

# Jasmine CADENA

Seeking a **postdoctoral position** in plant-insect-microbe interactions, insect ecology and behaviour, host plant resistance and sustainable crop production.

Available to start a postdoctoral position from April 2027.

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Born in Barcelona  
on the 27th August 1985

Find the whole list of publications and talks at:  
**jasminecadena.com**

## Research interests

Plant-insect interactions  
Disease transmission ecology  
Host plant resistance  
Plant chemical ecology  
Beneficial microorganisms and biological control

I aim to understand how interactions among plants, insect vectors and microorganisms shape disease dynamics, and how this knowledge can contribute to more sustainable crop protection.

## Selected publications

**Cadena i Canals, J. et al.** High-resolution SNP genotyping provides insight into the introduction and dissemination of Grapevine flavescence dorée phytoplasma in Switzerland. *Frontiers in Plant Science*, 17, Article 1761458 (2026)  
<https://doi.org/10.3389/fpls.2026.1761458>  
*First author*

Bettenfeld, P., **Cadena i Canals, J. et al.** The microbiota of the grapevine holobiont: a key component of plant health *Journal of Advanced Research*, Sep; 40:1-15 (2022) <https://doi.org/10.1016/j.jare.2021.12.008>  
*\*Co-first author*

## Current position

### PhD in Life Sciences

#### **Defence scheduled on February 2027**

University of Geneva and Agroscope II 2022-2027

**Research topics:** epidemiology and population genetics of Flavescence dorée phytoplasma, grapevine cultivar susceptibility, plant-insect interactions and host plant resistance.

## Education

### **MSc in Life Sciences: Vineyard and Wine Sciences**

University of Burgundy II 2020-2022 II **First in year**

### **BSc in Life Sciences: Vineyard Sciences**

University of Burgundy II 2019-2020 II **First in year**

### **Advanced technician's certificate in Viticulture and Enology**

Lycée Agricole Montmorot II 2018-2019 II **First in year**

### **Five-year degree in Translation and Interpretation & Catalan proofreading**

Autonomous University of Barcelona II 2003-2007

## Languages

Catalan: native  
Spanish: bilingual  
French: fluent  
English: fluent  
Italian: working proficiency  
German: basic

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## Methods and approaches

Controlled laboratory and  
quarantine greenhouse  
experiments

Insect behavioural, fitness and  
EPG assays

Population genetics and SNP  
marker development

Field epidemiology and spatial  
analyses (GIS)

Molecular biology  
(DNA/RNA/dsRNA extraction,  
PCR, RT-PCR, qPCR)

Plant volatile sampling

Fungal bioassays

Statistical modelling and data  
analysis

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## Referees

Olivier SCHUMPP  
Virology and Bacteriology  
Group Leader at Agroscope  
(Switzerland)

Marika ROSSI  
Senior Scientist at CNR-  
IPSP (Italy)

## Research experience

### **Agroscope, Swiss Confederation's Centre of Excellence for Agricultural Research**

Master's thesis and research internship || 10 months (2022)  
[Mycoviruses in vineyard endophytes.](#)

Investigated interactions between fungal endophytes and mycoviruses through fungal bioassays, virus curing by hyphal tipping, horizontal transmission experiments and molecular analyses.

### **Technical Association of Viticulture in Burgundy (FR)**

Research internship || 1 month (2021)

[Soil-vine interactions.](#)

Investigated relationships between soil physicochemical properties and grapevine decline associated with the 161-49C rootstock. Performed statistical analyses to identify factors associated with vine decline.

### **INRAE, French National Research Institute for Agriculture, Food and Environment**

Bachelor's research internship || 4 months (2020)

[The grapevine microbiota.](#)

Conducted an extensive literature review on the grapevine holobiont, synthesising current knowledge on microbial communities associated with the rhizosphere, caulosphere, phyllosphere, anthosphere and carposphere.

Also gained initial laboratory experience through sample preparation for metagenomic analyses.

## Other professional experiences

### **Wine Tourism, Hospitality and Export Administrative**

*Organic wineries in France and Spain (2012-2018)*

Project coordination, event organisation, budget management, communication, staff supervision and international wine trade.

### **Language teacher**

*Catalan Autonomous Government and private language schools (2003-2022)*

Teaching Catalan, Spanish and English to children and adults, developing communication and knowledge-transfer skills across diverse audiences.