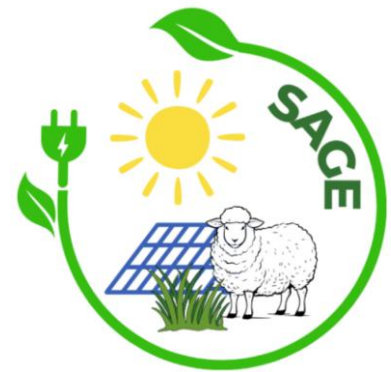




INSTITUT D'ÉCOLOGIE  
ET DES SCIENCES DE L'ENVIRONNEMENT  
DE PARIS

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## MSc Thesis: Assessing the Influence of Agrivoltaic Grazing Systems on Carbon and Nutrient Cycling Across Diverse Pedoclimatic Contexts in Europe: A Contribution to the SAGE Project

### Description

The objective of this thesis is to assess how Agrivoltaic grazing systems influence biogeochemical cycling of carbon and nutrients in different pedoclimatic contexts across Europe. The work will contribute to an international project (SAGE; Sustainable agrivoltaic grazing ecosystems) aiming for a holistic evaluation of these systems to provide management recommendations based on animal welfare, environmental impact and economic feasibility.

### Skills

- Background or strong interest in soil science
- Willingness to conduct field and laboratory work
- Basic experience with data analysis
- Good organizational skills, autonomy and scientific rigor
- Ability to work in an international research environment and communicate in English

### Tasks

- Collect soil samples at 4 different locations with Agrivoltaic grazing systems in Germany and France and measure plant parameters (above- and belowground biomass and physiological parameters)
- Analyse in the lab indicators of microbial biomass, activity community composition, soil organic matter characteristics and available nutrients
- Process and analyze data using descriptive statistics

### Location

Institute for Ecology and Environmental Sciences (iEES), Sorbonne University, Paris, France

### Supervisors

Dina Hamidi (University of Potsdam)  
Cornelia Rumpel (iEES-Paris);  
Abad Chabbi (INRAE);

### Duration

6 months, starting date flexible

### Internship allowance

~500 € /month

### Contact:

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