Schola-styled Word document

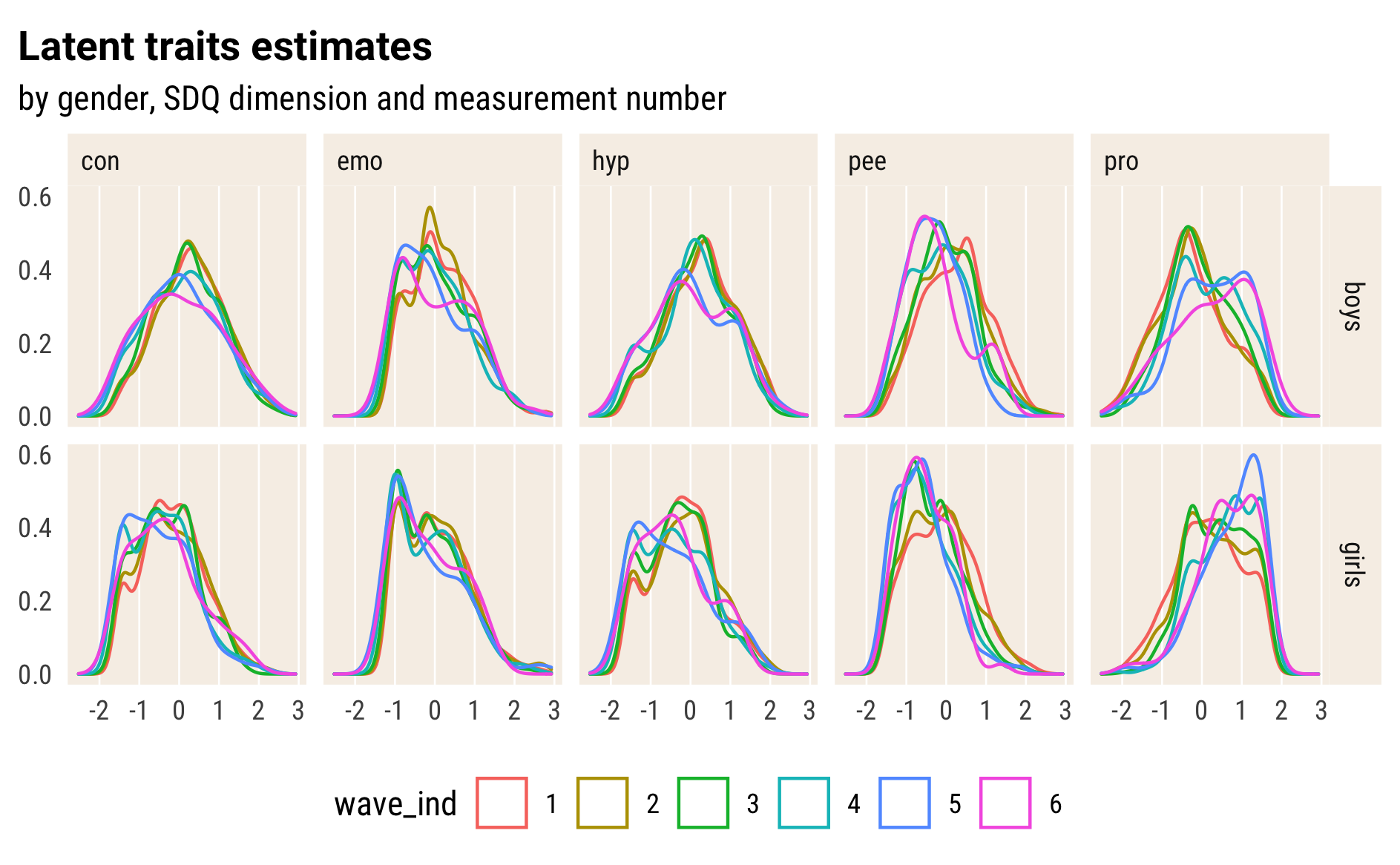
A great one, too

tým Schola Empirica

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