

# Mélanie Thierry

## PhD in Community Ecology

### Professional experiences

#### **2024 - present** Post-doctoral position at CNRS CRBE, France (24 months)

Effect of management practices on vegetation biodiversity under electric lines  
(Supervisors: Dr Christophe Andalo Jacob and Dr Gabrielle Martin)

- analyses of taxonomic, functional and phylogenetic plant community composition and diversity
- validation of a biodiversity potential index
- landscape characterization (GIS)

#### **2022 - 2024** Post-doctoral position at CNRS SETE, France (24 months)

Local phenotypic and dispersal plasticity

(Supervisors: Dr Staffan Jacob and Dr Delphine Legrand)

- experiments in microcosms (with flow cytometry and microscopy)
- rearing of *Tetrahymena* system in laboratory
- internship supervision, organization of seminars
- field work in mountains

#### **2021 - 2022** Post-doctoral position at Biology Center CAS, Czech Republic (6 months)

- experiments in microcosms and rearing of *Drosophila*-parasitoid system in laboratory
- training of new colleagues

#### **2020 - 2022** Data manager for the LifeWebs project

- collecting and harmonizing existing datasets on host-parasitoid interaction networks

#### **2017 - 2021** PhD candidate at the University of South Bohemia and Biology Centre CAS, Czech Republic

Mechanisms structuring host-parasitoid communities in a global warming perspective

(Supervisors: Dr Jan Hřčák, Biology Centre CAS and Prof. Owen Lewis, University of Oxford)

- experiments in microcosms and rearing of *Drosophila*-parasitoid system in laboratory
- molecular methods (PCR)
- internship supervision

#### **2020** Erasmus traineeship at the German Centre for Integrative Biodiversity Research, Germany (2 months)

Stability-complexity domain in host-parasitoid networks

(Collaborators: Prof. Ulrich Brose, Dr Benoit Gauzens, and Dr Benjamin Rosenbaum)

- modeling host-parasitoid network dynamics

#### **2017 - 2018** Field work in Australia (7 months)

(Collaborator: Dr Megan Higgie, James Cook University, Australia)

- collection of live insects in Australian rainforests
- establishment and rearing of *Drosophila*-parasitoid system in laboratory
- experiment *in situ*

#### **2016 - 2017** Civic volunteer service at Estuaire, France (6 months)

- Odonate survey as indicators of wetlands quality
- coordination of Citizen science projects (l'Observatoire des vers luisants & l'Observatoire des bourdons)

#### **2016** Volunteer project at Cloudbridge Natural Reserve, Costa Rica (4 months)

- diurnal and nocturnal bird surveys to assess the effect of reforestation on bird communities
- mammal survey using camera trapping
- mapping of the reserve (GIS)

#### **2015** MSc thesis at the National Research Institute for Agriculture, Food and Environment (INRAE), France

Effect of local and landscape factors on butterfly communities (DIVA 3 Levana project)

(Supervisors: Dr Marie-Lise Benot, Bordeaux University and Dr Inge Van Halder, INRAE)

- plant and butterfly surveys
- big datasets and GIS analyses, scientific paper writing

#### **2014** Volunteer mission at Archelon, Greece (2 months)

- monitoring of sea turtle population
- public awareness at beach entrances and in hotels



CNRS CRBE  
31400 Toulouse, France

@ melanie.thierry34@gmail.com  
melaniethierry.github.io

Date of birth: 11/06/1991  
in Montpellier, France

Driving License (2009)

### Languages

French: native

English: TOEFL C1

Spanish: B2 (Volunteering 8  
months in Latin America)

### Education

**PhD in Ecology (2021)**  
*University of South Bohemia, CZ*

**MSc in Ecology and biodiversity  
management (2015)**  
*Aix-Marseille University, France*

**BSc in Ecology and biology of  
organisms (2013)**  
*Montpellier 2 University, France*  
*Bishop's University, Canada*  
(CREPUQ exchange)

### Scientific skills

Laboratory and field experiments  
Animal monitoring, capture, rearing  
Statistical analysis (R)  
GIS (ArcGIS, QGIS)

### Hobbies



**2014 MSc project at Nature Midi-Pyrénées, France**

(Supervisor: Pierre-Olivier Cochard)

- creation of an identification key for the ladybugs

**2013 Volunteer internship at the French Biodiversity Agency in the Haut-Languedoc Regional Nature Park, France (1 month)**

- monitoring of bighorn sheep population via mark-recapture and remote sensing
- European nightjar survey for Natura 2000

**2012 Volunteer internship at the French National Center for Scientific Research (CNRS SETE), France (2 months) (Supervisor: Dr Virginie Stevens, Dr Jean Clobert and Dr Sylvain Moulherat)**

- monitoring of viviparous lizard populations and their dispersal via mark-recapture, rearing in laboratory

