

Session 2 speaker



# Lucas Van der Hauwaert



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Innovation in high-value products  
from agri-food residues

## OUTDOOR: Paving the path for profitable biorefineries

Designing processing pathways to handle agricultural waste is a complicated business. Luckily, software tools can significantly ease this process. To this end, we introduce OUTDOOR, a Python-based, user-friendly software package that enables users to analyze multiple potential production routes and identify optimal pathways according to desired objectives.



Lucas is a PhD Candidate in Chemical Engineering at University of Santiago de Compostela (2021-Present). Previously he was a visiting Researcher at University of Twente (2023) and holds an M.Sc. in Bioscience Engineering from Ghent University (2020). Lucas's innovative research on biorefinery design optimization has recently been published in the Journal of Cleaner Production and Computer Aided Chemical Engineering (2024).

## In this session, you will learn:

- Why identifying optimal designs at an early stage is so important.
- What Superstructure optimization is and how it relate to designing biorefineries.
- How the software OUTDOOR can help design economically viable refineries.



Contact

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