

## EDUCATION, CULTURE, COGNITION AND SOCIETY RESEARCH UNIT (ECCS)

# LOCAL AND GLOBAL PERSPECTIVES ON EDUCATION

### Research Question

“How can multilingualism and diversity be translated into advantages for individuals and society?”

The Education, Culture, Cognition and Society research unit (ECCS) brings together specialists who study teaching and learning processes in a multilingual and multicultural environment. Research on education in linguistically, culturally and socially diverse societies is at the heart of the unit's work. This focus on multilingualism and diversity is also a key concern of the University's research priority in Education, in which ECCS plays a leading role. ECCS consists of six interdisciplinary institutes:

### APPLIED EDUCATIONAL SCIENCES (AES)

We study central aspects of learning and teaching practices inside and outside school settings, focusing on the interactions between teachers and learners. Currently, projects are carried out in the fields of science education, language, mathematics, motor learning and information and communication technologies.

For more information, please visit: <http://aes.eccs.uni.lu>

### COGNITIVE SCIENCE AND ASSESSMENT (COSA)

We focus on understanding and measuring cognitive processes across the lifespan. Research is organised into four research groups: cognitive neuroscience, computer-based assessment, human-computer interaction and activity research. Specialists in psychology, educational science, psychometrics and human-computer interactions are contributing to research projects on numerical cognition, complex-problem solving and user experience.

For more information, please visit: <http://cosa.eccs.uni.lu>

### EDUCATION AND SOCIETY (InES)

We have a strong interest in the history, theory and sociology of education and study and analyse educational systems, processes and practices. Major research themes include the formation and transformation of educational systems, educational (in)equality and inclusion, the history of educational ideas and the policy and practice of teacher education.

For more information, please visit: <http://ines.eccs.uni.lu>

### LIFELONG LEARNING AND GUIDANCE (LLG)

We analyse and evaluate cognitive adaptation and learning strategies during major life transition periods, such as transition from school to work, within the professional domain, from work to retirement and from employment to unemployment and vice versa. Current research projects examine the evaluation and recognition of competencies, wellbeing and satisfaction at work, unemployment and finding a job and lifelong guidance.

For more information, please visit: <http://llg.eccs.uni.lu>

### RESEARCH ON MULTILINGUALISM (MLing)

We explore the complexities of multilingualism in educational, social, cultural, cognitive and professional domains and investigate questions related to language policies, multilingual practices and language acquisitions. Currently, researchers are working on projects about various social and educational aspects of multilingualism in Luxembourg, the Greater Region, Portugal, Brazil, Cape Verde and Madagascar.

For more information, please visit: <http://mling.eccs.uni.lu>

### TEACHER PROFESSIONALIZATION AND PSYCHOLOGY OF EDUCATION (TPPE)

We focus on teacher and student learning, teaching practice and the theory and practice of educational measurement, assessment, and evaluation. Key research activities include teachers' professional development, psychological and educational development, and psychological foundations of education. Our research aims at improving the competencies of teachers in educational contexts by incorporating research findings into professional teacher training.

For more information, please visit: <http://tpe.eccs.uni.lu>

## THE ECCS TEAM

The Education, Culture, Cognition and Society (ECCS) research unit is home to over 120 people – educationalists, neuroscientists, anthropologists, linguists, psychologists, historians, sociologists and IT specialists – including 70 PhD students.

## TEACHING ACTIVITIES

The ECCS research unit is closely linked to the Doctoral School in Educational Sciences and several bachelor's and master's programmes within the Faculty of Language and Literature, Humanities, Arts and Education

- Bachelor en Sciences de l'Education
- Master en Médiation
- Bachelor en Psychologie
- Master in Psychology
- Master in Learning and Communication
- in Multilingual and Multicultural Contexts
- Master in Social Sciences and Educational Sciences
- Master Management und Coaching im Bildungs- und Sozialwesen

## FACTS AND FIGURES

ECCS has 40 ongoing projects.

Our research is funded by the European Union, the Luxembourg National Research Fund (FNR), the Ministry of Higher Education and Research, the German Research Foundation (DFG), the Swiss National Science Foundation (SNF), L'Agence pour le développement de l'emploi (ADEM), the Qatar National Research Fund, the Thyssen Foundation, the Toepfer Foundation, Vanderbilt University, Paul Hamlyn Foundation and the University of Luxembourg.

## COLLABORATIONS

ECCS has strong national and international links. On a national level, we collaborate closely with the Ministry of Higher Education and Research, the Luxembourg Center for Educational Testing (LUCET) and many schools. From an international point of view, ECCS has strong connections with a variety of universities, research centers and organisations from all over the world.

## A GLIMPSE INTO OUR RESEARCH...

ECCS researchers are working on a range of topics, such as curriculum and policy studies, teacher education, cognitive development and learning processes, migration and multilingualism in school and Higher Education as well as learning processes across the lifespan. Particular emphasis is placed on researching education in socially, linguistically and culturally diverse societies.

ECCS has a strong focus on fundamental as well as applied research, and encourages connections between a variety of approaches, both qualitative and quantitative. Another central concern is not only to strengthen international and comparative research perspectives, but equally to accompany and support the Luxembourg education system – in close cooperation with teachers and schools.



### Research Questions

“What are appropriate tools for engaging with new challenges for teaching, learning, and assessment in technology-enriched environments?”

“How can our research contribute to creating fairness and inclusive practices in education?”

## CONTACT

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“How do we understand and measure cognitive processes across the lifespan?”