June 8, 2021, 2:00 – 3:30 p.m., online meeting

Keynote Speaker at 6th NEPS conference

Prof. Dr. Matthias von Davier
Boston College, Lynch School of Education

Longitudinal Modeling with Discrete and Continuous Latent Variables

Measuring change in discrete latent variables is not the most common approach to the analysis of longitudinal data. However, there are recent examples of model developments that showcase why these types of models may be of interest. An early example is the latent transition model, which examines latent class membership over time. Another example is the Saltus model, an approach to capture discontinuous development that can be either applied to cross-sectional or, with appropriate extensions, to longitudinal data. Recent examples of more general approaches concerning multiple discrete latent variables can be found in recent literature on diagnostic classification models.

The presentation will compare and contrast discrete and continuous latent variable models for longitudinal approaches, discuss where predictions and model fit may differ, and will provide examples and illustrate fields of application.

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