



Departmental Seminar

Subtypes of Mathematics Disability: A New Classification Method Based on Cognitive Diagnostic Models and Their Cognitive-Linguistic Correlates

Abstract

Children with mathematics disability (MD) show individual differences in their deficiencies, resulting in different subtypes of MD. Classifying MD subtypes can help researchers and teachers differentiate among MD children with different deficits and develop custom-built interventions, which may improve the effectiveness and efficiency of interventions. In this talk, I will present my work that investigates the classification of MD subtypes using a novel classification method- cognitive diagnostic models, and examines whether domain-general skills, namely, linguistics, working memory, and spatial skills, contribute to the identification of the subtypes.

Dr. Xiangzi OUYANG
University of Hong Kong

About the speaker

Dr. OUYANG, Xiangzi is currently a postdoctoral fellow in the Department of Psychology at the University of Hong Kong. She obtained her Ph.D. from the Faculty of Education at the University of Hong Kong. Her doctoral work focused on children's mathematics learning and mathematics learning disability. She is also interested in how to apply advanced psychological assessments and statistical methods to solve research questions in early childhood cognitive development. Her work has been published in top journals, including *Child Development*, *Cognition*, *Early Childhood Research Quarterly*, and *Contemporary Educational Psychology*.

Date

11 May 2023 (Thursday)

Time

9:30 am - 11:00 am

Venue

Zoom

(Details will be provided on 10 May 2023)

Language

English



Online Registration

<https://cloud.itsc.cuhk.edu.hk/webform/view.php?id=13666602>

Registration Deadline

9 May 2023