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NORSMA (Nordic Research Network on Special Needs Education in Mathematics) and NCUM (The National Center for the Development of Mathematics Education) invite you to the 11th Nordic Conference on Mathematics Difficulties. The conference will be held in Denmark and will last for two days. It will include several exciting Nordic and international presenters and you will get the opportunity to meet with practitioners, developers, and researchers from the Nordic countries. See subsequent program and further information on the website:

[www.conferences.au.dk/norsma](http://www.conferences.au.dk/norsma).

Key Notes: David C. Geary (USA), Marie-Pascale Noël (Belgium), Minna Hannula-Sormunen (Finland), Helena Roos (Sweden), Helena Skyt Nielsen (Denmark).

The day before the conference, NORSMA and NCUM invite you to a Teacher's Day/annual conference within the theme of mathematics difficulties - aimed at both day care, school, and youth education. See separate invitation and [www.matematikdidaktik.dk](http://www.matematikdidaktik.dk).

<b>Date:</b> (Teacher's Day):	22 November 10.00 - 16.00
<b>Date:</b> (NORSMA conference):	23 November 8.30 - 24 November 15.00
<b>Place:</b>	Danish School of Education, Tuborgvej 164, 2400 Copenhagen NV
<b>Registration:</b>	<a href="http://www.conferences.au.dk/norsma">www.conferences.au.dk/norsma</a>
<b>Price:</b>	<a href="http://www.conferences.au.dk/norsma">www.conferences.au.dk/norsma</a>

*The Danish local committee for NORSMA in collaboration with NCUM*

## Day 1: Thursday, 23 November 2023

8.30-9.00	Room	Registration & morning coffee
9.00-9.20		Welcome event
9.20-10.30	Festsalen 2nd floor	<p style="text-align: center;"><b>Keynote 1</b></p> <p style="text-align: center;"><b>Research on people with dyscalculia: What do we know and where should we go?</b> Professor Marie-Pascale Noël, Psychological Sciences Research Institute, University of Louvain (Belgium)</p>
10.30-10.50		BREAK & WALK TO PAPER SESSION A
10.50 - 12.00	Room	Paper Session A
	A401	<p><b>Group 1</b> Student Jacob Frølund Davis, University of Southern Denmark (DK): <i>Creating a Deeper Understanding of Dyscalculia with a simulation</i> Speech Therapist Jonas Walfridsson, Danderyd University Hospital (SE): <i>Specific Mathematical Difficulties – Diagnosis and Pedagogical and Didactic Actions</i></p>
	A403	<p><b>Group 2</b> Associate Professor Anita Movik Simensen The Arctic University of Norway (NO): <i>Learning Opportunities for Students Achieving low in Mathematics</i> Docent Anette Bagger, Örebro University (SE): <i>Care for the SEM - Students Learning in Mathematics</i></p>
	A405	<p><b>Group 3</b> Associate Lecturers Lise Dausen &amp; Pernille Ladegaard Pedersen, VIA University College (DK): <i>How do Manipulatives Influence Students' Understanding of Fractions?</i> Consultant Pernille Pind &amp; Associate Lecturer Pernille Bødtker Sunde, VIA University College (DK): <i>Difficult Numbers?</i></p>
12.00-13.00		BREAK & LUNCH
13.00 - 14.00	Room	Paper Session B
	A401	<p><b>Group 4</b> Associate Lecturer Heidie Clemens, VIA University College (DK): <i>Guidance Conversations About Students with Maths Difficulties - Potentials and Challenges</i> Associate Professor Edda Óskarsdóttir &amp; Assistant professor Ósk Dagsdóttir, University of Iceland (IS): <i>Developing a Course on Mathematics for all: An Action Research Project</i></p>
	A403	<p><b>Group 5</b> Project Researcher Sonja Solkunen, University of Turku (FI): <i>Building the Finnish Digital Research Ecosystem for Assessment and Interventions of Dyscalculia</i> Teacher Dorthe Riedel &amp; Mathematics Consultant, Mette Thompson (DK): <i>Fostering Numeracy Skills and Understanding Among Students in Helsingør Municipality</i></p>
	A405	<p><b>Group 6</b> Associate Lecturers Per Nygaard Thomsen &amp; Frede Krøjgaard, VIA University College (DK): <i>Upper Secondary Pupils' Thinking and Actions Patterns in Mathematics</i></p>
14.00-14.15		BREAK & WALK TO PAPER SESSION C
14.15-15.15	Room	Paper Session C
	A401	<p><b>Group 7</b> Associate lecturer Lóa Björk Jóelsdóttir and Associate Lecturer Pernille Bødtker Sunde, VIA University College (DK): <i>Strategy use in Multi-Digit Arithmetic: Findings from low Performing Grade 6 Students</i> Associate Lecturer Pernille Ladegaard Petersen, VIA University College (DK): <i>How students explain and understand different variables?</i></p>
	A403	<p><b>Group 8</b> Teacher Bibbi S. Visby, Adult Education Center Fyn (DK): <i>Care for adult learners' confidence at a danish adult learning center – a development study</i> School Consultant Terje Engh Wiig, Oslo Education Agency (NO): <i>Targeted and Organized Mathematics Teaching for Students who Perform Poorly in Mathematics</i></p>
15.15-15.30		BREAK & WALK TO PLENARY
15.30-16.15	Festsalen 2nd floor	<p style="text-align: center;"><b>Keynote 2</b></p> <p style="text-align: center;"><b>Trends in Research on Spontaneous Focusing on Numerosity - Implications for Mathematics Education</b> Professor Minna Hannula-Sormunen, Department of Teacher Education, University of Turku (FI)</p>
16.15-16.30	Festsalen 2nd floor	Summary of today's program
18.30-22.00		CONFERENCE DINNER

