Emilie Fleurot

PhD candidate in ecology of communities

About me

French
Driver license
→ Researchgate profil
→ Website

Contact

Tel : + 33 7 86 41 52 29
E-mail : emilieangelefleurot@gmail.com

Skills

R language

Statistics
(lmer, glmer ...)

Field work
Data sampling

Modeling
(C++)

French – **Native**
English - **C1**
Spanish - **C2**

Scientific publications

2023 **Contrasted global warming determine the shift of pollen phenology and concentration in temperate oaks.** **E. Fleurot**, L. Keurinck, J. Lobry, B. Boussau, M. Bel-Venner, S. Venner. ***In prep.***

2023 **Aerial pollen concentration as the best predictor of fruiting rates in oaks.** **E. Fleurot**, M. Bel-Venner, S. Venner. ***In prep.***

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. Pélisson, F. Débias, M-C. Bel-Venner. Oecologia. https://doi.org/10.1007/s00442-022-05249-x.

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 temperate oak species.
Supervisors : Samuel Venner and Marie-Claude Bel-Venner.

2017 – 2019
Montpellier, France

Master degree in Biology, Evolution and Ecology
Internship (6 months) on Germination phenology and dispersion rate coevoluton in an 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.

Conferences

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)**