



LEGUMINOSE Summer School

# Modelling Intercropping Systems

From Analysis to Decision Making



6 – 9 July 2026

BOKU University, Vienna,  
Austria

## About the Summer School

Intercropping offers a sustainable and resilient alternative to monoculture farming. Yet, designing site-specific intercrops that balance complementarity and competition remains a challenge. Scenario analysis using crop modelling can facilitate this process.

This summer school provides participants with theoretical foundations and hands-on experience to model intercropping systems using the process-based InterCrop model, developed within the EU-funded LEGUMINOSE project ([www.leguminose.eu](http://www.leguminose.eu)).

## Who Should Attend

Master's and PhD students, postdocs, and professionals interested in crop modelling and intercropping. Open to both beginners and those with previous modelling experience.

## Program Details

This summer school combines lectures and hands-on training with the InterCrop model. The following topics will be covered:

- Intercropping systems: benefits and challenges
- Complementarity, facilitation, and competition processes in intercrops
- Principles of process-based crop modelling (SSM-iCrop framework)
- The InterCrop model: design, structure, and implementation
- LEGUMINOSE – A web-based decision support system for intercropping

## Organisers and Lecturers

- Ahmad M. Manschadi (*Assoc. Prof. of Crop Physiology and Modelling, BOKU University, Vienna, Austria*)
- Tom Sizmur (*Prof. of Environmental Chemistry, University of Reading, UK*)
- Sabine Seidel (*Prof. of Organic Farming, BOKU University, Vienna, Austria*)
- Leonardo A. Monteiro (*Postdoc in Crop Modelling, BOKU University, Vienna, Austria*)

## Participant Requirements

- Good command of English
- Basic knowledge of agronomy and crop physiology
- Working proficiency in Microsoft Excel

## Registration Details

- Participation is limited to 30 participants
- Registration deadline: **14 June 2026**
- Fees: **€200 per person** to cover course materials, refreshments, lunches, and one social dinner. The fee **does NOT cover travel and accommodation costs**.

## Contact information

For more information, please contact Dr. Ahmad M. Manschadi ([manschadi@boku.ac.at](mailto:manschadi@boku.ac.at))

**Register here!**