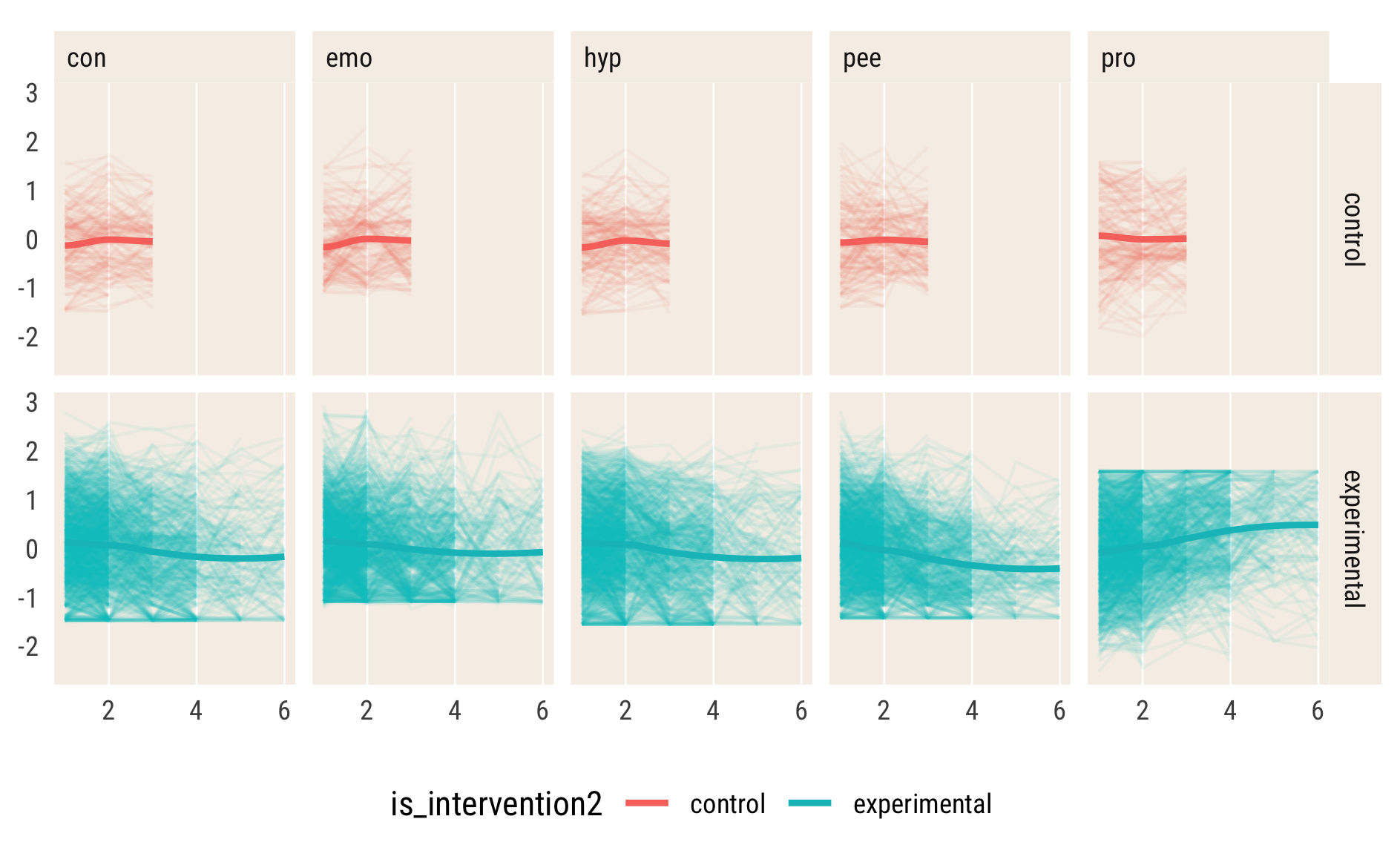
21. dubna 2020

Lorem ipsum abstract



Much better! For now on, we work with *theta* estimates.

CI is off because of dependent data.



