

## **Mplus Short Courses, Barcelona, Spain, May 31- June 1, 2010**

Two short courses that cover growth modeling, survival analysis, and missing data analysis will be given at IDEC-Universitat Pompeu Fabra, Barcelona, Spain, May 31 and June 1, 2010. In addition, features in the new Mplus Version 6 will be presented at the end of the second day, June 1. The courses cover Topics 3 and 4 of the 8-topic Mplus course sequence. The courses will be taught by Bengt and Linda Muthen. The early-bird fee through March 31 is 180 Euros for the two days. To register, see

<http://www.statmodel.com>

The Barcelona short courses can be combined with a June 3-4 INSERM conference in Saint-Raphael, Provence, France on related topics, including Mplus presentations. See

<http://www.statmodel.com/insermpres.shtml>

### **BARCELONA TOPICS: DAY 1**

#### **GROWTH MODELING WITH LATENT VARIABLES USING MPLUS: INTRODUCTORY AND INTERMEDIATE GROWTH MODELS**

- Typical Examples Of Growth Modeling
- Basic Modeling Ideas
- Growth Modeling Frameworks
- The Latent Variable Growth Model In Practice
- Growth Model Estimation, Testing, And Model Modification
- Simple Examples Of Growth Modeling
- Covariates In The Growth Model
- Centering
- Non-Linear Growth
- Growth Model With Free Time Scores
- Piecewise Growth Modeling
- Intermediate Growth Models
- Growth Model With Individually Varying Times Of Observation and Random Slopes For Time-Varying Covariates
- Alternative Models With Time-Varying Covariates
- Regressions Among Random Effects
- Growth Modeling With Parallel Processes
- Categorical Outcomes: Logistic and Probit Regression
- Growth Modeling With Categorical Outcomes
- Modeling With Preponderance of Zeroes
- Two-Part Growth Modeling

### **BARCELONA TOPICS: DAY 2**

## GROWTH MODELING WITH LATENT VARIABLES USING MPLUS: ADVANCED GROWTH MODELS, SURVIVAL ANALYSIS, AND MISSING DATA

- General Latent Variable Modeling Framework
- Advanced Growth Models
- Regression With a Count Dependent Variable: Poisson And Negative Binomial
- Philadelphia Crime Data Zero-Inflated Poisson Growth Modeling
- Growth Modeling With Multiple Populations
- Growth Modeling With Multiple Indicators
- Embedded Growth Models
- Power For Growth Models
- Survival Analysis
- Discrete-Time Survival Analysis
- Continuous-Time Survival Analysis
- Analysis With Missing Data
- MAR
- Missing Data Correlates Using ML
- Non-Ignorable Missing Data
- Pattern-Mixture Missing Data Growth Modeling
- Selection Missing Data Growth Modeling
- Missing Data Analysis Examples
- New features in Mplus Version 6

Bengt Muthen