



# ONGOING COLLABORATIONS WITH AFRICAN COUNTRIES

At the Faculty of Educational Sciences



# PREVENTING MATHEMATICAL LEARNING DIFFICULTIES IN SOUTH AFRICAN (PRE)SCHOOLS

- **Team/coordination:** Pirjo Aunio
- **Partner university:** University of Johannesburg
- **Topic:** Preventing mathematical learning difficulties in South African (pre)schools
- We develop research-based assessment and intervention materials to be used in South African (pre)schools.
- Materials help educators to identify and support children who are at risk in their mathematical development. We aim for active collaboration with educators and researchers.



# LEARNING TO DESIGN – DESIGNING TO LEARN

- **Team/coordination:** Jari Lavonen
- **Partner university:** University of Johannesburg
- **Topic:** Learning to Design – Designing to Learn STEM teaching and learning and learning through the design of digital artefacts.
- The Learning to Design – Designing to Learn -project is a research collaboration between the universities of Helsinki and Johannesburg. It aims to solve several primary school challenges in low-income areas of South Africa through developing and researching
  - 1) science- technology, engineering and mathematics or STEM teaching and learning and
  - 2) learning through the design of digital artefacts, such as robots in the contexts of the South African early- and middle grades primary school curriculum.
- We are especially interested about pupils' learning of creative and critical thinking skills and computational thinking skills and, in general, the transversal competences pupils' will need in adult life, including working life in post 4IR era. In practice, the pupils will design digital artefacts in the context of project-based learning.



## MIDA FINNSOM HEALTH AND EDUCATION

- **Team/coordination:** Kaisa Hahl, Heidi Krzywacki and Arto Kallioniemi
- **Partner university:** Somali National University, Somalia and IOM
- **Topic:** Development in Teacher Education MIDA FINNSOM
- <https://finland.iom.int/fi/mida>
- Development cooperation to develop teacher education and support professional development.
- About 15 faculty experts have been involved project focuses on improving the capacity of institutions and professionals in the health and school sectors in southern and central Somalia to provide quality health care and education to the population.



# TOTEMK TRAINING TRAINERS FOR TEACHER EDUCATION AND MANAGEMENT IN KENYA

- **Team/coordination:** Seija Karppinen, University of Helsinki, Faculty of Educational Sciences
- **Partner universities:** University of Helsinki, University of Nairobi, Strathmore University, Pwani University, Laurea University of Applied Sciences
- **Topic:** Training trainers for teacher education and Management in Kenya (TOTEMK)
- <https://www2.helsinki.fi/en/projects/training-trainers-for-teacher-education-and-management-in-kenya/about-the-totemk-project>
- The target of the TOTEMK project is to strengthen the capacity of teacher education and institutional management in Kenya and get more teachers for the labour market who are competent to deliver Competency Based Curriculum (CBC) in the Kenyan schools.



# CURRICULUM CONVERTIBILITY FOR REMOTE LEARNING IN GHANAIAN HOME ECONOMICS EDUCATION

- **Team/coordination:** Hille Janhonen Abruquah & Hannah Edjah University of Helsinki, Faculty of Educational Science
- **Partner university:** University of Cape Coast
- **Topic:** Curriculum Convertibility for Remote Learning in Ghanaian Home Economics Education
- The collaboration develops Ghanaian Teacher Education and finds new ways for mutual work.
- We seeks to develop a content and teaching strategy continuity plan for Ghana's Senior High Schools (SHS).
- Researchers will carry out a documentary analysis of the subject matter and teaching strategies of the three-year SHS Home Economics curriculum to identify aspects that need conversion, aspects that can be delivered remotely and aspects that need to be substituted during remote teaching.



# RESEARCH PARTNERSHIPS IN DOCTORAL EDUCATION

- **Team/coordination:**  
Elizabeth Eta & Hanna Posti-Ahokas
- **Partner university:**  
University of Oulu
- **Topic:** Research partnerships in doctoral education
- Research project on Africa-Finland research partnerships in education.
- Analysis of completed PhD. Dissertations in Finnish Universities focusing on education development in Africa.



## **CURRICULUM REFORMS, TEACHER EDUCATION AND INSTRUCTIONAL DESIGN**

- **Team/coordination:** Franklin Nyairo, SEDUCE doctoral program, University of Helsinki, Faculty of Educational Science
- **Partner university (s):** University of Helsinki, University of Embu, Kenya Institute of Curriculum Development
- **Topic:** Preservice English Language Teacher Training in Finland and Kenya
- Doctoral project investigating how English pre-service teachers learn technological pedagogical content knowledge (TPACK) in Finland and Kenya in order to be prepared to fulfill the digitalization ethos stated in the national educational policy documents such as national core curriculum.





# GLOBAL INNOVATION NETWORK IN TEACHING AND LEARNING (AFRICA) – GINTL

- **Team/coordination:** University of Helsinki (Faculty of Educational Sciences) and University of Jyväskylä,
- **Partner Institutions in Finland:** Aalto University, Tampere University, University of Arts Helsinki, University of Eastern Finland, University of Lapland, University of Oulu, University of Turku, University of Vaasa, Åbo Akademi University, Haaga-Helia University of Applied Sciences, Häme University of Applied Sciences, Jyväskylä University of Applied Sciences, Karelia University of Applied Sciences, Laurea University of Applied
- The Global Innovation Network for Teaching and Learning (GINTL) offers a gateway to research-based education cooperation with our partners in the Global South.
- GINTL entails a variety of activities with different implementation modalities, including projects and activities of more limited scope and duration.
- [www.gintl.org](http://www.gintl.org)

