



The Science of Learning Research Centre would like to invite you to attend the following seminar:

## INVESTIGATING WHAT WORKS, FOR WHOM, & UNDER WHAT CONTEXTS

In our endeavour to evaluate interventions to improve learning, we are constantly asking questions such as 'what works?', 'how does it work?', "through what mechanisms does it work?", 'for whom does it work and under what contexts?' This presentation will discuss potential contributions of statistical modelling in answering some of these questions. The discussions and examples will be conceptual rather than technical.

Mediation models are sometimes used to investigate how an intervention changes the outcome through an intervening mediator. This may help in understanding the mechanisms underlying how the intervention works. Moderation models are used to investigate differential effects on different groups/types of learners.

Examples of mediation models, moderation models and moderated mediation models will be discussed for cross-sectional and longitudinal studies.

Dr Siek Toon Khoo is the Director of the Psychometrics and Methodology Research Program at the Australian Council for Educational Research. Siek Toon studied psychometrics and quantitative research methodology at UCLA. She specialises in psychometrics, measurement issues of educational and psychological constructs, longitudinal modelling and structural equation modelling. Her specific research interests are in the psychometrics of measuring change, longitudinal program evaluation and use of assessment data to improve learning.



**Dr Siek Toon Khoo**  
Director, Psychometrics  
and Methodology  
Research Program  
ACER

### Seminar Details

**Thursday, October 8<sup>th</sup>**

5pm-6pm (light refreshments from 4:30pm)

Radford Room

ACER

19 Prospect Hill Rd,  
Camberwell VIC 3124

### Seminar Registration

Please contact Dee Al-Nawab by **October 5<sup>th</sup>**

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