jakobsson, Veronica Nava, Pietro Tirozzi, Pablo Urrutia Cordero, Julien Mocq, Alba Camacho Santamans, Jose Manuel Zamora-Marín, Pierre Marle, Teofana Chonova, Luca Bonacina, Margaux Mathieu-Resuge, Ena Suarez, Stephen E. Osakpolor, Pablo Timoner, Vesela Evtimova, Darmina Nita, Bruno M. Carreira, Kálmán Tapolczai, Joana Martelo, Rémi Gerber, Valentin Dinu, Jorge Henriques, Géza B. Selmečy & Biljana Rimcheska (2023). The

ecological role of permanent ponds in Europe: a review of dietary linkages to terrestrial ecosystems via emerging insects. *Inland Waters*, 13, 30–46.

8. Miriam Colls, Aida Viza, Aitziber Zufiarre, Alba Camacho-Santamans, Alex Laini, Alexia Maria González-Ferreras, Ana Filipa Filipe, Ana Victoria Pérez-Calpe, Anna Freixa, Anna Lupon, Anna C. Santamans, Arunava Pradhan, Carmen Espinosa, Carmen Vera-Trujillo, Cayetano Gutiérrez-Cánovas, Clara Mendoza-Lera, Daniel Bruno, Daniel Mercado-Bettin, Daniel Morant, Daniela Batista, **David Cunillera-Montcusí**, Diana Graça, Eduard Vico-Oton, Edurne Estévez, Elizabeth Leon-Palmero, Ena Lucia Suarez, Encarnación Fenoy, Eva Lima, Félix Picazo, Francisco J. Oficialdegui, François Keck, Giulia Gionchetta, Ibor Sabas, Ignacio Pérez-Silos, Ilisa Antunes, Inmaculada Alvarez-Manzaneda, Ioar de Guzmán, Isabel Fernandes, Janine Pereira da Silva, Jing Wei, Jorge Juan Montes-Pérez, José Trabulo, José L. J. Ledesma, José Maria Fernandez-Calero, José Pedro Ramião, Juan Rubio-Rios, Juan David Gonzalez-Trujillo, Laura Barral-Fraga, Laura Jiménez, Lidia Vendrell-Puigmitja, Lluís Bertrams, Lluís Gomez-Gener, Lorenzo Rovelli, Lukas Thuile-Bistarelli, Marc Sanchez-Morales, Marco J. Cabrerizo, Maria Aranguren-Gassis, Maria Argudo, Maria J. Navarro-Ramos, Miren Atristain, Naiara Lopez-Rojo, Nicolás Valiente, Nuria Perujo, Olatz Pereda, Oriana Llanos-Paez, Oscar Belmar, Osvaldo Tascon-Peña, Pablo Rodriguez-Lozano, Raquel Sánchez de Pedro, Rebeca Arias-Real, Rossano Bolpagni, Rubén del Campo, Silvia Poblador, Simone Guareschi, Stephan Hilgert, Sofia Duarte, Tamara Rodriguez-Castillo, Teofana Chonova, Teresa Conejo-Orosa, Vanessa Céspedes, Verónica Granados, Victor Osorio, Víctor Vázquez, Víctor Martín-Vélez & Ferran Romero (2023). Impacts of diffuse urban stressors on stream benthic communities and ecosystem functioning: A review. *Limnetica* 43 (1)
9. Damiano Baldan, **David Cunillera-Montcusí**, Andrea Funk, Thomas Hein. riverconn: An R package to assess river network fragmentation (2022). Introducing 'riverconn': An R package to assess river connectivity indices. *Environmental Modelling & Software*, 156, 105470.
10. Miriam Gerhard, Apostolos-Manuel Koussoroplis, Michael Raatz, Christian Pansch, Samuel B. Fey, Jahangir Vajedsamiei, Maria Calderó-Pascual, **David Cunillera-Montcusí**, Noël P. D. Juvigny-Khenafou, Francesco Polazzo, Patrick K. Thomas, Celia C. Symons, Meryem Beklioglu, Stella A. Berger, Rosa M. Chefaoui, Kemal A. Ger, Silke Langenheder, Jens C. Nejtgaard, Robert Ptacnik, & Maren Striebel (2022). Environmental variability in aquatic ecosystems: Avenues for future multifactorial experiments. *Limnology and Oceanography Letters* 8 (2), 247-266.
11. **David Cunillera-Montcusí**; Meryem Beklioglu; Miguel Cañedo-Argüelles; Erik Jeppesen; Robert Ptacnik; Cihelio Alves; Shelley Arnott; Stella Berger; Sandra Brucet; Hilary Dugan; Miriam Gerhard; Zsófia Horváth; Silke Langenheder; Jens Nejtgaard; Marko Reinikainen; Maren Striebel; Pablo Urrutia-Cordero; Csaba Vad; Egor Zadereev; Miguel Matias (2022). Freshwater salinisation perspectives: a research agenda for a saltier world. *Trends in Ecology and Evolution*. *Trends in Ecology and Evolution* 37 (5), 440-453.
12. David Pineda; José María Fernández-Calero; Sebastian Pölsterl; **David Cunillera-Montcusí**; Núria Bonada; Miguel Cañedo-Argüelles (2022). Local hydrological conditions and spatial isolation shape invertebrate communities during rewetting in temporary rivers. *Hydrobiologia* 849, 1511–1530.
13. **David Cunillera-Montcusí**; Dani Boix; Irene Tornero; Xavier D. Quintana; Jordi Sala; Stéphanie Gascón. (2021). Recovery of temporary pond alpha and beta diversity after wildfire disturbance: the role of dispersal and recolonization processes. *Inland Waters* 11 (4), 522-537.
14. Xavier D. Quintana; Maria Antón-Pardo; Maria Bas-Silvestre; Dani Boix; Xavier Casamitjana; Jordi Compte; **David Cunillera-Montcusí**; Stéphanie Gascón; Anna Menció; Biel Obrador; Irene Tornero; Jordi Sala. (2021). Identifying critical transitions in seasonal shifts of zooplankton composition in a confined coastal salt marsh. *Aquatic Sciences* 83, 69.
15. Yasmina Djitli; Dani Boix; Amel Milla; Faiza Marniche; Irene Tornero; **David Cunillera-Montcusí**; Jordi Sala; Stéphanie Gascón; Xavier D. Quintana; Samia Daoudi-Hacini. (2021). Annual cycle of water quality and macroinvertebrate composition in Algerian wetlands: a case study of lake Réghaïa (Algeria). *Limnetica* 40(2): 399-415.

