



**Modeling the dynamics of intensive longitudinal data**

**(Course code S36)**

**21 - 25 August 2023**

Course Director: *Prof dr. Ellen Hamaker*

Lecturers: *Ellen Hamaker, Noémi Schuurman, Laura Bringmann, Oisín Ryan, and Rebecca Kuiper*

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Day	Time	Type	Description	Lecturer	Location
Monday	09:00 -10:15	Lecture 1	Introduction to dynamic modelling	Ellen Hamaker	<a href="#">Ruppert building,</a> room 'D'
	10:15-10:30	Break			
	10:30-11:45	Lecture 2	Stationary models for N=1: the univariate ARMA model	Ellen Hamaker	
	11:45-13:00	Lunch	In <a href="#">Educatorium</a>		
	13:00-14:00	Lecture 3	Stationary models for N=1: the multivariate VAR model	Ellen Hamaker	
	14:00-14:30	Break			<a href="#">Ruppert building,</a> room 002
	14:30-16:30	Lab	Apply what you have learned in <i>R</i> or <i>Mplus</i>		
Tuesday	09:00 -10:15	Lecture 1	Introduction to multilevel modelling: N=1 versus N=many	Noémi Schuurman	<a href="#">Ruppert building,</a> room 'D'
	10:15-10:30	Break			
	10:30-11:45	Lecture 2	Multilevel VAR models	Noémi Schuurman	
	11:45-13:00	Lunch	In <a href="#">Educatorium</a>		
	13:00-14:00	Lecture 3	Multilevel models with level 2 predictors	Noémi Schuurman	
	14:00-14:30	Break			<a href="#">Ruppert building,</a> room 002
	14:30-16:30	Lab	Apply what you have learned in <i>R</i> or <i>Mplus</i>		



Day	Time	Type	Description	Lecturer	Location
Wednesday	09:00 -10:15	Lecture 1	Measurement error in multilevel models	Noémi Schuurman	<a href="#">Ruppert building, room 'D'</a>
	10:15-10:30	Break			
	10:30-11:45	Lecture 2	Dynamic network models	Laura Bringmann	
	11:45-13:00	Lunch	In <a href="#">Educatorium</a>		<a href="#">Ruppert building, room 002</a>
	13:00-14:00	Lecture 3	Advanced issues for dynamic modeling	Noémi Schuurman & Laura Bringmann	
	14:00-14:30	Break			
	14:30-16:30	Lab	Apply what you have learned in R or Mplus		
Thursday	09:00 -10:15	Lecture 1	Nonstationary models: gradual versus sudden change	Laura Bringmann	<a href="#">Ruppert building, room 'D'</a>
	10:15-10:30	Break			
	10:30-11:45	Lecture 2	Continuous time modeling (part 1)	Oisín Ryan & Rebecca Kuiper	
	11:45-13:00	Lunch	In <a href="#">Educatorium</a>		<a href="#">Ruppert building, room 002</a>
	13:00-14:00	Lecture 3	Continuous time modeling (part 2)	Oisín Ryan & Rebecca Kuiper	
	14:00-14:30	Break			
	14:30-16:30	Lab	Apply what you have learned in R or Mplus		
Friday	09:00-11:45		Presentations by young researchers on methodological challenges		<a href="#">Ruppert building, room 'D'</a>
	11:45-13:00	Lunch	In <a href="#">Educatorium</a>		
	13:00-15:30		Consultation master class		<a href="#">Ruppert building, room 'D'</a>