Check measurements dependency

#> [[1]]  
#> rowname emo\_1 emo\_2 emo\_3 emo\_4 emo\_5 emo\_6  
#> 1 emo\_1 .52 .42 .46 .25 .36  
#> 2 emo\_2 .46 .43 .22 .32  
#> 3 emo\_3 .54 .18 .18  
#> 4 emo\_4 .30 .44  
#> 5 emo\_5 .49  
#> 6 emo\_6   
#>   
#> [[2]]  
#> rowname con\_1 con\_2 con\_3 con\_4 con\_5 con\_6  
#> 1 con\_1 .68 .56 .57 .60 .61  
#> 2 con\_2 .63 .63 .64 .48  
#> 3 con\_3 .76 .60 .58  
#> 4 con\_4 .62 .57  
#> 5 con\_5 .67  
#> 6 con\_6   
#>   
#> [[3]]  
#> rowname hyp\_1 hyp\_2 hyp\_3 hyp\_4 hyp\_5 hyp\_6  
#> 1 hyp\_1 .68 .58 .56 .52 .55  
#> 2 hyp\_2 .61 .61 .59 .49  
#> 3 hyp\_3 .76 .54 .55  
#> 4 hyp\_4 .60 .54  
#> 5 hyp\_5 .69  
#> 6 hyp\_6   
#>   
#> [[4]]  
#> rowname pee\_1 pee\_2 pee\_3 pee\_4 pee\_5 pee\_6  
#> 1 pee\_1 .58 .47 .53 .27 .44  
#> 2 pee\_2 .51 .52 .52 .55  
#> 3 pee\_3 .63 .33 .47  
#> 4 pee\_4 .45 .54  
#> 5 pee\_5 .56  
#> 6 pee\_6   
#>   
#> [[5]]  
#> rowname pro\_1 pro\_2 pro\_3 pro\_4 pro\_5 pro\_6  
#> 1 pro\_1 .66 .48 .48 .42 .46  
#> 2 pro\_2 .55 .53 .56 .49  
#> 3 pro\_3 .68 .50 .46  
#> 4 pro\_4 .57 .51  
#> 5 pro\_5 .67  
#> 6 pro\_6

