



# Research Cluster Workshop

## User Adaptive Systems

July 8, 2022

1:30 – 3:30pm MST

[Click here to join the meeting](#)

Introduction (1:30 – 1:35pm)

Keynote talk (1:40 – 2:30pm)

**Augmented reality, personalized collaborative work and co-creation to support inclusive education**

Prof. Silvia Margarita Baldiris Navarro, International University of La Rioja, Spain

Student talk (2:35 – 3:05pm)

**OMEGA+: An educational game to improve meta-cognitive skills**

Erika Racette and Rob Schmidt, undergraduate students and research assistants, Athabasca University, Canada

Discussion Session – Students' corner (3:10 – 3:30pm)

**Is research right for me and how do I get involved?**

Prof. Sabine Graf, Athabasca University

**We look forward to your attendance!**

If you would like to join this cluster, please send an email to Prof. Sabine Graf at  
[sabineg@athabascau.ca](mailto:sabineg@athabascau.ca)

# Keynote Talk

## Augmented reality, personalized collaborative work and co-creation to support inclusive education

**Presenter: Prof. Silvia Margarita Baldiris Navarro, International University of La Rioja, Spain**

### Abstract

Educational systems face great social challenges, among them, to offer an education that met the students' variability. Challenges that involve rethinking teaching strategies to find new ways of teaching and learning, strategies that transcend the consideration of a standard student and could offer attention to each individual.

This speech introduces a strategy for the co-creation of augmented and inclusive educational scenarios (cooperAR), considering three conceptual principles, cooperative learning (CA), universal design for learning (UDL) and co-creation between students and teachers. In particular, a personalized cooperative learning groups creation based on the diversity of students is described.

In the talk, we are going to analyze the results of the evaluation of cooperAR considering three dimensions, inclusion, cooperation and quality. Results demonstrate that cooperAR favors the co-creation of inclusive educational scenarios among heterogeneous groups, guaranteeing cooperation as a catalyst of learning for all.

### Short Bio

Silvia Margarita Baldiris Navarro has degrees from the Universidad Industrial de Santander (UIS) in Colombia as a systems and industrial engineer. She subsequently completed a master's degree in computer science and industrial automation at the University of Girona, a university in which she also completed a doctorate in technologies. She is currently a Professor at the International University of La Rioja, Spain, and at the Comfenalco Technological University Foundation, Colombia. Her research has always been focused on the analysis of how information and communication technologies can facilitate the inclusion of all students in the educational system. She has coordinated and participated in international projects and initiatives in Europe, North America and also in Latin America. She actively participates in evaluation and editorial committees of high-impact scientific journals.