## Grants

**2021** IBERA from the Czech Academy of Sciences (~1,620 EUR)

**2020** Erasmus traineeship fellowship (1,724 EUR)

**2019** Principal investigator on GAJU grant n°04-134/2019/P (~5,085 EUR, 1-year-project)

## Scientific production

**Thierry M.**, Dupont L., Legrand D. & Jacob S. (2025) Phenotypic and dispersal plasticity are not alternative mechanisms facing thermal changes. *Proceedings B*. DOI: 10.1098/rspb.2024.2796

**Thierry M.**, Clobert J., Bestion E. Cote J., Legrand D. & Jacob S. (2024) The interplay between abiotic and biotic factors in dispersal decisions in metacommunities. *Philosophical Transactions B*. DOI: 10.1098/rstb.2023.0137

Jacob S., Dupont L., Haegeman B., **Thierry M.**, Campana JLM., Legrand D. & Jacob S. (2024) Phenotypic plasticity and the effects of thermal fluctuations on specialists and generalists. *Proceedings B*. DOI: 10.1098/rspb.2024.0256

Dupont L., **Thierry M.**, Zinger L., Legrand D. & Jacob S. (2023) Beyond reaction norms: the temporal dynamics of phenotypic plasticity. *Trends in Ecology & Evolution*. DOI: 10.1016/j.tree.2023.08.014

**Thierry M.**, Pardikes N., Rosenbaum B., Ximénez-Embun M., & Hrček J. (2022) The presence of multiple parasitoids decreases host survival under warming, but parasitoid performance also decreases. *Proceedings B*. DOI: 10.1098/rspb.2022.0121

**Thierry M.**, Pardikes N., Ximénez-Embun M., Proudhon G., & Hrček J. (2022) Multiple parasitoid species enhance top-down control, but parasitoid performance is context-dependent. *Journal of Animal Ecology*. DOI: 10.1111/1365-2656.13782

Pardikes N.A., Revilla T., Lue C-H., **Thierry M.**, Souto D. & Hrček J. (2022) Effects of phenological mismatch under warming are modified by community context. *Global Change Biology*. DOI: 10.1111/gcb.16195

Mugnai M., Trindade D.P.F., **Thierry M.**, Kaushik K., Hrček J. & Götzenberger L. (2022) Environment and geographic distance drive community assembly of Atlantic European grasslands: insights from integrating taxonomic, functional and phylogenetic diversity. *Journal of Biogeography*. DOI: 10.1111/jbi.14331

**Thierry M.**, Pardikes N., Lue C-H., Lewis O. & Hrček J. (2021) Experimental warming influences species abundances in a *Drosophila* host community through direct effects on species performance rather than altered competition and parasitism. *Plos One*. DOI: 10.1371/journal.pone.0245029.

Lue C-H., Buffington M., ..., **Thierry M.**, ... & Hrček J. (2021) DROP: Molecular voucher database for identification of *Drosophila* parasitoids. *Molecular Ecology Resources*. DOI: 10.1111/1755-0998.13435

**Thierry M.**, Hrček J. & Lewis O. (2019) Mechanisms structuring host-parasitoid networks in a global warming context: a review. *Ecological Entomology*. DOI: 10.1111/een.12750

Van Halder I., **Thierry M.**, ... & Benot M. L. (2017) Trait-driven responses of grassland butterflies to habitat quality and matrix composition in mosaic agricultural landscapes. *Insect Conservation and Diversity*. DOI: 10.1111/icad.12200

## Other publication

Mercier O., ... **Thierry M.**, ... Leriche, A. & Million A. (2017) Étude pilote pour la mise en place d'un protocole de suivi du Phyllodactyle d'Europe (*Euleptes europaea*) sur l'île de Port-Cros (Var, France). Trav. Scient. P. N. Port-Cros, 31: 189-211

**Thierry M.** (2016) Les coccinelles de Midi-Pyrénées : approche des Chilocorinae, Coccinellinae et Epilachninae

## Scientific communication

**2025** International Conference of Entomophagous Insects (Tours, France) – Effects of global warming on host-parasitoid communities (plenary, invited)

**2024** ECONET (Ghent, Belgique) - The interplay between abiotic and biotic factors on dispersal decisions (talk)

**2023** GDR Plasticity (Montpellier, France) - Local or spatial: phenotypic and dispersal plasticity facing thermal changes (talk)

**2022** Tropical ecology online (online) - Effect of experimental warming on parasitoid diet breadth (invited talk)

**2022** 6th International Symposium on Biological Control of Arthropods (online) - Impact of warming on multiple parasitoid effects: consequences for top-down control (invited talk)

**2021** 5th Symposium on Ecological Networks (Palma, Spain) - Multiple parasitoid species enhance top-down control, but parasitoid performance is context-dependent (talk)

**2019** 4th Symposium on Ecological Networks (Paris, France) - Parasitism decreases with increased temperature and structures host-parasitoid networks through host preference and competition between parasitoids (talk)