null model

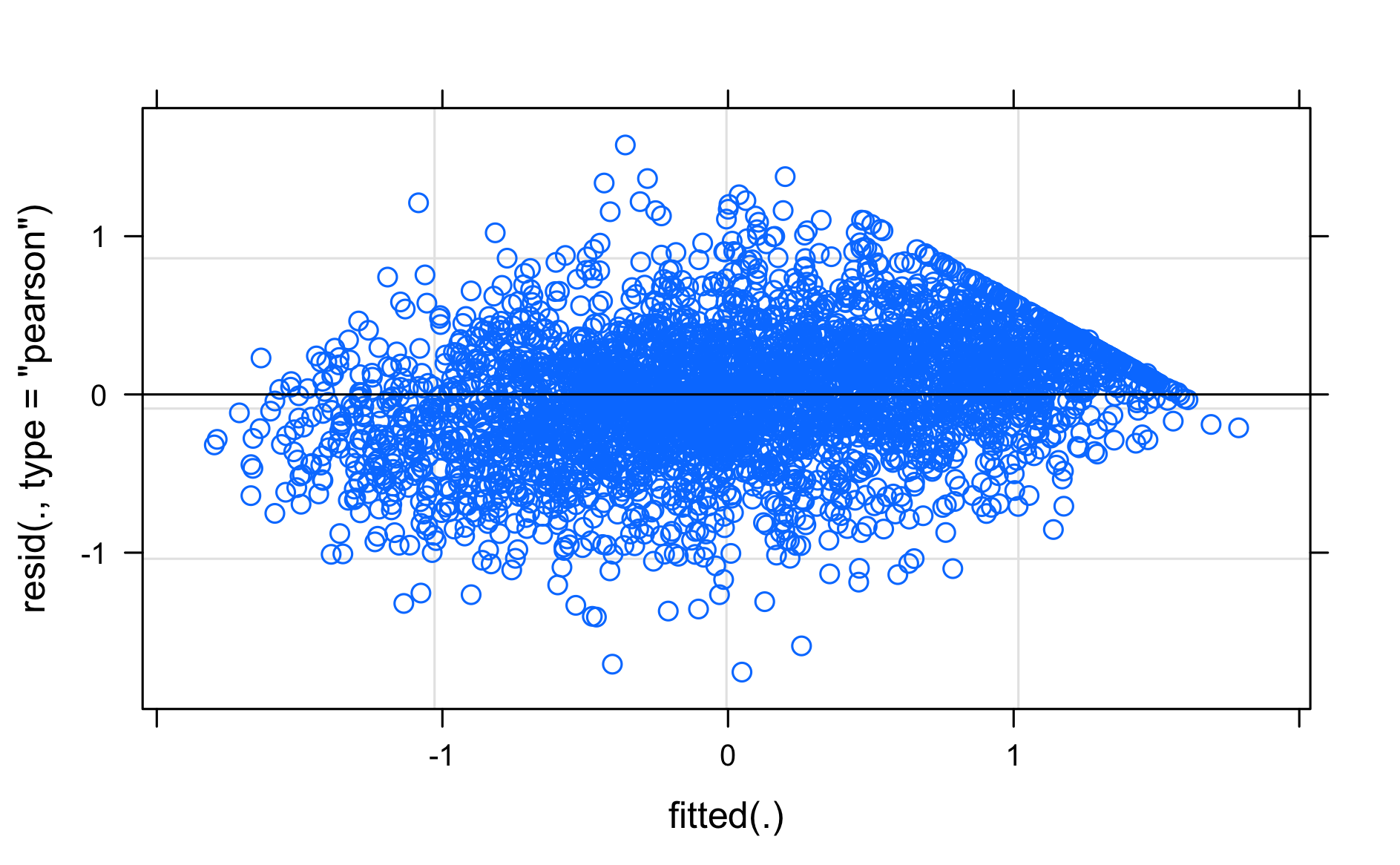
#> Linear mixed model fit by REML. t-tests use Satterthwaite's method [  
#> lmerModLmerTest]  
#> Formula: emo ~ (1 | id\_pupil)  
#> Data: df\_long\_zero  
#>   
#> REML criterion at convergence: 11620.1  
#>   
#> Scaled residuals:   
#> Min 1Q Median 3Q Max   
#> -3.3362 -0.6135 -0.0508 0.5567 3.3581   
#>   
#> Random effects:  
#> Groups Name Variance Std.Dev.  
#> id\_pupil (Intercept) 0.3078 0.5548   
#> Residual 0.3603 0.6003   
#> Number of obs: 5171, groups: id\_pupil, 2045  
#>   
#> Fixed effects:  
#> Estimate Std. Error df t value Pr(>|t|)   
#> (Intercept) 0.05184 0.01533 1930.25344 3.382 0.000733 \*\*\*  
#> ---  
#> Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

