FRIEDRICH-SCHILLER-
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JENA

Center for Lifespan
Developmental Science

CELISE
METHOD WORKSHOP

Introduction to Continuous Time Dynamic Modeling

Presented by

Prof. Dr. Manuel Völkle

March 11th 2021, 9:00-12:15 via Zoom

Continuous time dynamic modeling is a powerful approach for the analysis of longitudinal data that makes optimal use of the time structure to infer the development and dynamic relationships among psychological constructs. The goal of this workshop is to introduce participants to continuous time dynamic modeling. The workshop will be delivered in three parts that build upon each other. In the first part, I will introduce the basics of continuous time dynamic modeling in a stepwise fashion. This part constitutes the core of the workshop. It is of a primarily conceptual, non-technical, nature. After having attended this part, you will know what continuous time dynamic models are and what they are good for. In the second part, I will demonstrate how to set up and run basic continuous time models in R. After having attended this part, you will know how to implement selected models using existing code and data. In the third part, I will discuss specific applications such as $N = 1$ time-series models (e.g., dynamic factor models) and oscillating processes. We will also have some time to talk about technical aspects and address open questions. After having attended this part, you will be prepared to start exploring the literature on continuous time dynamic models in more detail and to adapt the approach to your own needs.

Funding provided by the FSU Graduate Academy

There is no cost for participants, but registration is required via email to Jennifer.Bellingtier@uni-jena.de by March 1st. Space is limited.

http://www.celise.uni-jena.de/