THE DEFENSE TAKES PLACE:
June 21st, 14.30-17.30

TITLE:
Learning and Understanding the Complexity of Fractions

ASSESSMENT COMMITTEE:
• Associate Professor Ole Ravn, Aalborg University (chair)
• Dr. Professor of Mathematics, Emeritus Sybilla Beckmann, University of Georgia
• Professor Morten Blomhøj, DPU, Aarhus University

SUPERVISOR & CO-SUPERVISOR:
• Associate Professor Lars Birch Andreasen (Supervisor)
• Prof. Rasmus Waagepetersen, Aalborg University
  • Prof. Pirjo Aunio, University of Helsinki
  • Prof. Morten Misfeldt, Copenhagen University

VENUE:
VIA University Collage, Ceresbyen 24, 8000 Aarhus
Due to COVID-19 regulations physical participation is only for invited participants. Others can join the defense online.

The defense will be conducted in english
Registration for the event is mandatory here: https://bit.ly/3uTkFbG
Deadline 18th June
RESUME:

This PhD project investigates fourth grade students’ understanding and development of the concept of fractions in a Danish school system setting. There is international consensus about the importance of understanding fractions for students’ further mathematical development, but fraction proficiency has proven to be particularly difficult for some students. In Denmark, there has been limited focus on the topic of fractions, and no quantitative studies have been conducted based on student development of fractions over time. The present PhD project seeks to remedy this knowledge gap in the Danish context.

The dissertation is based on five articles that shed light on various aspects of the development of the concept of fractions, methodologically, empirically, and theoretically. It seeks to answer the overarching research question:

*How can we investigate and explain students’ difficulties with developing the multifaceted concept of fractions in the fourth grade?*