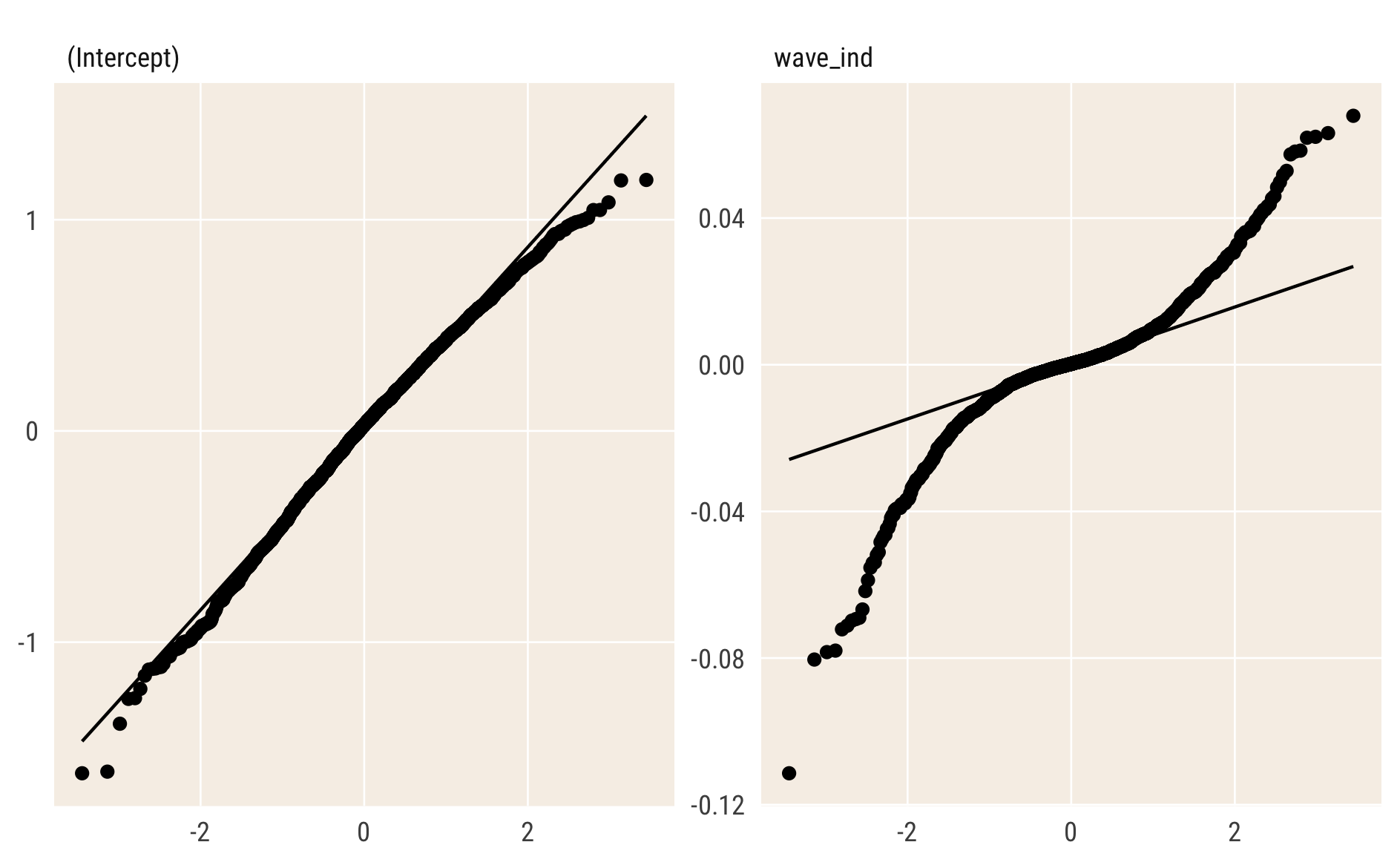