16. **David Cunillera-Montcusí**; Ana Inés Borthagaray; Dani Boix; Stéphanie Gascón; Jordi Sala; Irene Tornero; Xavier D. Quintana, Matías Arim (2021). Metacommunity resilience against simulated gradients of wildfire: disturbance intensity and species dispersal ability determine landscape recover capacity. - *Ecography*. 44: 1022–1034. DOI: 10.1111/ecog.05347
17. **David Cunillera-Montcusí**; Dani Boix; Jordi Sala; Jordi Compte; Irene Tornero; Xavier D. Quintana; Stéphanie Gascón (2020). Large- and small-regional-scale variables interact in the dispersal patterns of aquatic macroinvertebrates from temporary ponds. *Aquatic Ecology*. *Aquatic Ecology* 54 (4): 1041–1058. DOI: 10.1007/s10452-020-09792-8
18. **David Cunillera-Montcusí**; Matías Arim; Stéphanie Gascón; Jordi Sala; Irene Tornero; Dani Boix; Ana Borthagaray (2020). Addressing trait selection patterns in temporary ponds in response to wildfire disturbance and seasonal succession. *Journal of Animal Ecology*. 89:2134–2144. DOI: <https://doi.org/10.1111/1365-2656.13265>
19. **David Cunillera-Montcusí**; Stéphanie Gascón; Irene Tornero; Jordi Sala; Núria Àvila; Xavier D. Quintana; Dani Boix. Direct and indirect impacts of wildfire on faunal communities of Mediterranean temporary ponds. *Freshwater Biology*. 64-2, pp. 323-334. DOI: <https://doi.org/10.1111/fwb.132>
20. Santiago Cabrera; Jordi Compte; Stéphanie Gascón; Dani Boix; **David Cunillera-Montcusí**; Lucas Barrero; Xavier D. Quintana. (2019). How do zooplankton respond to coastal wetland restoration? the case of newly created salt marsh lagoons in la Pletera (NE Catalonia). *Limnética*. 38-2, pp. 721-741. Asociación Ibérica de Limnología. DOI: <https://doi.org/10.23818/limn.38.42>.
21. Jordi Sala; Stéphanie Gascón; **David Cunillera-Montcusí**; Miguel Alonso; Francisco Amat; Luís Cancela da Fonseca; Margarida Cristo; Margarita Florencio; Juan Garcia-De-Lomas; Margarida Machado; María Rosa Miracle; Alexandre Miró; José Luis Pérez-Bote; Joan Lluís Pretus; Florent Prunier; Javier Ripoll; Juan Rueda; María Sahuquillo; Laura Serrano; Marc Ventura; David Verdiell-Cubedo; Dani Boix (2017). Defining the importance of landscape metrics for large branchiopod biodiversity and conservation: the case of the Iberian Peninsula and Balearic Islands. *Hydrobiologia*. 801-1, pp. 81-98. DOI: <https://doi.org/10.1007/s10750-017-3293-1>

