

Mélanie Thierry

PhD in Community Ecology



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

Driving License (2009)

SSI Advanced Scuba-diver

Languages

French: native

English: TOEFL C1

Spanish: B2 (Volunteering 8 months in Latin America)

Education

PhD in Ecology (2022)

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, CANOCO)

GIS (ArcGIS, QGIS)

Hobbies



Professional experiences

2022 - current Post-doctoral position at CNRS SETE, France

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

- 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

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.**, 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 of the Royal Society B*, 289 (1971), 20220121. DOI: 10.1098/rspb.2022.0121
- Thierry M.**, Pardikes N., Ximénez-Embun M., Proudhom G., & Hrček J. (2022) Multiple parasitoid species enhance top-down control, but parasitoid performance is context-dependent. *Journal of Animal Ecology*, 91(9), 1929-1939. 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*, 28(13), 4013-4026. 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*, 49(4), 699-711. 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*, 16 (2), e0245029. 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*, 21 (7), 2437-2454. 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*, 44 (5), 581-592. 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*, 10(1), 64-77. 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 Phylodactyle 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

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