



College of Liberal Arts  
and Social Sciences

香港城市大學  
City University of Hong Kong



Department of  
Social and Behavioural Sciences

香港城市大學  
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CAMS

CLASS Advanced Methods School

Modules

# RASCH MODEL AND ITEM RESPONSE THEORY FOR APPLIED SOCIAL SCIENTISTS

Speaker

**Professor Jue Wang**



*Distinguished Research Scientist*

**University of Science and Technology of China, China**



**18-21 JUN  
2024  
(TUE-FRI)**



**09:30 AM -  
12:30 PM  
(HKT)**



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Registration: <https://bit.ly/cams20240618a>





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## Abstract

Social scientists rely on valid measurement tools in their scientific exploration. The investigation on emerging constructs and theories requires the development of new measurement and assessment tools. Measurement theories are also important for applied researchers who want to gain further precision in their measurements. In this module, Professor Wang will introduce the measurement theories related to Rasch and IRT models and provide hands-on experience on constructing measures using both FACETS and R computer programs. Based on Rasch measurement theory, attendees will develop skills necessary to construct and evaluate the measurement instruments in the health, behavioural, and social sciences. Hands-on activities will provide examples with data analysis in different fields and step-by-step tutorial on scale development.

## Speaker Bio

Prof Jue Wang is a professor from the Department of Psychology, School of Humanities and Social Sciences at University of Science and Technology of China. She obtained her PhD at University of Georgia. Her research interests are measurement and psychometric theory with emphasis on item response theory (IRT) models, Rasch measurement models, and unfolding IRT models, hierarchical linear modeling and cross-classification multilevel IRT models, and exploration of rater accuracy and judgments in performance assessments. In 2023, Prof Wang received the Georg William Rasch Early Career Publication Award from American Educational Research Association, Rasch Measurement Special Interest Group.