

# JOAN CASANELLES ABELLA

Postdoctoral Researcher  
Technical University of Munich (TUM)  
[Joan.casanelles92@gmail.com](mailto:Joan.casanelles92@gmail.com) (he/him)

Google Scholar ID: <https://scholar.google.com/citations?hl=ca&user=UHThWFIAAAAJ>  
ResearchGate: <https://www.researchgate.net/profile/Joan-Casanelles-Abella>  
Publons: <https://publons.com/researcher/4652850/joan-casanelles-abella/>  
OrcID: <https://orcid.org/0000-0003-1924-9298>  
iNaturalist: <https://www.inaturalist.org/people/joan57>

## EDUCATION

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- 05.2017 – 01.2022      **PhD in Environmental Sciences. Swiss Federal Institute WSL, Switzerland & Swiss Federal Institute of Technology Zurich ETHZ, Switzerland**  
*Thesis:* “Looking at cities with novel lenses: studying urban biodiversity across spatial and ecological scales”  
*Committee:* Dr. Marco Moretti, Prof. Dr. Loïc Pellissier, Prof. Dr. Monika Egerer and Dr. Anthony D. Vaudo  
*Defense date:* 28.01.2022
- 08.2015 – 08.2017      **M.Sc. in Ecology and Evolution. University of Amsterdam, The Netherlands & Vrije Universiteit Amsterdam, The Netherlands**  
*Thesis 1:* “Strategies for applying a robust measure of effect size in microbiome studies”  
*Thesis 2:* “Bee (Hymenoptera: Anthophila) and hoverfly (Diptera: Syrphidae) responses to three types of urban nature in the area of Amsterdam, the Netherlands”  
*Thesis 3:* “Fire as the fuel of the evolutionary engine: a review in the Mediterranean biome”  
*Advisors:* Dr. James Weedon, Dr. JGB (Gerard) Oostermeijer and Dr. GJJ (Gerard) Driessen, Prof. Dr. JHC (Hans) Cornelissen  
Awarded *cum laude* distinction.
- 09.2010 – 07.2015      **B.Sc. in Biology. Minor in Biodiversity. University of Barcelona, Spain**  
*Thesis:* “Pollinator diversity and abundance in highly intensified agroecosystems”  
*Advisor:* José Manuel Blanco
- Research stays*  
02.2022      **Visiting scholar (PhD) at Universidad Nacional de Córdoba, Argentina.**  
*Hosts:* Dr. Silvina Fenoglio and Dr. Martín Villena

## EMPLOYMENT HISTORY

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### *Current position*

02.2024–02.2026      **SNF Postdoc.Mobility fellow, TUM, Germany**  
*Project:* BiodiverCITIES  
*Supervisor:* Prof. Dr. Monika Egerer

### *Former positions*

03.2023–11.2023      **Postdoctoral researcher, EAWAG, Switzerland.**  
*Project:* “PAPPUS”  
*Supervisors:* Dr. Laurent Cook

03.2022–02.2023      **Postdoctoral researcher, WSL & ETH Zurich, Switzerland.**  
*Project:* “BioVEINS: Connectivity of urban green infrastructure, the living veins of a healthy city”

07.2020-11.2020	Supervisors: Dr. Marco Moretti and Prof. Dr. Loïc Pellissier <b>Research staff, WSL, Switzerland</b> Project: “Stadtbäume der Zukunft. Forschungsbericht des Vorprojekts zH Grün Stadt Zürich”
06.2020-06.2021	Supervisors: Dr. Marco Moretti and Dr. Silvia Tobias <b>Research staff, WSL, Switzerland</b> Project: “City4Bees”
03.2014 – 07.2015	Supervisors: Dr. Marco Moretti & Dr. Debora Zaugg <b>Intern. Documentation Center of Vegetal Biodiversity (CEDOCBIV), Spain.</b> Supervisor: Dr. Roser Guàrdia