Research monographs, book chapters:

1. Dani Boix; Núria Bonada; Isabel Muñoz; Enrique Baquero; Rafael Jordana; **David Cunillera-Montcusí**; Irene Tornero; Pau Fortuño; Raúl Acosta; Stéphanie Gascón; Jordi Sala. Class Hexapoda: General Introduction. In Maasri & Thorp (Eds.) *Identification and Ecology of Freshwater Arthropods in the Mediterranean Basin*. Elsevier. Manuscript under review.
2. Xavier D. Quintana; Dani Boix; Xavier Casamitjana; Àngel Colomer; Jordi Compte; **David Cunillera-Montcusí**; Stéphanie Gascón; Frederich Gich; Anna Menció; Monica Martinoy; Joan Montaner; Josep Pascual; Jordi Sala; Joan Solà; Irene Tornero. (2018). Management and restoration actions of confined Mediterranean coastal lagoons in the Empordà and Baix Ter wetlands. *Management and restoration of Mediterranean coastal lagoons in Europe*. 10, pp. 173 - 192. ISSN: 2013-5939
3. **David Cunillera-Montcusí**. (2016). Burning waters: wildfire effects on aquatic systems. Doctoral program on water science and technology. 1, pp. 43-45. Universitat de Girona. Publication services. ISBN: 9788484584735.

Reviews for international journals:

- 2023: Ecological indicators, Science of the Total Environment
- 2022: Aquatic Sciences, Fundamental and Applied Limnology, Journal of Biogeography, Limnology & Oceanography
- 2021: Hydrobiologia, Journal of Plankton research
- 2020: Freshwater biology, Global change biology, Community ecology, Hydrobiologia
- 2019: Hydrobiologia

Research Projects

Obtained project funding:

1. 2023-2025 - **Meta-Heroes**: METAcommunities and tHE ROle of habitat networks in safeguarding against biodiversity loss under fragmentation and environmental stress postdoctoral project. Marie Skłodowska-Curie Actions Postdoctoral Fellowships 2021. European research executive agency.
2. 2022-2023: **Margarita Salas fellowship**. Funded by the European Union -NextGenerationEU, Ministerio de Universidades y Plan de Recuperación, Transformación y Resiliencia, throughout a competitive call in Universitat de Girona.
3. 2015-2019 - **Resilience of aquatic metacommunities: Implications for disturbance recovery**. PhD funding scholarship FPU (Formación de profesorado universitario). University professor formation grant from the Spanish ministry of Education, Culture and Sport. Formación de profesorado Universitario (FPU14/06783).

