EDUCATIONAL AND PSYCHOLOGICAL MEASUREMENT COLLOQUIUM SERIES


Dr Xue-Lan Qiu
Faculty of Education
The University of Hong Kong

January 29, 2019 (Tuesday)
11:00 - 12:30
Room 108, Runme Shaw Building, HKU

Abstract
Rater errors inevitably affect test scores and subsequent decisions. Past research on rater errors has focused on rater severity and inconsistency, but has neglected rater centrality (e.g., tendency of raters to overuse the middle categories). This talk will focus on a new class of item response theory models within a hierarchical rater model framework that simultaneously account for several rater errors (i.e., severity, inconsistency, and centrality). The results of simulation studies reveal good parameter recovery for the new models. Furthermore, when the centrality effect is ignored, the results show both poor parameter estimation and underestimated test reliability. Two empirical examples are provided. The first example pertains to essays from an Advanced Placement exam, whereas the second to essays from a high-stake national assessment. The talk will conclude with recommendations for the improving the use of ratings in practice and possible directions for future research.

About the Speaker
Dr Xue-Lan Qiu is a Post-Doctoral Fellow in the Faculty of Education at The University of Hong Kong. Prior to joining the HKU, she served as a research member at the Assessment Research Centre at the Education University of Hong Kong. Her research interests include the development of new item response theory and cognitive diagnosis models and methods for analyzing data from educational and psychological measurement and assessment to improve test fairness, objectivity, and efficiency.

Everyone is welcome to attend!

If interested, please confirm your attendance by sending an email to xlqiu@hku.hk.