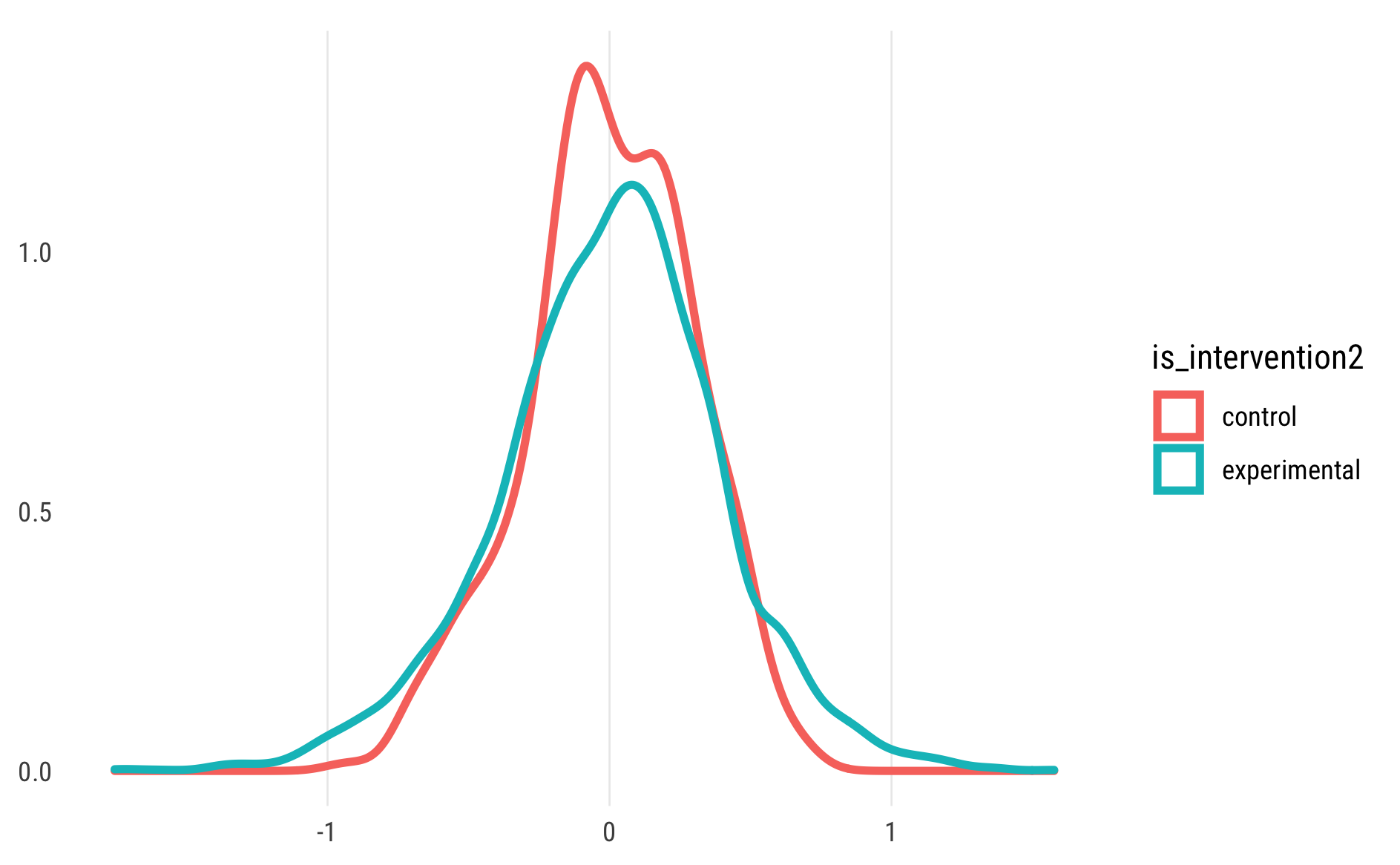