## RESEACH SUPPORT AND FUNDING

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### *Fellowships*

2023	<b>SNF Postdoc.Mobility</b> Duration: 2 years Institution: TUM Grant number: 217754 Funds: 102.00 CHF
2023	<b>Humboldt fellowship</b> (declined for another grant, SNF Postdoc.Mobility) Duration: 2 years Institution: TUM Funds: ca. 65'000 €

### *Research grants*

03.2020 – 02.2023	Project City4Bees (Project number 2019-2917/1.1) Co-PI with Dr. Marco Moretti (WSL) Funders: Federal Office for the Environment FOEN and Ernst Göhner Stiftung Funds: ca. 100'000 CHF
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### *Awards*

2017	<b>Cum laude</b> award for the Master degree
2020	<b>Winning project in Climathon Zurich 2020</b> 14.11.2020 “Green it!”

## PUBLICATIONS

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Total publications: 17, First author or first shared-co-authorship: 10, Citations (ISI): 263, h-index (ISI): 9

### *Publications in international peer-reviewed scientific journals*

**Casanelles-Abella, J.**; ..., Moretti, M. 2025. Data on the diet and nutrition of urban and rural bumblebees. Scientific Data 2, 286 (2025). <https://doi.org/10.1038/s41597-025-04585-w>

**Casanelles-Abella, J.**; Egerer, M. 2024. Special Issue: The ecology of future cities. Basic and Applied Ecology. Accepted doi: 10.1016/j.baae.2025.01.002

Martinez-Núñez, C.; **Casanelles-Abella, J.**; Frey, D.; Zanetta, A.; Moretti, M. 2024. Local and landscape factors shape alpha and beta trophic interaction diversity in urban gardens. *Proceedings Royal Society B*, 291, 20232501. doi: 10.1098/rspb.2023.2501

**Casanelles-Abella, J.**; A., Aleixo, C.; Orti, M.A.; Chiron, F.; Deguines, N.; Hallikma, T.; Laanisto, L.; Pinho, P.; Samson, R.; Tryjanowski, P.; Mensel, A. Van; Pellissier, L. & Moretti, M. 2024. Habitat amount, temperature and biotic interactions drive community structure, life-history traits, and performance traits of cavity-nesting bees and wasps and their natural enemies in cities. *Insect Conservation and Diversity*, 17(2), 243–258. doi: [10.1111/icad.12728](https://doi.org/10.1111/icad.12728)

Chiron, F., Lorrillière, R., Bessa-Gomes, C., Tryjanowski, P., **Casanelles-Abella, J.**, Laanisto, L., ... & Deguines, N. 2024. How do urban green space designs shape avian communities? Testing the area–heterogeneity trade-off. *Landscape and Urban Planning*, 242, 104954, doi: <https://doi.org/10.1016/j.landurbplan.2023.104954>

Rossi-Rotondi, B.; **Casanelles-Abella, J.**; Fontana, S.; Moretti, M.; Videla, M.; Fenoglio, M. S. 2023. Floral species evenness is the major driver of wild bee communities in urban gardens. *Urban Ecosystems*, 27, 159–171. doi: [10.1007/s11252-023-01440-x](https://doi.org/10.1007/s11252-023-01440-x)

**Casanelles-Abella J.**; Moretti, M.; Fontana, S.; Fournier, B. 2023. Countrywide wild bee taxonomic and functional diversity reveal a spatial mismatch between alpha and beta-diversity facets across multiple ecological gradients. *Conservation Biology*, 37, e14082. doi:10.1111/cobi.14082

Van Melsen, A.; Wuyts, K.; Pinho P.; Muyschondt, B.; Aleixo, C.; Alos Orti, M.; **Casanelles-Abella, J.**; Chiron, F.; Hallikma, T.; Laanisto, L.; Moretti, M.; Niinemets, U.; Tryjanowski, P.; Samson, R. 2023. Magnetic signal of urban trees' trunk bark catches the variation in particulate matter exposure within and across six European cities. *Environmental Science and Pollution Research*, 30 (17), 50883-50895. doi: 10.1007/s11356-023-25397-8

**Casanelles-Abella, J.**; Fontana, S.; Fournier, B.; Frey, D.; Moretti, M. 2022. Low resource availability drives feeding niche partitioning between wild bees and honey bees in cities. *Ecological applications*, 33(1), 1-17. doi: 10.1002/eap.2727.