Participation in national & international projects

1. 2023-2027 - **DRY-Guadalmed**: Herramientas avanzadas para la evaluación del estado ecológico de ríos temporales mediterráneos durante la fase seca: dinámica de metacomunidades para mejorar el biomonitorio. Spanish government Ministerio de Ciencia e Innovación PID2021-126143OB-C21
2. 2021-2025 - **DRYVER**: Securing biodiversity, functional integrity and ecosystem services in DRYing riVER networks. European Union's Horizon 2020 under grant agreement No 869226.
3. 2018-2021 - **GLOBIOS**: Global observatory network for freshwater biodiversity in high mountain streams. 3rd ERANet-LAC Joint Call (ERANet17/BDS-0065)
4. 2021-2025 - **FCE**: Proyecto de investigación Fundamental Fondo Clemente Estable - 2021 (FCE_1_2021_1_167009.). Ambiente, energía y temperatura como determinantes de patrones latitudinales de diversidad en un contexto metacomunitario.
5. 2022-2026 - **CSIC-grupos**: Dinámica de metacomunidades: azar, determinismo, memoria y forzantes ambientales (ID 657725)
6. 2022-2024 - **ACROSS**: LATitudinal gradients of speCies Richness and bOdy-Size Spectrum in multiple trophic levels and ecosystems. Advanced early career researchers project grant (Advanced ECR) in the Second call of SIBECOL.
7. 2018-2021 - **MECODISPER**: Avances en ecología de metacomunidades en ríos intermitentes para la mejora de su conservación y gestión. Spanish government Ministerio de Economía y Competitividad CTM2017-89295-P
8. 2021-2024 - **Fun-Meta-Net**: Species-functional metanetworks for biodiversity assessment at the regional scale (Fun-Meta-Net). Spanish government Ministerio de ciencia e innovación - Convocatoria 2020 Proyectos de I+D+i. 114440GB-I00
9. 2020-2024 - **PONDERFUL**: POND Ecosystems for Resilient Future Landscapes in a changing climate. European Union's Horizon 2020 under grant agreement No 869296.
10. 2020-2024 - **AQUACOSMplus**: European Union's Horizon 2020 under grant agreement No 871081
11. 2020-2022 - **EUROPONDS**. European FreshProjects. European federation for freshwater sciences.
12. 2019-2022 - **URBIFUN**: Young Iberian Limnology Association projects. AIL.
13. 2016-2018 - MPCUdG2016/049: University of Girona (UdG).
14. 2016-2020 - **CoMeDy**: Spanish government. Ministerio de Economía y Competitividad. CGL2016-76024-RStart
15. 2014-2018 - **LIFE Pletera**: LIFE13 NAT/ES/001001. Deurbanization and restoration of Platera's marsh. DG Environment. European Commission (ENV). Project awarded with the EUROPARC federation in the climate change category and the Global Low-Carbon Ecological Scenic award of the Global Forum on Human Settlements from the United Nations
16. 2012-2015 - **RETROMED**: Spanish government. Ministerio de Ciencia e Innovación (MICINN). CGL2011-23907

Review of international projects:

1. 2023: NRDH Hungarian office

Academic experience

Academic years 2022 – 2023

- PhD co-supervision of Nieves López Rodríguez in the thesis linked to the Globios and TRiversP projects: Fundamental and applied uses of metabarcoding techniques for aquatic macroinvertebrates in Mediterranean rivers.
- PhD co-supervision of Guillermo Quevedo in the thesis linked to the MECODISPER project: Diatom communities in intermittent streams: metacommunity dynamics and biomonitoring implications.
- PhD co-supervision of José María Fernández Calero in the thesis linked to the MECODISPER project (PhD scholarship from the Spanish Ministry grant linked to project funding) entitled: Caracterización de las metacomunidades de macroinvertebrados en ríos intermitentes mediterráneos (Parque Natural de Sant Llorenç del Munt i l'Obac).
- 03/11/2022-09/11/2022: Participation in *Advances in Ecology*. Master in Ecology and Management of the Natural Environment. University of Barcelona.

Academic years 2021 – 2022

- 01/10/2022-31/10/2022: Participation in *Advances in Ecology*. Master in Ecology and Management of the Natural Environment. University of Barcelona.