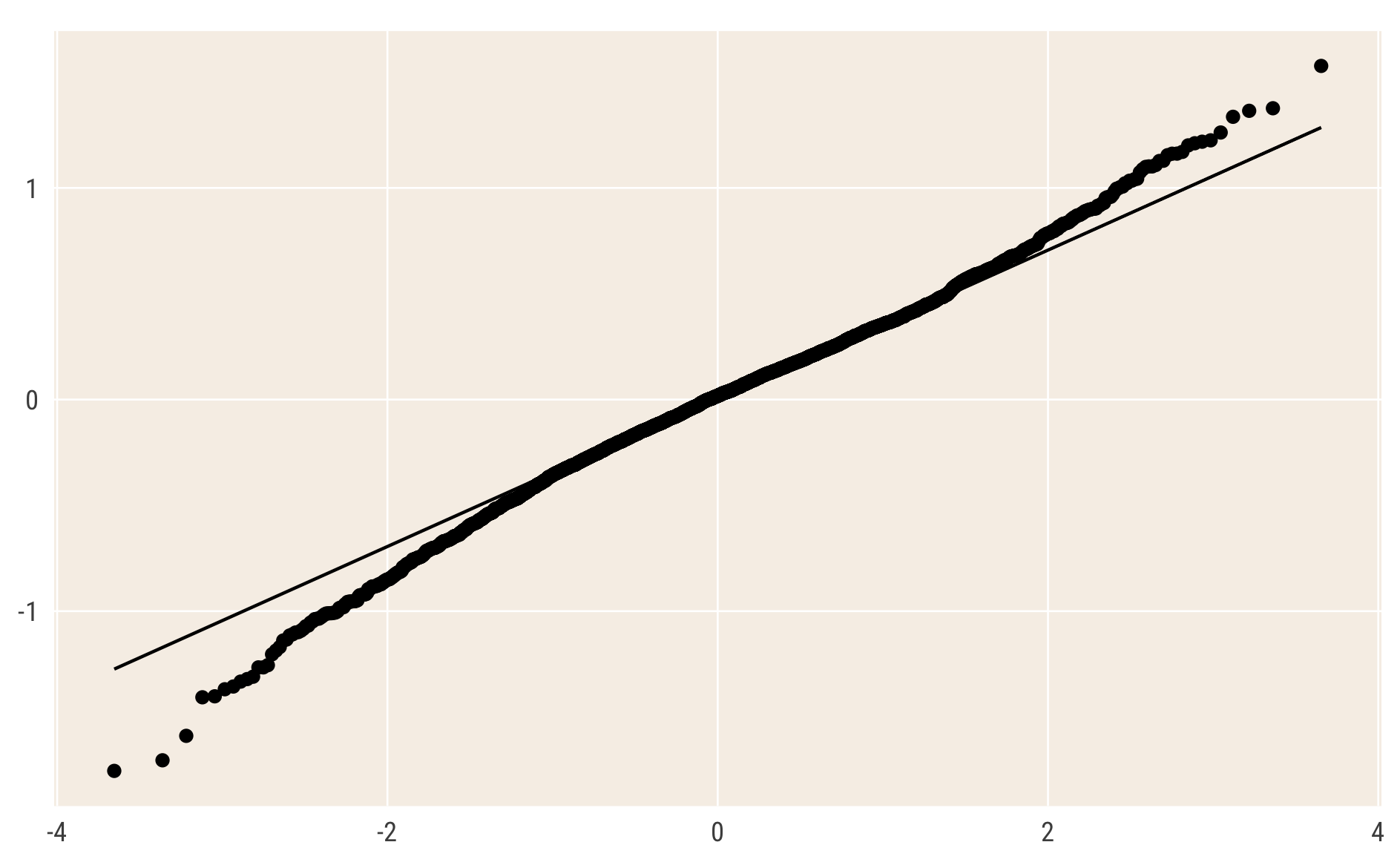
random intercept + slope