**Casanelles-Abella, J.**; Keller, A.; Müller, S.; Aleixo, C.; Alós-Orti, M.; Chiron, F.; Laanisto, L.; Myczko, L.; Pinho, P.; Tryjanowski, Van Mensel, L.; Villarroja-Villalba, L.; Pellissier, L.; Moretti, M. 2022. Wild bee larval food composition in five European cities. *Ecology*, 103(9), 2-3. doi: 10.1002/ECY.3740

Muyschondt, B., Wuyts, K., Van Mensel, A., Smets, W., Lebeer, S., Aleixo, C., **Casanelles-Abella J.**; ... & Samson, R. 2022. Phyllosphere bacterial communities in urban green areas throughout Europe relate to urban intensity. *FEMS Microbiology Ecology*, 98(10), fiac106. doi: 10.1093/femsec/fiac106

Rocha, B.; Matos, P.; Giordani, P.; Piret, L.; Branquinho, C.; **Casanelles-Abella, J.**; Aleixo, C.; Deguines, N.; Hallikma, T.; Laanisto, L.; Moretti, M.; Alós Ortí, M.; Samson, R.; Tryjanowski, P.; Pinho, P. 2022. Testing lichens as ecological indicators of the effects of multiple global change drivers in European cities at the broad spatial scale. *Environmental pollution*, 315, 120330, doi: 10.1016/j.envpol.2022.120330

Alós Ortí, M.; **Casanelles-Abella, J.**; Chiron, F.; Deguines, N.; Hallikma, T.; Jaks, P.; Kwiatkowska, P.K.; Moretti, M.; Muyschondt, B.; Niinemets, Ü.; Pinho, P.; Pinto, M.J.; Saar, P.; Samson, R.; Tryjanowski, P.; Van Mensel, A. & Laanisto, L. 2022. Negative relationship between woody species density and urban green areas in seven European cities. *Urban Greening and Urban Forestry*, 74, 127650. doi: 10.1016/j.ufug.2022.127650

**Casanelles-Abella, J.** and Moretti, M., 2022. Challenging the sustainability of urban beekeeping: evidence from Swiss cities. *npj Urban Sustainability*, 2(1), 3. doi: 10.1038/s42949-021-00046-6

**Casanelles-Abella, J.**; Müller, S.; Keller, A.; Aleixo, C.; Orti, M.A.; Chiron, F.; Deguines, N.; Hallikma, T.; Laanisto, L.; Pinho, P.; Samson, R.; Tryjanowski, P.; Mensel, A. Van; Pellissier, L. & Moretti, M., 2022. How wild bees find a way in European cities: pollen metabarcoding unravels multiple feeding strategies and their effects on distribution patterns in four wild bee species. *Journal of Applied Ecology*, 59(2), 457-470. doi: 10.1111/1365-2664.14063

**Casanelles-Abella, J.**; Frey, D.; Müller, S.; Aleixo, C.; Alós Ortí, M.; Deguines, N.; Hallikma, T.; Laanisto, L.; Niinemets, Ü.; Pinho, P.; Samson, R.; Villarroja-Villalba, L.; Moretti, M., 2021. A dataset of the flowering plants (Angiospermae) in urban green areas in five European cities. *Data in Brief*, 37, 107243. doi: 10.1016/j.dib.2021.107243

