

# INTRODUCTION TO MULTILEVEL MODELING

## *With Applications in SPSS*

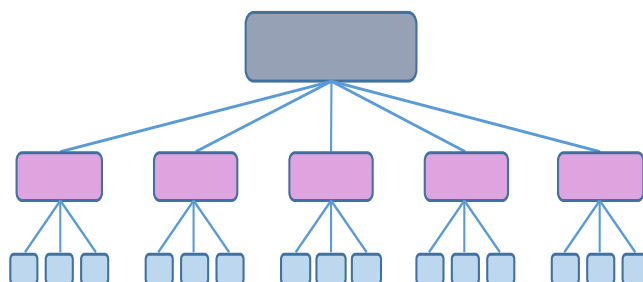
**TWO-DAY COURSE**  
**in English**

**FEBRUARY 2<sup>nd</sup> & 3<sup>rd</sup>**

**10:30am – 6:00pm**

**Humanities and Social Science  
Classroom Bldg. W513**

**Registration via email (required)  
by January 27th:  
[hommerich@let.hokudai.ac.jp](mailto:hommerich@let.hokudai.ac.jp)**



*taught by*

**Nate Breznau, PhD Sociology**, Postdoctoral Fellow  
Mannheim Centre for European Social Research,  
University of Mannheim, Germany

As an experienced researcher, Nate Breznau has not only used multilevel modeling in his own research, but is also known for his easy to follow and fun teaching style. For more info:  
<https://sites.google.com/site/nbreznau/home>

This course offers a general introduction to multilevel modeling as a set of scientific statistical methods, and as a perspective of logic and reasoning about how the world is structured or nested in layers. Students with everything from none to intermediate knowledge of multilevel techniques are welcome to join. No previous knowledge is necessary. Using data you will learn how, or improve your current knowledge of how, to estimate the effect of one thing on another (the effect of X on Y) when these things occur at different levels, for example, individuals in schools or countries, teams in leagues, robots in factories, or time points observed within the same persons.

The course is open for researchers and graduate students and will be English. For more information and to register (required), please email: [hommerich@let.hokudai.ac.jp](mailto:hommerich@let.hokudai.ac.jp) (Carola Hommerich, Associate Professor, Department of Sociology)

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Support Office for Female Researchers in Hokkaido University

## 1 WORKSHOP SCHEDULE

Note that this is a working schedule and may be changed or updated.

### Thursday, February 2<sup>nd</sup>

10:30am	Welcome and Introductions
10:45am	Introduction to Multilevel Models
	When do I need a multilevel model?
12:00pm	Analyzing Multilevel Data with SPSS
	Basic code and decomposing variance
1:00pm	<i>Lunch break</i>
2:00pm	Effects in Multilevel Models
	Intercepts and slopes
	Mean centering, effect sizes
3:45pm	<i>Short break</i>
4:00pm	Effects continued
	Random-, fixed-, and mixed-effect models
	More coding examples
6:00pm	End

### Friday, February 3<sup>rd</sup>

10:30am	Cross-level Interactions (i.e., Mediation/Moderation)
12:00pm	Graphing Multilevel Results
	BLUPs, assumptions and marginal effects
1:00pm	<i>Lunch break</i>
2:00pm	Graphing Continued
3:45pm	<i>Short break</i>
4:00pm	Longitudinal modeling
	Assumptions and effects
	Language: “fixed-effects” v. “random-effects”
6:00pm	End