## DAY 2: Friday, 24 November 2023

8.30-9.00		MORNING COFFEE
9.00-10.00	Festsalen 2nd floor	<b>Keynote 3</b> <b>Early Development of Number Knowledge: Identifying Risk of Learning Disability</b> Professor David C. Geary, Thomas Jefferson Fellow, Department of Psychological Sciences (USA)
10.00 - 10.45	Festsalen 2nd floor	<b>Keynote 4</b> <b>Access to Mathematics - (How) Can We Create Equity and Inclusion in Mathematics Education?</b> Docent Helena Roos, Associate senior lecturer in mathematics education at Malmø University (SE)
10.45-11.00		BREAK & WALK TO PAPER SESSION D
11.00-12.00		<b>Paper Session D</b>
	A403	<u>Group 9</u> <b>Associate Professor Lena Lindenskov, Aarhus University &amp; Associate Lecturer, Bent Lindhardt, University College Absalon (DK):</b> <i>Dyscalculia test and teaching – results from three Danish Dyscalculia projects</i> <b>Associate Lecturer Michael Wahl Andersen, Professionshøjskolen KP (DK):</b> <i>About teaching mathematics for students with general developmental disorders</i>
	A405	<u>Group 10</u> <b>PhD student Elin Nordbø, University of Stavanger (NO):</b> <i>A Meta-Analysis on the Relation Between Language Interventions for Students With Mathematical Difficulties in Primary School</i> <b>Associate Professor Cecilie Segerby, Kristianstad University &amp; Associate Professor Christina Svensson, Malmø University:</b> <i>Implementing Linguistic Theories in Content-Included Mathematics Teaching</i>
	A200	<u>Group 11</u> <b>Docent Anette Bagger, Örebro University (SE):</b> <i>Proactively Pushing the Relational Frontiers of Mathematics Inclusivity: Enacting Disabled Student Driven Spaces of Rightful Presence</i>
12.00-13.00		LUNCH & EXHIBITION
13.00 - 13.45	Festsalen 2nd floor	<b>Keynote 5</b> <b>Effects of Mathematical Skills on Labour Market Outcomes and Life Conditions</b> Professor Helena Skyt Nielsen, Department of Economics and Business Economics, Aarhus University (DK)
13.45 - 14.30	Festsalen 2nd floor	<b>Panel Debate</b> <b>Nordic Representation</b> <i>Which Ways Are We Moving in the Nordic Countries - and what can we do together?</i>
14.30-15.00	Festsalen 2nd floor	Closing of NORSMA 11 & Announcement of the host of NORSMA 12