Pinho, P.; **Casanelles-Abella, J.**; Luz, A.C.; Kubicka, A.M.; Branquinho, C.; Laanisto, L.; Neuenkamp, L.; Alós Ortí, M.; Obrist, M.K.; Deguines, N.; Tryjanowski, P.; Samson, R.; Niinemets, Ü.; Moretti, M., 2021. Research agenda on biodiversity and ecosystem functions and services in European cities. *Basic and Applied Ecology*, 54, 123-133. doi: 10.1016/j.baae.2021.02.014

**Casanelles-Abella, J.**; Chauvier, Y.; Zellweger, F.; Villiger, P.; Frey, D.; Ginzler, C.; Moretti, M.; Pellissier, L., 2021. Applying predictive models to study the ecological properties of urban ecosystems: a case study in Zürich, Switzerland. *Landscape and Urban Planning*, 214, 104137 doi: 10.1016/j.landurbplan.2021.104137

Villarroya-Villalba, L.; **Casanelles-Abella, J.**; Moretti, M.; Pinho, P.; Samson, R.; Van Mensel, A.; Chiron, F.; Zellweger, F.; Obrist, M.K., 2021. Response of bats and nocturnal insects to urban green areas in Europe. *Basic and Applied Ecology*, 51, 59-70. doi: 10.1016/j.baae.2021.01.006

➤ Shared first co-authorship

### ***Submitted but not yet accepted or published publications***

**Casanelles-Abella, J.**; ..., Chauvier, Y. Urban biogeography to enhance city ecosystems for people and nature. *Nature Cities*. In review.

Selva, S.; ..., **Casanelles-Abella, J.** Urban bumblebees diversify their foraging strategy to maintain nutrient intake. *Proceedings Royal Society B*. In review

Chako, M.; Albouy, C.; Altermatt, F.; **Casanelles-Abella, J.**; ..., Pellissier, L. trophiCH -a national species-level trophic metaweb of 23k species for Switzerland. *Scientific Data*. In review

**Casanelles-Abella, J.**; ..., Egerer, M. Honeybee dominance patterns across cities worldwide. *The American Naturalist*. In review.

### ***Reports for the government***

**Casanelles-Abella, J.**; Müller, S.; Moretti, M.; Tobias, S.; Saluz, A.; Heinrich, A.; Tausendpfund, D.; Krieger, M.; Schindler, A., 2021. Stadtbäume der Zukunft. Forschungsbericht des Vorprojekts zH Grün Stadt Zürich. 65 p.

**Casanelles-Abella, J.**; Frey, D.; Moretti, M., 2021. City4Bees. Wild bees and honeybees and their resources in cities. Final report for the Federal Office for the Environment (FOEN). 34 p.

### ***Outreach publications***

Leimgruber, M.; **Casanelles-Abella, J.**; Moretti, M., 2020. N+L.

**Casanelles-Abella, J.** 2018: La conservació d'abelles en zones urbanes. *Brots*, 9, 22: 18-21.

**Casanelles-Abella, J.** 2021: Uncovering what urban wild bees are feeding on to better promote them in cities. *The Applied Ecologist*

### ***Outreach documentaries***

Fröhlich, B. Das Imkern in der Stadt boomt. *NANO*. <https://www.3sat.de/wissen/nano/220520-bienen-nano-104.html>

### ***Press releases***

Galliker, F., 2022. Excessive beekeeping in Swiss cities could be detrimental for wild bees and honeybees. *WSL News*

**Casanelles-Abella, J.** Ed. Kusma, S., 2021. What urban bees feed on. *News WSL*. Link: <https://www.wsl.ch/en/news/2021/11/what-urban-bees-feed-on.html>

Bose, L., 2021. Zurich home to some rare species. *WSL News*. Link: <https://www.wsl.ch/en/news/2021/09/zurich-home-to-some-rare-species.html>

### ***Outreach interviews***

Interview for dezeen: Hahn, J., 2022. “**Study finds cities lack green spaces to support "unsustainable" beekeeping boom**”. Link: <https://www.dezeen.com/2022/01/27/urban-beekeeping-sustainability-study/>

