

**Postdoc researcher**

University of Bonn  
Institute of Crop Science and Resource Conservation (INRES)  
Agroecology and Organic Farming group  
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## Academic education

### *Doctoral studies*

- 2018 **PhD Agricultural Entomology and Pest Control**  
Graduate School of Chinese Academy of Agricultural Sciences, Institute of Plant Protection, State Key Laboratory for Biology of Plant Diseases and Insect Pests, Beijing, China
- 2017 **PhD Agricultural Sciences and Biological Engineering**  
University of Liege, Gembloux Agro-Bio Tech, CARE AgricultureIsLife - Functional and Evolutionary Entomology, Gembloux, Belgium
- Dissertation title:** “Spatial diversification of agroecosystems towards biological control of insect pests: a focus on intercropping and wildflower strips”

### *Engineer and Master studies*

- 2013 **MSc. Life and Environmental Science and Technology**  
Speciality: From Agronomy to Agroecology. AgroParisTech, Paris, France
- 2013 **Engineer Degree**  
Speciality: Agricultural Engineer. Agrocampus-Ouest, Rennes, France
- Dissertation title:** “Effects of nitrogen fertilisation and introduction of the parasitoid *Aphidius matricariae* on the development of the aphid *Nasonovia ribisnigri* on lettuce”

## Scientific interests

- ▷ Agroecological crop protection / Agroecological pest management
- ▷ Agroecosystem diversification incl. mixed cropping, management of semi-natural habitats
- ▷ Insect-flower interactions, especially natural enemies of pests
- ▷ Social, economic and political dimensions underlying agroecological pest management

## Working experiences

- 10.2017 - 10.2020 Postdoc at Kyoto University, Graduate School of Agriculture, Lab. Forest Ecology, Kyoto, Japan
- 01.2013 - 06.2013 Internship at INRA (French National Institute for Agricultural Research), PSH – Plants and Cropping Systems in Horticulture, Avignon, France
- 03.2012 - 08.2012 Internship at TECHNISEM/TROPICASEM (tropical vegetable seed company), Longué Jumelles, France / Dakar, Senegal
- 10.2011 - 02.2012 Internship at CIRAD (French Agricultural Research Centre for International Development), AGAP – Genetic Improvement and Adaptation of Mediterranean and Tropical Plants, Montpellier, France, *with* EMBRAPA (Brazilian Agricultural Research Corporation), Maize & Sorghum Centre, Sete-Lagoas, Brazil

## Research fellowships

01.2021 - Today	Marie Skłodowska-Curie Individual Fellowship (European Commission)
11.2018 - 10.2020	Postdoctoral Fellowship for Research in Japan (Japan Society for the Promotion of Science)
10.2017 - 09.2018	'Belgian International Post-Doc' Marie-Curie COFUND (European Commission, University of Liege)
10.2017 - 10.2018	WBI.World Excellence Scholarship (Wallonie-Bruxelles International)
07.2013 - 06.2017	AgricultureIsLife.be Doctoral Fellowship (University of Liege)

## Editorial activities

Since 04.2021	Associate Editor of the journal <i>Arthropod-Plant Interactions</i> (Springer-Nature)
Since 01.2020	Topic Editor of the journal <i>Insects</i> (MPDI)

## Selected publications (April 2021)

**Hatt S.**, Osawa N. (2021). High variability in pre-oviposition time independent of diet available at eclosion: a key reproductive trait in the ladybird beetle *Harmonia axyridis* (Coleoptera: Coccinellidae) in its native range. *Insects*, 12, 382.

**Hatt S.**, Francis F., Xu Q., Wang S., Osawa N. (2020). Perennial flowering strips for conservation biological control of insect pests: from picking and mixing flowers to tailored functional diversity. *In: Gao Y., Hokkanen H., Menzler-Hokkanen I. (Eds), Integrative Biological Control, Progress in Biological Control Series, Springer, 57-71.*

**Hatt S.**, Osawa N. (2019). Beyond “greening”: which paradigms shape sustainable pest management strategies in the European Union? *BioControl*, 64(4), 343–355.

**Hatt S.**, Osawa N. (2019). The role of *Perilla frutescens* flowers on fitness traits of the ladybird beetle *Harmonia axyridis*. *BioControl*, 64(4), 381–390.

**Hatt S.**, Xu Q., Francis F., Osawa N. (2019). Aromatic plants of East Asia to enhance natural enemies towards biological control of insect pests. A review. *Entomologia Generalis*, 38(4), 275–315.

**Hatt S.**, Uyttenbroeck R., Lopes T., Mouchon P., Osawa N., Piqueray J., Monty A., Francis F. (2019). Identification of flower functional traits affecting abundance of generalist predators in perennial multiple species wildflower strips. *Arthropod-Plant Interactions*, 13, 127–137.

**Hatt S.**, Uyttenbroeck R., Lopes T., Chen J., Piqueray J., Monty A., Francis F. (2018). Effect of flower traits and hosts on the abundance of parasitoids in perennial multiple species wildflower strips sown within oilseed rape (*Brassica napus*) crops. *Arthropod-Plant Interactions*, 12, 787–797.

**Hatt S.**, Boeraeve F., Artru S., Dufrêne M., Francis F. (2018). Spatial diversification of agroecosystems to enhance biological control and other regulating services: an agroecological perspective. *Science of the Total Environment*, 621, 600–611.

**Hatt S.**, Lopes T., Boeraeve F., Chen J., Francis F. (2017). Pest regulation and support of natural enemies in agriculture: experimental evidence of within field wildflower strips. *Ecological Engineering*, 98, 240–245.

Lopes T., **Hatt S.**, Xu Q., Chen J., Liu Y., Francis F. (2016). Wheat (*Triticum aestivum* L.)-based intercropping systems for biological pest control. *Pest Management Science*, 72, 2193–2202.