

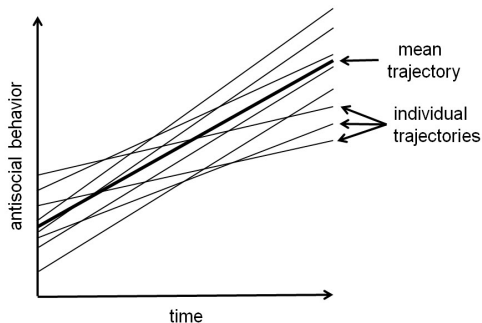
# SEM 1: Confirmatory Factor Analysis

Week 3 - Latent growth models

Sacha Epskamp

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# Latent Growth Model



Score of person  $i$  on time  $t$ :

$$y_{ti} = \text{int}_i + \text{slope}_i \times t + \varepsilon_{ti}$$

Since we know  $t$  (e.g., 1, 2, 3...), we can treat the intercept and slope as **latent** variables and plug  $t$  into factor loadings!

