



## KEY-WORDS:

Peanut – Aflatoxins – Sustainability

## PROJECT TITLE

# Enhancement of the supply chain “Italian peanut”

## PROFILE

I am a second-year PhD student specialised in plant pathology.

## AFFILIATION

Department of Sustainable Crop Production (DI.PRO.VE.S)  
Università Cattolica del Sacro Cuore

## LANGUAGES



Native language



Level B2

## HOW TO CONTACT ME

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## REFERENCE CONTACT

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## Steps of the research

- In-depth literature research to improve knowledge about peanuts.
- Characterisation of fungal population on peanuts at harvests, focusing on *Aspergillus flavus* and the possible aflatoxin contamination.
- Development of a mechanistic model to predict aflatoxin contamination in peanuts starting from the model AFLA-maize
- Valorisation of waste products obtained during peanut processing.

## Research Contribution

Data collection and the development of a mechanistic model to predict aflatoxin contamination of peanuts will contribute to apply the sustainable food system approach to the Italian peanut supply chain.

## Collaborations

IBF Servizi S.p.A

## Why should you care?

Peanut is a developing crop in Italy, and thanks to the consumer eating habits could represent an important opportunity for the country. Compared to the world's largest producers, Italy has a much lower production, so the enhancement of Italian peanut must be focused on quality. The mitigation of aflatoxin contamination risk is the first step, considering the EU limits and the relevance of aflatoxin problem of imported peanuts.