

## **Alignment of longitudinal models**

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We describe an adaptation of the multiple group alignment methodology to longitudinal models. Latent variables are measured repeatedly across time with possible measurement non-invariance. The alignment method allows us to estimate time specific latent variable distribution in addition to time specific measurement models. We describe a connection between the alignment method, the penalized maximum-likelihood method and the Bayesian SEM method. This allows us to utilize the alignment methodology in a variety of longitudinal models such as growth models and RI-CLPM models.