



Emilie Fleurot

PhD in ecology of communities

About me

French

Driver license

→ [Researchgate profil](#)

→ [Website](#)

Contact

E-mail : emilieangelefleurot@gmail.com

Skills



R language



Statistics
(lmer, glmer ...)



Field work
Data sampling



Modeling
(C++)



French – **Native**
English - **TOEIC : 985/990**
Spanish - **C2**

Research activity

2023 – current

Postdoctoral research

Department DISAFA, University of Turin, Italy

Education

2019 – 2023

Lyon, France

PhD in ecology of communities, forest ecology, modeling

Title : Towards a detailed understanding of the determinism of masting: a multi-scale approach to the study of fruiting of oaks *Quercus petraea* and *Q. robur*.

Supervisors : Samuel Venner and Marie-Claude Bel-Venner.

2017 – 2019

Montpellier,
France

Master degree in Biology, Evolution and Ecology

Internship (6 months) on the coevolution of germination phenology and dispersal rate in a heteromorphic species.

Supervisors : Pierre-Olivier Cheptou and Jean-Michel Guillon.

Internship (3 months) on the interplay between demography and auto-incompatibility system in *Brassica insularis*.

Supervisor : Sandrine Maurice.

2014 – 2017

Dijon, France

Bachelor degree in Life science, Organisms biology (with honors)

Voluntary internship (1 month) on the effect of the double infection nematode-plasmodium in mice.

Supervisor : Gabriele Sorci.

Voluntary internship (1 month) on the immune priming and the immune transfer to offspring in *Tenebrio molitor*.

Supervisor : Yannick Moret.

Teaching activities

2022 Lyon, France	Bachelor 2nd year – Bioinformatic and Biostatistics Practicals (30h), Headed professors : Marie-Claude Venner and Arnaud Mary.
2020 Lyon, France	Bachelor 2nd year – Bioinformatic and Biostatistics Practicals (12h), Headed professors : Marie-Claude Venner and Arnaud Mary.

Internship supervising activities (at 50%)

2022 Lyon, France	Master degree 1st year (3 months) – Oak reproduction and control of fruit-eating insects : a modeling approach Emma Acacia (M1 BEE), University Claude Bernard Lyon 1.
2021 Lyon, France	Master degree 2nd year (6 months) – Cyclic vs stochastic dynamics of reproduction in perennial species : the key role of flowering phenology Léa Keurinck (M2 BEE), University Claude Bernard Lyon 1.
2020 Lyon, France	Master degree 1st year (3 months) – Floral phenology, a key driver of fruiting dynamics ? A between species comparison Léa Keurinck (M1 BEE), University Claude Bernard Lyon 1.

Selected conference presentations

Talk Oct. 2024	Reconciling Pollen Limitation Theories: Insights from Temperate Oak Masting. International Congress in Ecology and Evolution SFE ² , Lyon, France
Talk June 2023	Oak's flowering phenology responses to climate change and their consequences on reproduction dynamics. Masting Conference, Poznan, Poland
Talk June 2022	Climate change, shifting flowering phenology and their consequences on the reproduction of oak trees. Phenology at the crossroads 2022, Avignon, France
Talk May 2022	Timing of flowering : a critical issue to forecast forest regeneration in the context of climate change. Arqus Research Focus Forum on Climate Change and Biodiversity, Lyon, France
Talk March 2022	Shifting flowering phenology with climate change : a key issue for the future of oak forest ecosystems ? Ecology & Behaviour, Strasbourg, France
Talk June 2021	Timing of flowering : the key toward frequent reproductive failure and disruptive fruiting dynamics, temperate oak species as a case study. Mathematical And Computational Evolutionary Biology, Porquerolles, France
Talk May 2021	Oak masting : more than a simple fruits story ? Décryp'thèse, Lyon, France (Public award for best talk)

Invited presentations

Talk Oct. 2024	Reconciling Pollen Limitation Theories: Insights from Temperate Oak Masting. Boku University, Vienna, Austria
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Talk
Oct. 2024

Reconciling Pollen Limitation Theories: Insights from Temperate Oak Masting. Mammal Research Institute, Białowieża, Poland

Scientific publications

- 2024** **Reconciling Pollen Limitation Theories: Insights from Temperate Oak Masting.** **E. Fleurot***, L. Keurinck*, V. Boulanger, F. Debias, N. Delpierre, S. Delzon, J. Lobry, C. Mermet-Bouvier, M. Bel-Venner, S. Venner. Ecology Letters, 27:e70009. <https://doi.org/10.1111/ele.70009>
- 2024** **Evolutionary ecology of masting: mechanisms, models, and climate change.** M. Bogdziewicz, D. Kelly, D. Ascoli, T. Caignard, F. Chianucci, E. E. Crone, **E. Fleurot**, J. J. Foest, G. Gratzer, T. Hagiwara, Q. Han, V. Journé, L. Keurinck, K. Kondrat, R. McClory, J. M. La Montagne, I. A. Mundo, A. Nussbaumer, I. Oberklammer, M. Ohno, I. S. Pearse, M. B. Pesendorfer, G. Resente, A. Satake, M. Shibata, R. S. Snell, J. Szymkowiak, L. Touzot, R. Zwolak, M. Zywiec, A. J. Hacket-Pain. Trends in Ecology & Evolution. <https://doi.org/10.1016/j.tree.2024.05.006>
- 2023** **Oak masting drivers vary between populations depending on their climatic environments.** **E. Fleurot**, J. Lobry, V. Boulanger, F. Debias, C. Mermet-Bouvier, T. Caignard, S. Delzon, M. Bel-Venner, S. Venner. Current Biology. <https://doi.org/10.1016/j.cub.2023.01.034>
- 2022** **The morphological allometry of four closely related and coexisting insect species reveals adaptation to the mean and variability of the resource.** **E. Fleurot**, S. Venner, P-F. Péliisson, F. Débias, M-C. Bel-Venner. Oecologia. <https://doi.org/10.1007/s00442-022-05249-x>

Science popularization

Talk
March 2025 **Suivi de la dynamique de fructification des arbres Résultats sur le chêne sessile et nouveaux projets.** Réunion nationale ONF RENECOFOR, Malbuisson, France

Talk
Sept. 2023 **La reproduction des chênes sessiles : résultats du programme FOREPRO.** Kfé RDI ONF, Online meeting, France

Media

Jul. 2024 **Briançonnais: la science en renfort des pins sylvestres, en danger à cause de la sécheresse.** BFM DICI [\[link\]](#)

Jul. 2024 **SylvAForRes : rendre les forêts de montagne résilientes face aux changements climatiques.** Alpes & Midi [\[link\]](#)

Service

Peer-reviewer 3 journal; 10 manuscripts ([WOS](#))