

## Supplementary Material

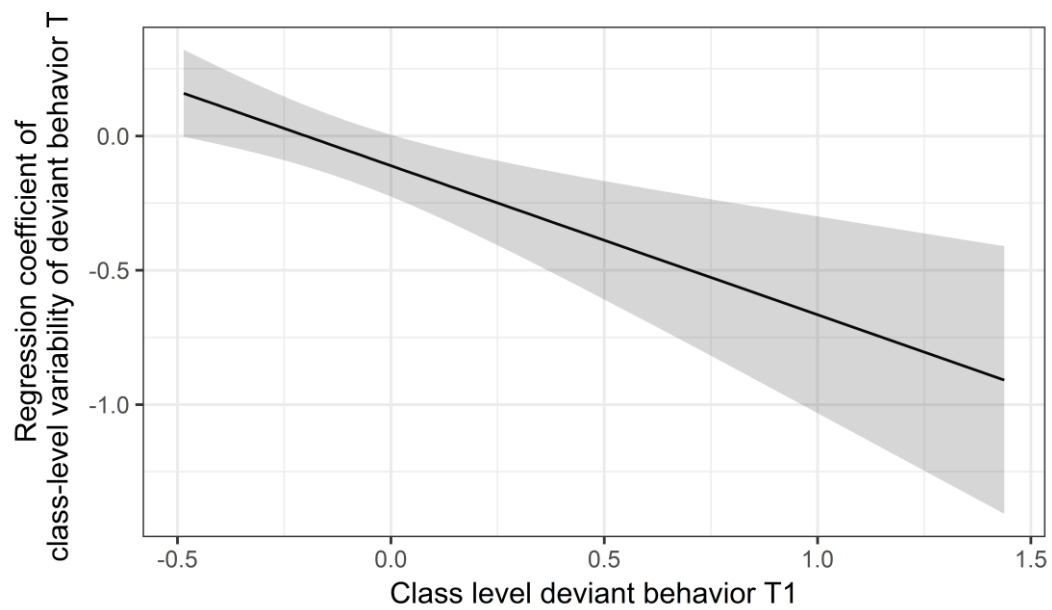
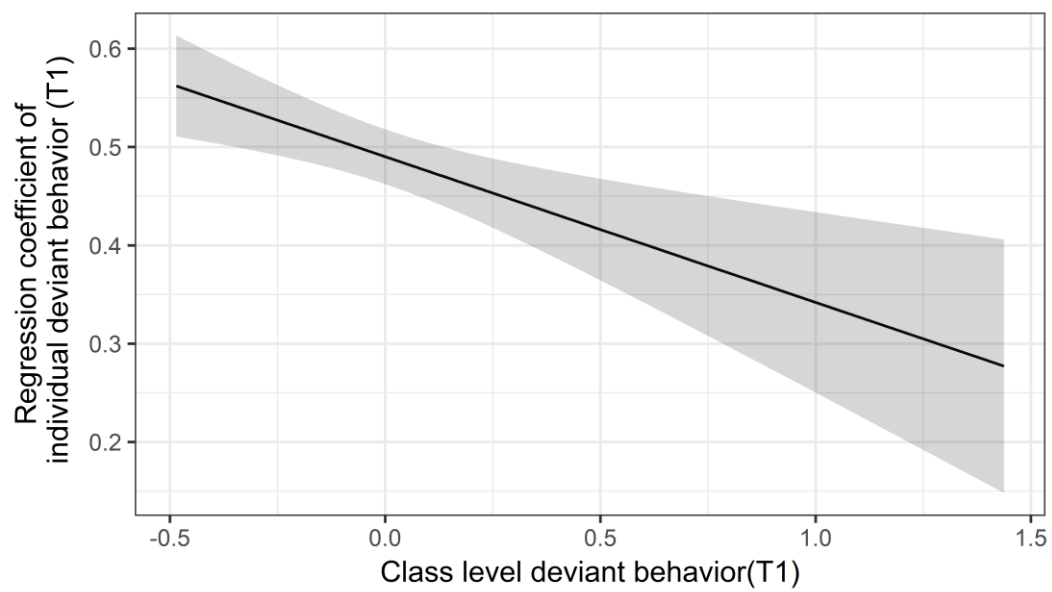
The full sample in the data set comprised 3,404 classes. However, the majority of classes participated only once ( $n = 2,048$  classes) and were therefore unsuitable for a longitudinal analysis. A total of 1,356 classes participated in at least two data waves. From these, three had no neighboring time points, 29 had fewer than five participants per class, and 16 did not report academic achievement, which was needed as a covariate. These 48 classes were excluded from the analysis. Only 29 % ( $n_{\text{classes}} = 394$ ) participated in all three waves, which means that 71 % of the classes had one missing measurement point. Since recent simulations of approaches to deal with missing data in multi-level settings do not even consider such high rates (e.g.; Enders, Mistler, & Keller, 2016; Lüdtke, Robitzsch, & Grund, 2016), we decided against using these approaches and used only two measurement points.