Interview for Bloomberg CityLab: Matteucci, L., 2022. “**Urban bees face a flower deficit, says Swiss study**”. Link: <https://www.bloomberg.com/news/articles/2022-01-14/urban-bees-lack-pollen-says-new-study-of-14-swiss-cities>

Interview for Corriere del Ticino: Mantovan, J., 2021. “**Le città sono vive, lo sappiamo grazie alle api**” by Jona Mantovan. Link: <https://www.cdt.ch/news/le-citta-sono-vive-lo-sappiamo-grazie-alle-api-270970>

Interview for Horizon. The EU Research & Innovation Magazine: Ceurstemont, S., 2021. “**What urban nature really means for insect biodiversity**”. Link: <https://ec.europa.eu/research-and-innovation/en/horizon-magazine/what-urban-nature-really-means-insect-biodiversity>

Interview for Swiss Info: Misicka, S., 2021. “**What soil sounds like and why it matters**”. Link: <https://www.swissinfo.ch/eng/podcast--what-soil-sounds-like-and-why-it-matters/47291260>

## INSTITUTIONAL RESPONSIBILITIES

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09.2022-02.2023 Co-organizer WSL Biodiversity Center Journal Club

## SUPERVISION OF JUNIOR RESEARCHERS

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### *Supervision of PhD students*

02.2024-02.2026	<b>Niclas Hoegel, TUM, Germany</b> <i>Role:</i> Second supervisor <i>Project:</i> StreuKlim
03.2024 – 03.2028	<b>Alexandra Zink, TUM, Germany</b> <i>Role:</i> Mentor <i>Project:</i> CityBees

### *Supervision of internships*

10.2021 – 12.2021	<b>Simonetta Selva, WSL, Switzerland</b> <i>Project:</i> “Bumblebee diets”.
07.2021–10.2021	<b>Stefanie Müller, WSL, Switzerland</b> <i>Project:</i> “Urban trees”.
07.2019 – 01.2020	<b>Miriam Leimgruber, WSL, Switzerland</b> <i>Project:</i> “City4Bees”.
04.2019 – 08.2019	<b>Stefanie Müller, WSL, Switzerland</b> <i>Project:</i> “BioVEINS”.
10.2018 – 12.2018	<b>Lucía Villarroya Villalba, WSL, Switzerland</b> <i>Project:</i> “BioVEINS”.

### *Supervision of master students*

10.2022 – 04.2023	<b>Simonetta Selva, WSL and ETH Zurich, Switzerland</b> <i>Thesis:</i> <i>To Bee or Not to Bee Diverse: Exploring the Role of Floral Richness in Shaping Urban and Rural Bumblebees' Diet</i>
12.2020 – 12.2021	<b>Stefanie Müller, WSL and University of Zürich, Switzerland.</b> <i>Thesis:</i> “Feeding behavior of urban bees”.
04.2018 – 09.2018	<b>Lucía Villarroya Villalba, WSL, Switzerland and Université de Montpellier, France.</b> <i>Thesis:</i> “Multi-scale connectivity of urban green infrastructures for bats and nocturnal insects”.

***Supervision of bachelor students***

- 11.2019 – 02.2021 **Aurelia Kuster, Bachelor student. WSL & ETH Zurich, Switzerland.**  
*Thesis: "Using the synergy of the adaptation to climate change and the facilitation of biodiversity through urban green within the city of Zurich".*
- 01.2019 – 08.2019 **Petrissa Villiger, Bachelor student. WSL & ETH Zurich, Switzerland.**  
*Thesis: "Modelling invertebrate species distribution in Zurich".*

***Supervision of Civil Servants***

- 07.2019 – 01.2020 **Pascal Bischof. WSL, Switzerland.**  
 10.2017 – 01.2018 **Kevin Kilchhofer. WSL, Switzerland.**

