



Faculty of **Education**  
The University of Hong Kong

## EDUCATIONAL AND PSYCHOLOGICAL MEASUREMENT COLLOQUIUM SERIES

### Combining Individual Participant Data from Multiple Studies: Two Examples from Project INTEGRATE

**Professor Eun-Young Mun**  
Department of Health Behavior and Health Systems  
University of North Texas Health Science Center

**December 20, 2018 (Thursday)**  
**11:00 – 12:30**  
**Room 108, Runme Shaw Building, HKU**

#### **Abstract**

Combining individual participant data from multiple studies is poised to deliver major innovation in research but is quite challenging especially in behavioral research. This talk will provide an overview of the challenges that our research team has experienced when combining item-level individual participant data from multiple studies for research synthesis, as well as the approaches we have taken to address them. This talk will focus on our measurement approaches to establishing a “common metric” for participants from multiple studies via item response theory models as the first necessary step to ensure the same interpretation of data across studies. Two data application examples will be discussed. The first one will be on the relationship between protective behavioral strategies and alcohol-related negative consequences across alcohol consumption levels. The second data example illustrates how to estimate the overall treatment effect size in a meta-analysis of individual participant data.

#### **About the Speaker**

Dr. Eun-Young Mun is a Professor in the Department of Health Behavior and Health Systems at the University of North Texas Health Science Center (UNTHSC). Prior to joining the UNTHSC faculty, she served as a faculty member at the University of Alabama at Birmingham (2002-2006) and at the Center of Alcohol Studies at Rutgers (2006-2012). She currently maintains a graduate faculty appointment in the Department of Statistics and Biostatistics at Rutgers, and collaborates with a large interdisciplinary team of investigators. She is interested in developing and disseminating computational methods for analyzing data from clinical trials and data repositories and for meta-analysis and complex research synthesis.

*Everyone is welcome to attend!*

*If interested, please confirm your attendance by sending an email to [kpsantos@hku.hk](mailto:kpsantos@hku.hk).*