## Multicollinearity Diagnostics

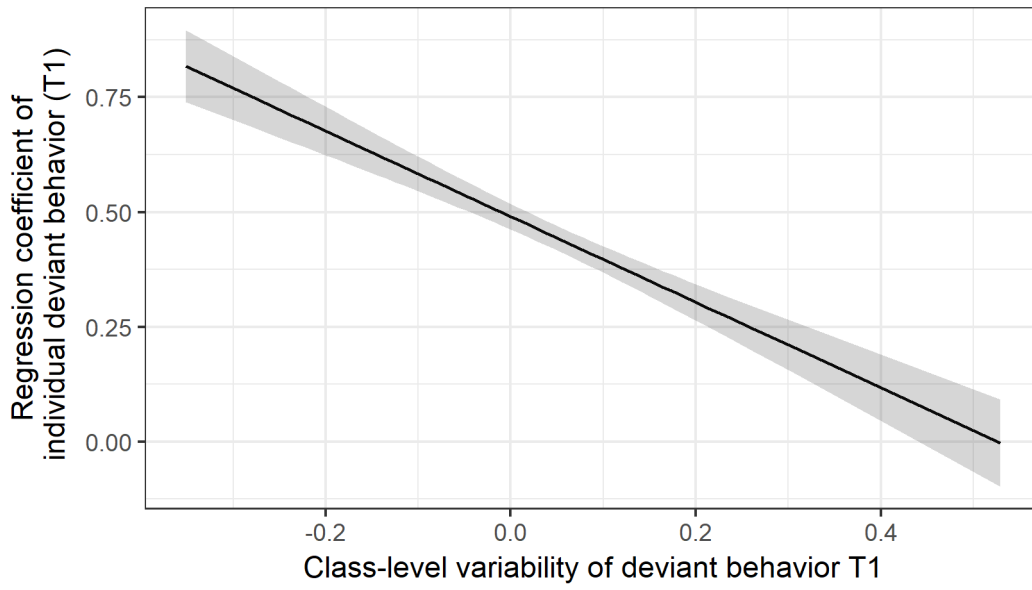
|  | Variance Inflation Factors |         |         |
|--|----------------------------|---------|---------|
|  | Model 1                    | Model 2 | Model 3 |
| (Intercept)  |                            |         |         |
| Gender   | 1.02                       | 1.03    | 1.66    |
| Age  | 1.28                       | 1.28    | 1.28    |
| Migration background <sup>2</sup>                                  | 1.02                       | 1.02    | 1.02    |
| Academic performance T1  | 1.10                       | 1.10    | 1.10    |
| School track   | 1.20                       | 1.20    | 1.20    |
| Individual deviant behavior T1                                     | 1.03                       | 1.60    | 1.68    |
| Class-level deviant behavior T1                                    | 2.20                       | 2.21    | 2.27    |
| Class-level variability T1   | 1.93                       | 1.94    | 2.02    |
| Class-level deviant beh. x Class variability                       | 1.20                       | 1.21    | 1.25    |
| Class level x Individual deviant beh.                              |                            | 2.03    | 2.12    |
| Class variability x Individual deviant beh.                        |                            | 1.75    | 1.88    |
| Class level x Class variability x Individual deviant beh.          |                            | 2.17    | 2.29    |
| Individual deviant beh. x Gender                                   |                            |         | 2.04    |
| Class level x Gender   |                            |         | 1.98    |
| Class variability x Gender   |                            |         | 2.12    |
| Class level x Individual deviant beh. x Gender                     |                            |         | 2.65    |
| Class variability x Individual deviant beh. x Gender               |                            |         | 2.48    |
| Class level x Class variability x Gender                           |                            |         | 1.79    |
| Class level x Class variability x Individual deviant beh. x Gender |                            |         | 3.17    |
| Condition index (kappa)  | 8.99                       | 8.44    | 10.60   |