**TEACHING ROLES**

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- 04.2025-09.2025 Co-lecturer at Advanced Concepts and Methods in Urban Ecosystems course at TUM  
 12.2024 Invited lecturer at Urban Agriculture course at TUM  
*Ca. 3 hour of lectures*  
*Master level*  
*Ca. 20 students*
- 04.2024-09.2024 Co-lecturer at Project Landscape Planning 3 ("Ecological Concepts") course at TUM  
*Ca. 4 hours of lectures and 6 hours group supervision*  
*Bachelor and Master level*  
*Ca. 30 students*
- 04.2024 Co-lecturer at Advanced Concepts and Methods in Urban Ecosystems course at TUM  
*Ca. 4 hour of lectures*  
*Master level*
- 11.2022 Teaching assistant course Landscape Biodiversity Modelling at ETHZ.  
*Ca. 8 hours of lecture material preparation*  
*Master level*
- 04.2022 Teaching assistant at R statistic course (Visualisations using R) at WSL.  
*Ca. 6 hours of practical supervision and course material preparation*  
*Master, PhD, Postdoc level*
- 06.2021 Teaching assistant at R statistic (Advanced data management in R) course at WSL.  
*Ca. 6 hours of practical supervision and course material preparation*  
*Master, PhD, Postdoc level*
10. 2020 Teaching assistant at R statistic course (Visualisations using R) at WSL.  
*Ca. 6 hours of practical supervision and course material preparation*  
*Master, PhD, Postdoc level*
- 09.2019 – 01.2020 Teaching assistant at Landscape Ecology course at ETHZ. Student project desing and supervision of student projects.  
*Ca. 15 group supervision*  
*Master level*
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 09.2018 – 01.2019 Teaching assistant at Landscape Ecology course at ETHZ. Student project design and supervision of student projects.  
*Ca .15 hours group supervision*  
*Master level*

**PRESENTATIONS*****Oral contributions to conferences***

- 2024** **Speaker presentation.** When honeybees come to town. PATHWAYS Europe 2024. Cordoba, Spain.
- 2024** **Speaker presentation.** Urban Biogeography to enhance city ecosystems for people and nature. 53<sup>rd</sup> Annual Meeting of the GfÖ. Freising, Germany.
- 2023** **Poster presentation:** Wild bee diversity patterns in Switzerland. 53<sup>rd</sup> annual meeting of the GfÖ. Leipzig, Germany.
- 2022** **Poster presentation:** Challenging the sustainability of urban beekeeping. **Urbio meeting 2022.** Leipzig, Germany.
- 2022** **Speaker presentation.** Low Resource Availability Drives Feeding Niche Partitioning Between Wildbees And Honeybees In A European City. **Urbio meeting 2022.** Leipzig, Germany.
- 2022** **Speaker presentation.** Responses of cavity-nesting bees and wasps and their natural enemies across European cities. International Conference on Ecological Sciences & Evolution, Metz, France.
- 2022** **Poster presentation:** Wild bee diversity patterns in Switzerland. International Conference on Ecological Sciences & Evolution, Metz, France.
- 2022** **Speaker presentation.** Spatial mismatch between wild bee diversity and protected areas. INTECOL 2022. Geneve, Switzerland.
- 2022** **Poster presentation:** Challenging the sustainability of urban beekeeping. INTECOL 2022. Geneve, Switzerland.
- 2022** **Speaker presentation.** How wild bees find a way in European cities. World Biodiversity Forum. Davos, Switzerland.
- 2020** **Speaker presentation.** Modelling Biodiversity in Cities: Opportunities for Ecology and Management. World Biodiversity Forum. Davos, Switzerland.
- 2019** **Speaker presentation.** Species distribution models in urban ecology. GfÖ Annual Meeting. Münster, Germany.
- 2019** **Poster presentation.** Preliminary results on the effect of urbanization on biodiversity in five European cities. 1st Meeting of the Iberian Ecological Society & XIV AEET Meeting: Ecology an integrative science in the Anthropocene. Barcelona, Spain.
- 2018** **Poster presentation.** Responses of bees and wasps to urbanization. Research day D-USYS ETHZ. Zurich, Switzerland.
- 2018** **Poster presentation.** Responses of bees and wasps to urbanization. Biology18. Neuchâtel, Switzerland.