Academic years 2020 – 2021

- 01/04/2021 to 30/09/2021: Supervision of a student project (MEC8) within the Masters of Ecology and Evolution program at University of Vienna.
- 17/02/2021: Temporary aquatic systems & Aquatic diversity. Masters of Ecology and Evolution program at University of Vienna

Academic years 2018 - 2019

- 18/04/2019 to 22/04/2019: Marine ecology practices 4th year of environmental and biology grade. University of Girona
- 12/03/2019 to 30/04/2019: Population ecology field practices. 3d year of Biology degree. University of Girona.
- 05/03/2019 to 06/03/2019: Lacustrine ecology field laboratory practices. 4th year of Biology and Environmental sciences. University of Girona
- 19/11/2018: Conference on the effects of wildfires on aquatic ecosystems. Applied Ecology subject, 4th year of Biology and Environmental Sciences degrees. University of Girona.
- 09/11/2018: Applied Ecology field practices. Field trip. University of Girona.
- 08/11/2018: Session on the effects of wildfires in aquatic ecosystems. Applied ecology, 4th of Biology and Environmental science degrees. University of Girona

Academic years 2017 – 2018

- 17/05/2018: Lacustrine Ecology field practices. University of Girona
- 12/03/2018 to 27/04/2018: Field practices for the subject Population Ecology. University of Girona
- 16/04/2018 to 20/04/2018: Marine ecology practices. University of Girona

Academic years 2016 – 2017

- 06/03/2017 to 28/04/2017: Field practices in Population Ecology subject. 3d of Biology and Environmental sciences degrees. University of Girona.
- 03/03/2017: Field practices in the subject Lacustrine Ecology. 4th of the Biology and Environmental sciences degrees. University of Girona

- 29/11/2016: Session on the effects of wildfires in aquatic ecosystems. Applied ecology, 4th of Biology and Environmental science degrees. University of Girona.
- 29/11/2016: Applied ecology field practices. University of Girona.
- 17/11/2016: General ecology field practices. University of Girona.

Academic years 2015 – 2016

- 20/11/2015: Session in wildfire impact on Mediterranean temporary ponds. University of Girona.

Works submitted to national or international conferences.

First authorship:

2023

- 2 Oral communications. Symposium of European Freshwater Scientists (SEFS 13).
- 1 Oral communications. Aquatic Sciences Meeting (ASLO 2023).

2022

- 1 Oral poster communication. British Ecological Society annual meeting (BES2022).
- 3 Oral communications. 2nd Meeting of the Iberian Ecological Society (SIBECOL), the XXI conference of the Iberian Association of Limnology (AIL), and the 21st National Congress of Ecology of the Portuguese Ecological Society – SPECO.

2021

- 2 Oral communications. 12th Symposium for European Freshwater Sciences, SEFS12 (Online conference).
- Oral communication. Aquatic Sciences Meeting, ASLO (Online conference).
- 2 Oral communications. Shallow Lakes Conference 2021 (Online conference).

2020

- Oral poster. Temporary wetlands future in drylands under the projected global change scenario. International Conference. Baeza, Spain. International University of Andalucía (UNIA).

2019

- Oral communication. 11th Symposium for European Freshwater Sciences. International conference. Zagreb, Croatia. European Federation for Freshwater Sciences.
- Oral poster. XVII Jornades Herpetològiques catalanes. Regional conference. Girona, Catalonia (Spain). Catalan herpetological society.

2018

- Oral communication. 8th European Pond Conservation Network Workshop. International conference. Torroella de Montgrí (Girona), Spain. European pond conservancy network
- Oral communication. Oikos 2018. International conference. Trondheim, Norway. Nordic society OIKOS.

2017

- Oral communication. 7th European Pond Conservation Network Workshop. International conference. Faro, Portugal. European pond conservancy network. Awarded as the best student conference student oral communication.

2016

Oral communication. XVIII Congress of the Iberian Association of Limnology. Tortosa, Catalunya (Spain). Iberian limnological association. Awarded as the second-best conference student oral communication.

