EDUCATIONAL AND PSYCHOLOGICAL MEASUREMENT COLLOQUIUM SERIES

Analyzing Data from Single-Case Studies

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10:00am - 11:30am
Room 108, Runme Shaw Building, HKU

Abstract
Single-case designs (SCDs) are used in the fields of psychology and education to evaluate the effectiveness of interventions on individuals. In typical SCDs, the intervention effects are usually examined by visual inspection and basic descriptive statistics. A wide variety of effect size measures have also been proposed for quantifying the magnitude of intervention effects in SCDs. Due to many possible complex designs under SCDs, little is known about the sensitivity and effectiveness of the proposed effect size measures under various design conditions and data characteristics. In this talk, I will first introduce various designs in single-case studies. The several types of effect size measures and the logic behind each measure are then discussed. Monte Carlo simulations are used to systematically compare the effect size measures under various design conditions and data characteristics. Empirical data are also used to demonstrate the usages of these measures in single-case studies.

About the Speaker
Dr. Hsiu-Ting Yu is an Associate Professor in the Department of Psychology at the National Chengchi University in Taiwan. She received her PhD in Quantitative Psychology from the University of Illinois at Urbana-Champaign. Her primary research interests focus on the development and application of quantitative methods for data collected in psychological and educational research. She is particularly interested in methodological and analytical issues pertaining to the analysis of multilevel and longitudinal data.

Everyone is welcome to attend!
If interested, please confirm your attendance by sending an email to xtlqiu@hku.hk.