

**Supplementary analysis for Study 1 –  
cross-lagged panel model with observed variables**

We initially intended to analyse Study 1 with a path model connecting only observed variables. However, as a reviewer pointed out, this does not allow for the testing of measurement invariance, so that we now present a full SEM in the article. To demonstrate robustness, we show the results of the model with observed variables here.

***Longitudinal association between contact and valuing diversity***

In order to test Hypotheses 1 and 2, we estimated a cross-lagged panel model linking positive and negative contact experiences and the valuing of diversity. For that, we first estimated a multi-group model with separate parameters for the two universities and compared it to a model in which all parameters were constrained to be equal across the two universities. The more parsimonious constrained model did not show worse fit,  $\chi^2(21) = 12.98, p = .91$ , so that a pooling of the samples was warranted. The resulting model is shown in Figure S1.1; paths not shown had  $p$ -values above .1 and the coefficients are fully standardised. All auto-regression paths were substantial and significant. Negative contact at T1 predicted lower valuing of diversity at T2, with  $\beta = -0.19, p = .014, 95\% \text{ CI } [-0.33, -0.04]$ , while more frequent positive contact had the opposite effect, with  $\beta = 0.16, p = .024, 95\% \text{ CI } [0.02, 0.30]$ . In the opposite direction, valuing diversity at T1 did not significantly predict positive contact at T2, with  $\beta = 0.10, p = .13, 95\% \text{ CI } [-0.03, 0.24]$  or negative contact at T2, with  $\beta = -0.07, p = .35, 95\% \text{ CI } [-0.20, 0.07]$ . Full results are reported in Table S1.1.

[FIGURE 1 AROUND HERE]

**Table S1.1.** *Results of the Cross-Lagged Panel Model Connecting Contact and Valuing Diversity – using observed variables (Study 1)*

Predictor	Valuing diversity (T2)		Positive contact (T2)		Negative contact (T2)	
	$\beta$ [95% CI]	$p$	$\beta$ [95% CI]	$p$	$\beta$ [95% CI]	$p$
Valuing diversity (T1)	0.42 [0.28, 0.56]	< .001	0.10 [-0.03, 0.24]	.133	-0.07 [-0.20, 0.07]	.353
Positive contact (T1)	0.16 [0.02, 0.30]	.024	0.52 [0.38, 0.66]	< .001	-0.03 [-0.17, 0.11]	.666
Negative contact (T1)	-0.19 [-0.33, -0.04]	.014	-0.00 [-0.15, 0.14]	.959	0.56 [0.42, 0.71]	< .001

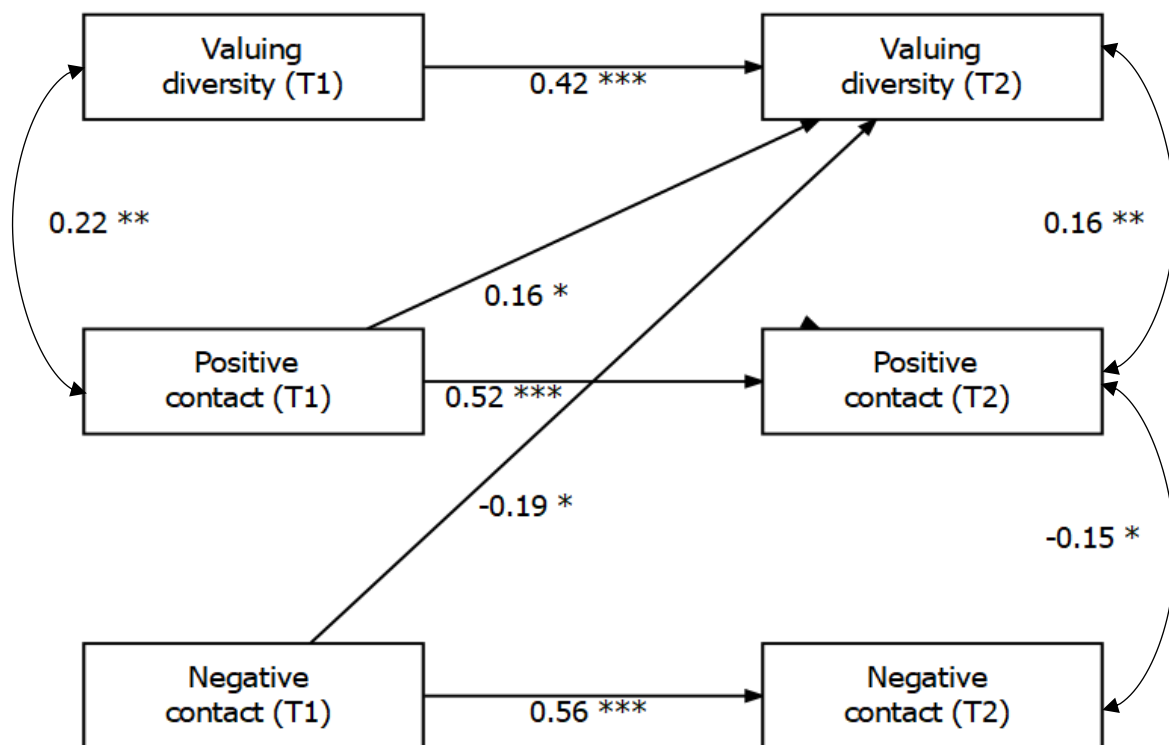
Notes:

Standardised coefficients estimated with full-information maximum-likelihood.

T1: Measured at timepoint 1

T2: Measured at timepoint 2

**Figure S1.1.** *Cross-lagged panel model connecting contact and valuing diversity – using observed variables (Study 1)*



Notes:

Standardized coefficients; paths with  $p$ -values above .1 are not shown for simplicity

\*  $p < .05$ , \*\*  $p < .01$ , \*\*\*  $p < .001$