**Model without covariates**

|  | Model 1 |               | Model 2 |               | Model 3 |               |
|--|---------|---------------|---------|---------------|---------|---------------|
|  | est     | CI            | est2    | CI2           | est3    | CI3           |
| (Intercept)  | 1.61*   | [1.59,1.63]   | 1.61*   | [1.59,1.63]   | 1.61*   | [1.59,1.63]   |
| Class-level deviant behavior T1  | 0.50*   | [0.44,0.56]   | 0.50*   | [0.45,0.56]   | 0.51*   | [0.45,0.56]   |
| Class-level variability T1   | -0.15*  | [-0.26,-0.04] | -0.17*  | [-0.28,-0.07] | -0.18*  | [-0.29,-0.07] |
| Individual deviant behavior T1   | 0.42*   | [0.4,0.44]    | 0.50*   | [0.47,0.53]   | 0.50*   | [0.47,0.52]   |
| Gender   | 0.09*   | [0.08,0.1]    | 0.09*   | [0.08,0.1]    | 0.10*   | [0.08,0.11]   |
| Class-level deviant behavior T1 x Class-level variability T1   | -0.86*  | [-1.17,-0.56] | -0.91*  | [-1.21,-0.62] | -0.90*  | [-1.21,-0.61] |
| Class-level deviant behavior T1 x Individual deviant behavior T1                                       |         |               | -0.14*  | [-0.22,-0.05] | -0.13*  | [-0.22,-0.05] |
| Class-level variability T1 x Individual deviant behavior T1  |         |               | -0.95*  | [-1.13,-0.77] | -0.98*  | [-1.16,-0.79] |
| Class-level deviant behavior T1 x Gender   |         |               |         |               | 0.00    | [-0.05,0.04]  |
| Class-level variability T1 x Gender  |         |               |         |               | 0.02    | [-0.06,0.11]  |
| Individual deviant behavior T1 x Gender  |         |               |         |               | 0.01    | [-0.01,0.03]  |
| Class-level deviant behavior T1 x Class-level variability T1 x Individual deviant behavior T1          |         |               | 0.26    | [-0.28,0.81]  | 0.37    | [-0.17,0.93]  |
| Class-level deviant behavior T1 x Class-level variability T1 x Gender                                  |         |               |         |               | -0.27*  | [-0.49,-0.03] |
| Class-level deviant behavior T1 x Individual deviant behavior T1 x Gender                              |         |               |         |               | -0.01   | [-0.08,0.05]  |
| Class-level variability T1 x Individual deviant behavior T1 x Gender                                   |         |               |         |               | 0.03    | [-0.12,0.17]  |
| Class-level deviant behavior T1 x Class-level variability T1 x Individual deviant behavior T1 x Gender |         |               |         |               | -0.05   | [-0.46,0.38]  |
| sigma  | 0.58*   | [0.58,0.59]   | 0.58*   | [0.58,0.59]   | 0.58*   | [0.58,0.59]   |
| sig01.idclass  | 0.08*   | [0.06,0.09]   | 0.06*   | [0.05,0.07]   | 0.06*   | [0.05,0.07]   |
| sig01.idclass.1  | 0.02*   | [0.02,0.03]   | 0.02*   | [0.02,0.03]   | 0.02*   | [0.02,0.03]   |
| sig01.idschr   | 0.00*   | [0.00,0.01]   | 0.00*   | [0.00,0.01]   | 0.00*   | [0.00,0.01]   |

**JN-Charts****Figure 1:****Figure 2:**

**Figure 3:**



**Figure 4:**

