



## Introduction to Structural Equation Modelling using Mplus (S20)

10 - 14 August 2026

Course Director: *Dr. Rebecca Kuiper*

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Day	Time	Type	Description	Location
Monday	09:00 -12:15	<i>Lecture</i> Dr. Beth Grandfield	Introduction to Mplus; how to get your data into Mplus; regression analysis; and factor analysis.	<a href="#"><u>Koningsberger building</u></a> room COSMOS
	12:15 -13.15	<i>Lunch</i>		
	13:15 -16:30	<i>Computer lab*</i>		
Tuesday	09:00 -12:15	<i>Lecture</i> Dr. Beth Grandfield & <i>Computer lab*</i>	How to conduct CFA/EFA in Mplus; discussion of measurement invariance and its recent advances; introduction to bootstrap.	
	12:15 -13.15	<i>Lunch</i>		
	13:15 -16:30	<i>Lecture</i> Dr. Beth Grandfield & <i>Computer lab*</i>		
Wednesday	09:00 -12:15	<i>Lecture</i> Prof. dr. Ellen Hamaker & <i>Computer lab*</i>	How to combine path analysis and factor analysis; and additional key SEM topics (e.g., nesting of models, mediation and moderation, and path tracing rules).	
	12:15 -13.15	<i>Lunch</i>		
	13:15 -16:30	<i>Lecture</i> Prof. dr. Ellen Hamaker & <i>Computer lab*</i>		
Thursday	09:00 -12:15	<i>Lecture</i> Prof. dr. Ellen Hamaker & <i>Computer lab*</i>	Introducing longitudinal data analysis and thinking about causality using mediation analysis and the cross-lagged panel design; discussion of issues such as stable between-person differences, measurement error, and the lag-problem.	
	12:15 -13.15	<i>Lunch</i>		
	13:15 -16:30	<i>Lecture</i> Prof. dr. Ellen Hamaker & <i>Computer lab*</i>		
Friday	09:00 -16:30	<i>Computer lab*</i>  <i>Supervised by</i> Prof. dr. Ellen Hamaker and Dr. Beth Grandfield	Room for individual consultation and to work on own data.**	

For information about the Social Programme, please have a look at the last page of this document or visit the [Utrecht Summer School website!](#)



### \* Remarks Computer lab

During the computer lab meetings, we will make use of software including *Mplus 9*. In case you do not have *Mplus (version 8.11 or higher)* on your own laptop, *Mplus* will be available via SolisWorkspace (SWS). You can access this via your SolisID (for more information regarding the SolisID, see the pre-departure e-mail).

Manuals for using SWS are available via the following links.

General (brief): <https://students.uu.nl/en/myworkplace>

Windows (more details): <https://manuals.uu.nl/en/handleiding/myworkplace-windows-10/>

MacOS (more details): <https://manuals.uu.nl/en/handleiding/myworkplace-macos/>

Please check before the start of the course whether you can access *Mplus* in this way.

### \*\* Remarks Day 5 (consultation day)

On Day 5, there is a consultation day. On this day, you can apply the techniques you learned on this course to your own data.

In case you need assistance with more advanced techniques, you can also ask for help with this, but priority will be given to questions regarding the topics discussed during the lectures.

In case you want to learn more about advanced SEM techniques, you can

- Depending on the techniques you like to apply, sign up for our Utrecht Summer School course 'Advance course on using *Mplus*' (course code S23).
- Ask for (paid) consultation from someone from the M&S department. In that case, please contact Mirjam Moerbeek ([M.Moerbeek@uu.nl](mailto:M.Moerbeek@uu.nl)). Note that we cannot guarantee that someone will be available.

### Breaks

- ✓ 8.30 coffee & tea
- ✓ 10.30 coffee & tea
- ✓ 12.15-13.15 (or an hour around 12.45 – 13.15) lunch  
On Monday take a break from 12.15-13.15, because ICT people will be available at 13.15!
- ✓ 14.30 soda drinks

### Questions

- If you have any course-related questions, please let us know ([MS.SummerSchool@uu.nl](mailto:MS.SummerSchool@uu.nl)).
- In case of other questions (e.g., related to housing), contact **Utrecht Summer School Organization** ([info@utrechtsummerschool.nl](mailto:info@utrechtsummerschool.nl) or +31 (0) 30 253 4400).

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