

Léo Delalandre

PhD

Curriculum Vitae

Novembre 2024

Location : CEFE (Centre d'Ecologie Fonctionnelle et Evolutive), Montpellier

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Career summary

- 2020-2024 **Ph.D. in Functional Ecology**, *Centre for Evolutionary and Functional Ecology (CEFE), Montpellier, France*, supervised by [Cyrille Violle](#) and [Eric Garnier](#). "Trait-environment relationships in plants: from organism life cycle to data life cycle"
- 2020 **Research intern**, *Centre for Evolutionary and Functional Ecology (CEFE), Montpellier, France*, supervised by [Cyrille Violle](#). Modelling the effects of original tree species on forest productivity
- 2017 **Research intern**, *Centre for Investigations on Desertification (CIDE), Valencia, Spain*, supervised by [Alicia Montenisos-Navarro](#) and [Miguel Verdú](#). Inferring facilitation between plants from co-occurrence patterns.
- 2016 **Research intern**, *Institute of Ecology and Environmental Sciences (IEES), Paris, France*, supervised by [Esila Thébaud](#) and [Colin Fontaine](#). Modelling the effects of phenology on plant-pollinators interactions.

Education

2020-2024	Ph.D. in Functional Ecology <i>Montpellier, France</i>	École Doctorale 584 GAIA, Univ. Montpellier
2019-2020	Master 2: Biodiversity, Ecology, Evolution <i>Paris, France</i>	Université Paris Sud, Muséum National d'Histoire Naturelle
2018-2019	Master 2: Teaching Biology and Geology <i>Lyon, France</i>	ENS (École Normale Supérieure) of Lyon
2016-2017	Master 1: Biosciences <i>Lyon, France</i>	ENS (École Normale Supérieure) of Lyon Univ. Claude Bernard Lyon 1
2015-2016	License: Biosciences <i>Lyon, France</i>	ENS (École Normale Supérieure) of Lyon Univ. Claude Bernard Lyon 1
2013-2015	Preparatory school: Biology, Chemistry, Physics, Earth Sciences <i>Rouen, France</i>	Lycée Pierre Corneille

Peer-reviewed publications

Delalandre, L., Violle, C., Coq, S., & Garnier, E. (2023). Trait–environment relationships depend on species life history. *Journal of Vegetation Science*, 34(6), e13211. <https://doi.org/10.1111/jvs.13211>

Gaüzère, P., Blonder, B., Denelle, P., Fournier, B., Grenié, M., **Delalandre, L.**, Münkemüller, T., Munoz, F., Violle, C., & Thuiller, W. (2023). The functional trait distinctiveness of plant species is scale dependent. *Ecography*, n/a(n/a), e06504. <https://doi.org/10.1111/ecog.06504>

- Munoz, F., Klausmeier, C. A., Gaüzère, P., Kandlikar, G., Litchman, E., Mouquet, N., Ostling, A., Thuiller, W., Algar, A. C., Auber, A., Cadotte, M. W., Delalandre, L., Denelle, P., Enquist, B. J., Fortunel, C., Grenié, M., Loiseau, N., Mahaut, L., Maire, A., ... Kraft, N. J. B. (2023). The ecological causes of functional distinctiveness in communities. *Ecology Letters*, n/a(n/a). <https://doi.org/10.1111/ele.14265>
- Verdú, M., Garrido, J. L., Alcántara, J. M., Montesinos-Navarro, A., Aguilar, S., Aizen, M. A., Al-Namazi, A. A., Alifriqui, M., Allen, D., Anderson-Teixeira, K. J., Armas, C., Bastida, J. M., Bellido, T., Bonanomi, G., Paterno, G. B., Briceño, H., de Oliveira, R. A. C., Campoy, J. G., Chaieb, G., ... Zamora, R. (2023). RecruitNet: A global database of plant recruitment networks. *Ecology*, n/a(n/a), e3923. <https://doi.org/10.1002/ecy.3923>
- Delalandre, L.**, Gaüzère, P., Thuiller, W., Cadotte, M., Mouquet, N., Mouillot, D., Munoz, F., Denelle, P., Loiseau, N., Morin, X., & Violle, C. (2022). Functionally distinct tree species support long-term productivity in extreme environments. *Proceedings of the Royal Society B: Biological Sciences*, 289(1967), 20211694. <https://doi.org/10.1098/rspb.2021.1694>
- Delalandre, L.**, & Montesinos-Navarro, A. (2018). Can co-occurrence networks predict plant-plant interactions in a semi-arid gypsum community? *Perspectives in Plant Ecology, Evolution and Systematics*, 31, 36–43. <https://doi.org/10.1016/j.ppees.2018.01.001>