2015

Oral poster. International Symposium on Mediterranean Temporary Ponds. Sassari, Sardinia (Italy). Paulis project and EPCN

Oral poster. Wetlands Biodiversity and Services: Tools for Socio-Ecological Development. Huesca, Spain. Wetlands and EPCN associations.

Other contributions to national or international conferences:

2023

Fernandez-Calero et al. Symposium of European Freshwater Scientists (SEFS 13).

Quevedo-Ortiz et al. Symposium of European Freshwater Scientists (SEFS 13).

Henna Snare et al. Oikos Finland 2023.

Stephanie ASLO

2022

Felipe Maresca et al. British Ecological Society annual meeting (BES2022).

2021

Jens Nejstgaard et al. AQUACOSM-plus: an International Network for Aquatic Mesocosm Facilities Supporting Experimental Ecosystem Studies and cross-disciplinary RI-RI collaborations

2020

Jordi Compte et al. Temporary wetlands future in drylands under the projected global change scenario.

Xavier D. Quintana et al. 1st Meeting of the Iberian Ecological Society & XIV AEET.

2019

Stéphanie Gascón et al. 11th Symposium for European Freshwater Sciences.

Irene Tornero et al. 11th Symposium for European Freshwater Sciences.

2018

Santiago Cabrera et al. 8th European Coastal Lagoons Symposium.

Jordi Compte et al. 8th European Coastal Lagoons Symposium

Stephanie Gascón et al. 7th European Pond Conservation Network Workshop

Organisation of international conferences

2023- **Special session** organization at the Symposium of European Freshwater Sciences (SEFS13): Freshwater salinization: causes, consequences and management

2023- **Special session** organization at the Aquatic Sciences Meeting (2023): *The relevance of small systems: pond ecology in a changing world.*

2022- **Special session** organization at the 2nd Meeting of the Iberian Ecological Society (SIBECOL), the XXI conference of the Iberian Association of Limnology (AIL), and the 21st National Congress of Ecology of the Portuguese Ecological Society – SPECO: *Meta-systems ecology across boundaries: new insights to advance the science and management of aquatic and terrestrial ecosystems*

2021- **Special session** organization for the 12th Symposium for European Freshwater Sciences, SEFS12: *Aquatic metacommunity ecology in depth: ecosystems, scales and applications*.

2018 - **Organizing committee member** of the 8th European Coastal Lagoons Symposium. University of Girona as a host institution.

2017 - **Organizing committee member** of the doctoral meeting for doctoral students (UdG.doc doctoral association). University of Girona (Spain)

Research societies membership:

2022 to present: Member of the British Ecological Society (BES).

2018 - 2020 Member and observer student in the European pond conservation network committee.

2017 to present: Member of European pond conservation network (EPCN).

2016 – 2020. Member of the Institute of Aquatic Ecology. University of Girona (IEA).

2016 to present: Member of the Iberian limnological association (AIL).

Grants and mobility funding

2020 - Attendance grant for the presentation Wildfire impacts on faunal communities of Mediterranean temporary ponds in the Temporary wetland's future in drylands under the projected global change scenario. University of Jaén.

2017 - Mobility grant for short stays or temporary transfers. Spanish ministry of Education, Culture and Sport (EST16/00854) for a 3 month stay in Uruguay.

2016 - Attendance grant for the presentation Wildfire impact on Mediterranean temporary ponds in the VIII Congreso de la Asociación Ibérica de Limnología. Asociación Iberica de Limnología.

2014 - Excellence masters grant. Grant to study an official excellence master. Fundació Catalunya la Pedrera. Private foundation devoted to natural conservation.

Prizes and Awards

2020 - Cum Laude recognition and international mention for the PhD Thesis: *Resilience of aquatic metacommunities Implications for disturbance impacts and recovery*.

2017 - 1st price to the best student oral presentation in the 7th European Pond Conservation Network Conference with the presentation: Interaction between temporary pond isolation and faunal dispersal ability

2016 - 2d price to the best student oral presentation in the XVIII Congreso de la Asociación Ibérica de Limnología. With the presentation Wildfire impact on Mediterranean temporary ponds