pupils are nested within classes

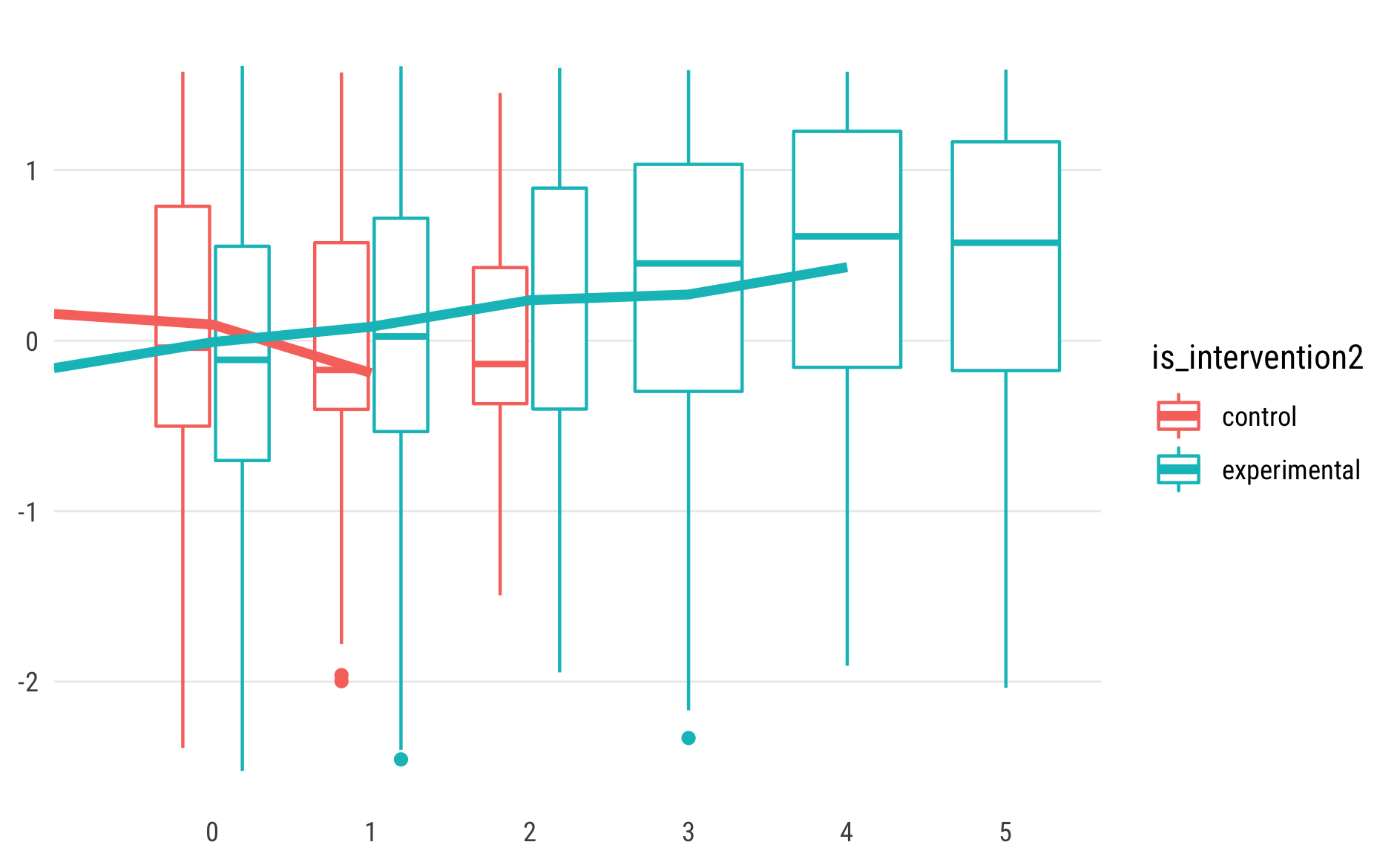
TODO: check id\_class

#> Linear mixed model fit by REML. t-tests use Satterthwaite's method [  
#> lmerModLmerTest]  
#> Formula: pro ~ wave\_ind \* is\_intervention2 + age\_fst\_measur + gender\_girl +   
#> (wave\_ind | id\_class/id\_pupil)  
#> Data: df\_long\_zero  
#>   
#> REML criterion at convergence: 7839.4  
#>   
#> Scaled residuals:   
#> Min 1Q Median 3Q Max   
#> -3.6559 -0.4795 0.0378 0.5048 3.2846   
#>   
#> Random effects:  
#> Groups Name Variance Std.Dev. Corr   
#> id\_pupil:id\_class (Intercept) 0.281589 0.53065   
#> wave\_ind 0.004993 0.07066 -0.04  
#> id\_class (Intercept) 0.159078 0.39885   
#> wave\_ind 0.026218 0.16192 -0.25  
#> Residual 0.230394 0.47999   
#> Number of obs: 3878, groups: id\_pupil:id\_class, 1771; id\_class, 50  
#>   
#> Fixed effects:  
#> Estimate Std. Error df t value  
#> (Intercept) -1.11772 0.14046 610.36731 -7.958  
#> wave\_ind -0.05693 0.07161 339.48098 -0.795  
#> is\_intervention2experimental -0.29508 0.08354 1487.25588 -3.532  
#> age\_fst\_measur 0.23656 0.01908 1709.49351 12.395  
#> gender\_girlgirls 0.50044 0.03086 1686.88205 16.218  
#> wave\_ind:is\_intervention2experimental 0.19658 0.06892 911.26985 2.852  
#> Pr(>|t|)   
#> (Intercept) 8.56e-15 \*\*\*  
#> wave\_ind 0.427179   
#> is\_intervention2experimental 0.000425 \*\*\*  
#> age\_fst\_measur < 2e-16 \*\*\*  
#> gender\_girlgirls < 2e-16 \*\*\*  
#> wave\_ind:is\_intervention2experimental 0.004440 \*\*   
#> ---  
#> Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
#>   
#> Correlation of Fixed Effects:  
#> (Intr) wav\_nd is\_nt2 ag\_fs\_ gndr\_g  
#> wave\_ind -0.309   
#> is\_ntrvntn2 -0.671 0.421   
#> age\_fst\_msr -0.690 0.018 0.165   
#> gndr\_grlgrl -0.159 0.004 0.044 0.042   
#> wv\_nd:s\_nt2 0.266 -0.919 -0.450 0.000 -0.006





Vizualizace modelu – průměry

 random effect for sample of 50 pupils

