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YouthLife

YouthLife Training Course II: Causal Analysis with Longitudinal Data

Webinars via ZOOM
January 26th-28th, 2022

Note: The schedule is given in three time zones: CET (Central European Time) for UNI BA and NIDI, GMT (Greenwich Mean Time) for Southampton, and EET (Eastern European Time) for Tallinn University participants.

Wednesday, 26 January 2022			Causal Models, Causal Evidence, and Longitudinal Data Analysis
GMT	CET	EET	
08:00–08:15	09:00–09:15	10:00–10:15	Welcome and introduction to the workshop <i>Prof. Hans-Peter Blossfeld, Dr. Gwendolin J. Blossfeld & Dr. Lydia Kleine</i>
08:15–09:45	09:15–10:45	10:15–11:45	Opportunities and limitations of causal inference based on observational and randomized controlled trial (RCT) data - Introduction <i>Prof. Hans-Peter Blossfeld & Dr. Gwendolin J. Blossfeld</i>
09:45–10:00	10:45–11:00	11:45–12:00	Break
10:00–11:30	11:00–12:30	12:00–13:30	Opportunities and limitations of causal inference based on observational and randomized controlled trial (RCT) data – Causes of effects <i>Prof. Hans-Peter Blossfeld & Dr. Gwendolin J. Blossfeld</i>
11:30–12:30	12:30–13:30	13:30–14:30	Lunch break
12:30–14:00	13:30–15:00	14:30–16:00	Opportunities and limitations of causal inference based on observational and randomized controlled trial (RCT) data – Effects of causes <i>Prof. Hans-Peter Blossfeld & Dr. Gwendolin J. Blossfeld</i>
14:00–14:15	15:00–15:15	16:00–16:15	Break
14:15–15:45	15:15–16:45	16:15–17:45	Opportunities and limitations of causal inference based on observational and randomized controlled trial (RCT) data – Causation as a generative process <i>Prof. Hans-Peter Blossfeld & Dr. Gwendolin J. Blossfeld</i>

Thursday, 27 January 2022			Structural Equation Modeling
GMT	CET	EET	
09:00–10:30	10:00–11:30	11:00–12:30	Structural Equation Modeling as an Approach to Longitudinal Data Analysis <i>Prof. Tenko Raykov</i>
10:30–10:45	11:30–11:45	12:30–12:45	Break
10:45–13:15	11:45–13:15	12:45–14:15	Structural Equation Modeling Applications for Longitudinal Data Analysis, Part 1 <i>Prof. Tenko Raykov</i>



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12:15-13:15	13:15-14:15	14:15-15:15	Lunch break
13:15-14:45	14:15-15:45	15:15-16:45	Structural Equation Modeling Applications for Longitudinal Data Analysis, Part 2 <i>Prof. Tenko Raykov</i>
14:45-15:00	15:45-16:00	16:45-17:00	Break
15:00-16:30	16:00-17:30	17:00-18:30	Clustering of individual temporal development trajectories using latent class and latent profile analysis <i>Prof. Tenko Raykov</i>

Friday, 28 January 2022			Growth Curve Modeling (incl. Mixture Models)
GMT	CET	EET	
08:00-09:30	09:00-10:30	10:00-11:30	Growth curve analysis in sociological life course research <i>Prof. Juho Härkönen</i>
09:30-09:45	10:30-10:45	11:30-11:45	Break
09:45-11:15	10:45-12:15	11:45-13:15	Growth trajectories with random effects models <i>Prof. Juho Härkönen</i>
11:15-12:15	12:15-13:15	13:15-14:15	Lunch break
12:15-13:45	13:15-14:45	14:15-15:45	Growth trajectories with random slopes models <i>Prof. Juho Härkönen</i>
13:45-14:00	14:45-15:00	15:45-16:00	Break
14:00-15:30	15:00-16:30	16:00-17:30	Growth trajectories with fixed effects models <i>Prof. Juho Härkönen</i>

About the workshop: The first day will introduce to the opportunities and limitations of causal inference based on observational and randomized controlled trial (RCT) data. The second day is going to introduce into Structural Equation Modeling (SEM) from a more technical perspective using examples from psychology. Finally, the participants will learn about Growth trajectories with fixed and random effects models applying sociological examples.

Target group: Researchers and PhD students from all disciplines

Group size: max. 12 persons

Professor Hans-Peter Blossfeld is Emeritus of Excellence at the University of Bamberg. He is the founder of the NEPS and held a Chair of Sociology at the University of Bamberg from 2002 until 2020. 2012-2017, he was on leave to take over the Chair of Sociology at the European University Institute in Florence, Italy. He is an internationally renowned expert on life-course research, statistical methods for longitudinal data analysis, modern methods of quantitative social research, cross-national research, social inequality, youth, family, educational sociology, labour market research, demography, and social stratification and mobility.

Dr. Gwendolin J. Blossfeld is Postdoc in the Twinning Project 'Youthlife' and the DFG priority programme 1646 'Education as a Lifelong Process. Analyzing Data of the National Educational Panel Study (NEPS)' both located at the University of Bamberg. Her substantive research interests are in the fields of methods of longitudinal data analysis, educational sociology, social inequality, and demography.



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Prof. Juho Härkönen is Professor of Sociology at the European University Institute (on leave from Stockholm University), Director of the Max Weber Programme for Postdoctoral Studies, and editor-in-chief of *Advances in Life Course Research*. His research interests cover life course research, the causes and consequences of family dynamics and structure, social stratification, and health. His recent publications have covered antecedents and outcomes of divorce, occupational careers, social stratification in health, and educational inequality.

Dr. Lydia Kleine is a Research Assistant at the Research Unit 'Research Data Center (FDZ)' at the Leibniz Institute for Educational Trajectories (LifBi). Her work includes studies on the linkage between social inequality and educational success (especially social relations and educational decision making), migration and integration, gender disparities as well as data sharing and data reuse.

Prof. Tenko Raykov is a Professor of Measurement and Quantitative methods at Michigan State University, USA. He specializes in statistical and mathematical modeling of behavioral phenomena, educational and behavioral measurement, and modeling of developmental processes. He is involved in research on evaluation of behavioral measurement reliability and validity, instrument construction and development, analyses of data sets with missing values, mixture modeling, and applications of latent variable modeling to behavioral development across the life span.

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