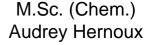
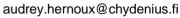
## CATALYTIC CONVERSION OF BIOMASS INTO TRANSPORTATION FUELS







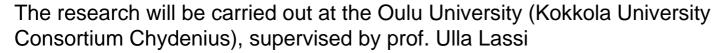


## AIM OF THE RESEARCH

Development of novel, chemical (catalytic) reaction pathways for the production of butanol and higher bioalcohols.

## MAIN FIELDS OF THE RESEARCH

- Evaluation of former and novel procedures for chemical production of butanol
  - Chemical degradation of biomass to obtain intermediate product(s)
  - Chemical steps to transform the intermediate product(s) to end product(s)
- •Development and optimization of catalytic reactions for the production of butanol and higher alcohols
  - Catalyst synthesis and characterization
  - Alcohol(s) synthesis over heterogeneous catalyzed reactions
- Sustainability analysis and evaluation of atom economy of the new processes





UNIVERSITY of O



A Joint Degree with prof. J-M Leveque, Universite de Savoie, France