Awards, honours and grants

- 2024: Open Science prize for Ph.D., **2500€** funded by the French ministry of Research
- 2024: Nomination by the editorial committee of the Journal of Vegetation Science, in the context of the award « More reproducibility in vegetation research » (see DOI: 10.1111/jvs.13224)
- 2020-2023: Specific Doctoral Scholarship for Students of the ENS de Lyon

Teaching experience

I taught ~130 heures in biology, ecology, evolution and statistics, for license to master students. I also obtained the « agrégation » french concours (for teaching biology and geology) in 2019.

Course	Language	Year	Academic level	Duration
Organism life cycles (UM)	French	2020	L1	18h
From genotype to phenotype (UM)	French	2020	L2	26h
Evolutionary ecology (UM)	French	2020 et 2021	L3	46h
Statistics (linear models) (UM)	French	2021	M1	12h
Functional ecology (UM)	French	2022	L2	14h
Functional diversity (UM)	French	2021 et 2022	M2	12h

UM: University of Montpellier.

Skills and qualifications

Languages: French (native speaker); English (C2 at Cambridge Advanced Exam; scientific English); Spanish (B2)

Programming: Proficient in R, GitHub, Zotero, Microsoft/Libre office programs, Markdown. Occasional use of LaTeX, Python.

Statistics and modelling: Null models and permutation models; Generalized Linear Mixed Models; Differential equations for population dynamics (Lotka-Volterra); Multivariate analyses

Designing fieldwork and **experiments**, **mentoring** interns on fieldwork and experiments, **Teaching** (holder of French “Agrégation”, teaching diploma), **Organisation and animation of seminars**, Open science principles for codes and data, building of databases, working with international research teams

European driving license

Mentoring

2022: Julie Tschambser, M1, *University of Montpellier* (four months)

2022: Lila Saugier, L3, *Ecole Normale Supérieure* (three months)

2022: Galadriel Fournier, L2, *University of Montpellier* (two months)

Service

2020-2023: Organization and animation of weekly scientific seminars of the Comparative Ecology team, *CEFE, Montpellier*.

Peer review

Functional ecology (3)

Conferences

December 2021: Talk at the **British Ecological Society** symposium, on functional distinctiveness and forest productivity

March 2023: Invited talk at **ECOFOG** (French Guyana), on functional distinctiveness, its causes, properties, and effects on ecosystem productivity

April 2023: Talk at **ECOVEG** (French seminar on plant ecology), on empirical work on how plant life-history can affect trait-environment relationships

June 2023: Seminar of the **CEFE Functional Ecology department**, on trait-environment relationships within species, between species, and between groups of species

Workshops

May and October 2024: Interdisciplinary [workshops on Science and Society](#) (in French), *ENS, Lyon*

2023: Workshop on building a functional trait database and implementing open principles for data sharing (in French), *CEFE, Montpellier*

January 2020, October 2021, March 2022: international workshops on [Functional Rarity in Ecology and Evolution](#), *CESAB, Montpellier*

Referees

Cyrille Violle, CNRS Researcher
PhD supervisor
CEFE, University of Montpellier, France
Email: cyrille.violle@cefe.cnrs.fr

Eric Garnier, CNRS Researcher
PhD supervisor
CEFE, University of Montpellier, France
Email: eric.garnier@cefe.cnrs.fr

Alicia Montesinos-Navarro:
CIDE, Valencia, Spain
Master 2 internship supervisor
Email: ali.montesinos@gmail.com