### *Invited talks*

- 2023** **Invited Speaker at a Master Lecture.** How urban bees find a way. ETHZ, Zurich, Switzerland.
- 2022** **Invited Speaker at a department Seminar.** Looking at cities through novel lenses. TUM Munich, Munich, Germany.
- 2022** **Invited Speaker at a Research Symposium.** University of Lausanne, Lausanne, Switzerland.
- 2022** **Invited Speaker at a department Seminar.** Looking at cities through novel lenses. Universidad Nacional de Cordoba, Cordoba, Argentina.
- 2018** **Invited Speaker at Master Lecture.** The conservation of wildlife in an urbanizing world. Urban ecology: the green within the city. University of Lisbon, Lisbon, Portugal.
- 2017** **Invited speaker at a Research Symposium.** The conservation of pollinators in urban areas. Pollinators: will they survive the threads? Polytechnic University of Barcelona, Barcelona, Spain.

### *Organisation of conferences*

- 2024** Co-convener of the session: *Urban biodiversity: how to assess the social-ecological value of urban environments* at the 53<sup>rd</sup> Annual Meeting of the GfÖ, Freising, Germany.
- 2024** Co-convener of the session: *Evaluating protected areas for biodiversity conservation currently and in the future* at the 53<sup>rd</sup> Annual Meeting of the GfÖ, Freising, Germany.
- 2023** Co-convener of the session: *Urban Ecology* at the 52<sup>nd</sup> Annual Meeting of the GfÖ, Leipzig, Germany.
- 2023** Co-convener of the session: *New perspectives on plant-pollinator-people interactions in cities* at the Annual Meeting of the British Ecological Society, Belfast, UK.
- 2022** Co-convener of the session: *Ecology for future cities* at the International Conference on Ecological Sciences & Evolution, Metz, France.

## EDITORIAL ROLES

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Co-Guess Editor: *Basic and Applied Ecology*  
 VSI Ecology for Future Cities  
 With Monika Egerer

## REVIEWER DUTIES

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*Basic and Applied Ecology* (1)  
*Diversity & Distributions* (2)  
*Ecological Applications* (6)  
*Ecological Entomology* (1)  
*Ecological Solutions & Evidence* (1)  
*Ecology and Evolution* (1)  
*Floral* (1)  
*Frontiers in Ecology & Evolution* (1)  
*Frontiers in Sustainable Cities* (1)  
*Insect conservation & diversity* (2)  
*International Journal of Digital earth* (1)  
*Journal of Applied Ecology* (2)  
*Journal of Insect Conservation* (2)  
*Landscape & Urban planning* (2)  
*PloS ONE* (2)  
*Science of the Total Environment* (2)  
*Scientific Data* (2)  
*Urban ecosystems* (6)

## MEMBERSHIPS

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### Active

Since 2018 Member of the Spanish Ecological Society (AEET)  
 Since 2018 Member of the Iberian Ecological Society (SIBECOL)  
 Since 2024 Member of the Ecological Society of Germany, Austria and Switzerland (GfÖ)

### Past

2022-2024 British Ecological Society (BES)

## PERSONAL SKILLS

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*Languages:* Catalan (native)  
 Spanish (native)  
 English (fluent)  
 German, French and Italian (basic)

*Programming languages:* R (advanced)



	Javascript (basic)
<i>Image and video:</i>	Adobe Illustrator
<i>GIS</i>	QGIS Arc-GIS Google Earth Engine
<i>Fieldwork sampling</i>	Plant and vegetation releves, floral resource measurements, insect sampling, soil
<i>Labwork:</i>	Species identifications (plants and several insect orders), pollen extractions, functional trait measurements
Driving licence	