

Course type: Workshop

## Meta-analytic Structural Equation Modeling

### Organizational details

Instructor: *Dr Suzanne Jak*  
Date: November 12, 9.00 am – 5.00 pm  
Location: Will be announced shortly, online should co-presence be impossible  
ECTS: 1 ECTS

To gain the ECTS, participants have to:

- Read literature
- Attend lecture
- Perform in-class exercises

Max. number of participants: 15

### Objectives

The objective of this workshop is to learn the basics of meta-analytic structural equation modeling (MASEM) and to get practical experience with fitting MASEM models using a dedicated online app and using the metaSEM package in R. The workshop will focus on the analysis part of meta-analysis (so it will not cover the search process and coding of the data).

### Content & Methods

The first half of this one-day workshop will be lecture time. The second half of the day will be a practical in which participants apply MASEM using the metaSEM package in R and a dedicated Shiny app.

Content of the lecture:

- Brief introduction to meta-analysis and structural equation modeling
- Methods for MASEM
- Heterogeneity in MASEM
- Example of a meta-analytic path model
- Example of a meta-analytic factor model

Content of the practical:

- Preparing data
- Fitting a meta-analytic path model in R
- Fitting a meta-analytic path model using the Shiny app

- Optional: Perform a moderator analysis with categorical or continuous moderator

**Participants need to bring their own laptop with R and the metaSEM package installed.**

### **Target group & Course Language**

Doctoral candidates, postdoctoral researchers, academic faculty.

Participation requirements: Attending this workshop will pay off best if you have some basic experience with R. In case participants do not have experience with R, they are required to go through some introductory material (to be announced) before the workshop. Basic knowledge of SEM and meta-analysis is helpful but not required.

Course language: English

### **About the instructor**

Suzanne Jak is assistant professor at the University of Amsterdam. Her research focusses on structural equation modeling (SEM) in general, and specifically in combination with meta-analysis, measurement invariance, and multilevel data. She published a book about MASEM in the SpringerBriefs series in Research Synthesis and Meta-Analysis (author's version freely available through: [www.suzannejak/masem](http://www.suzannejak/masem)).

By \*\*\***October 1, 2020**\*\*\* via e-mail at [info@ggs.uni-giessen.de](mailto:info@ggs.uni-giessen.de).