Schola-styled Word document

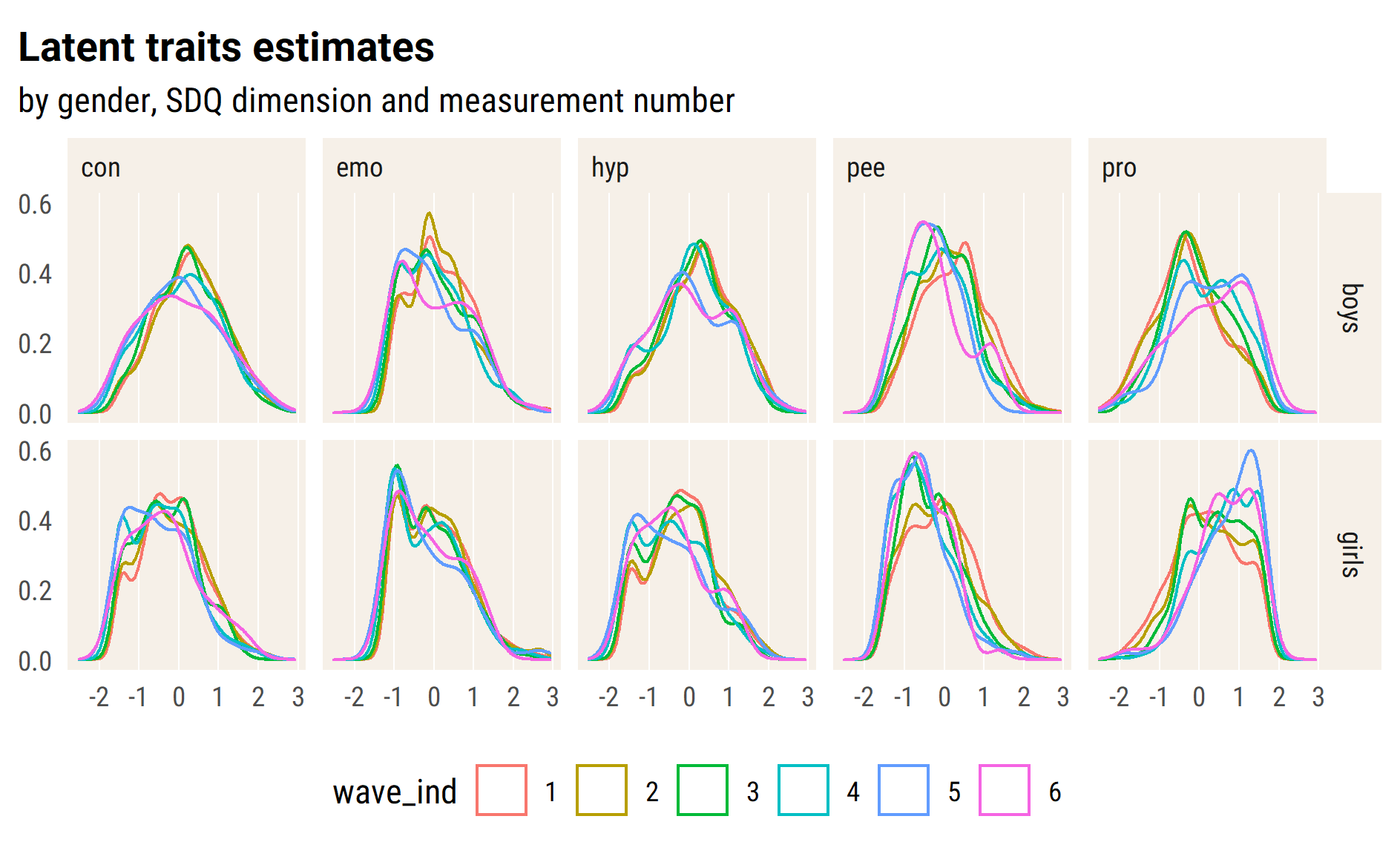
A great one, too

tým Schola Empirica

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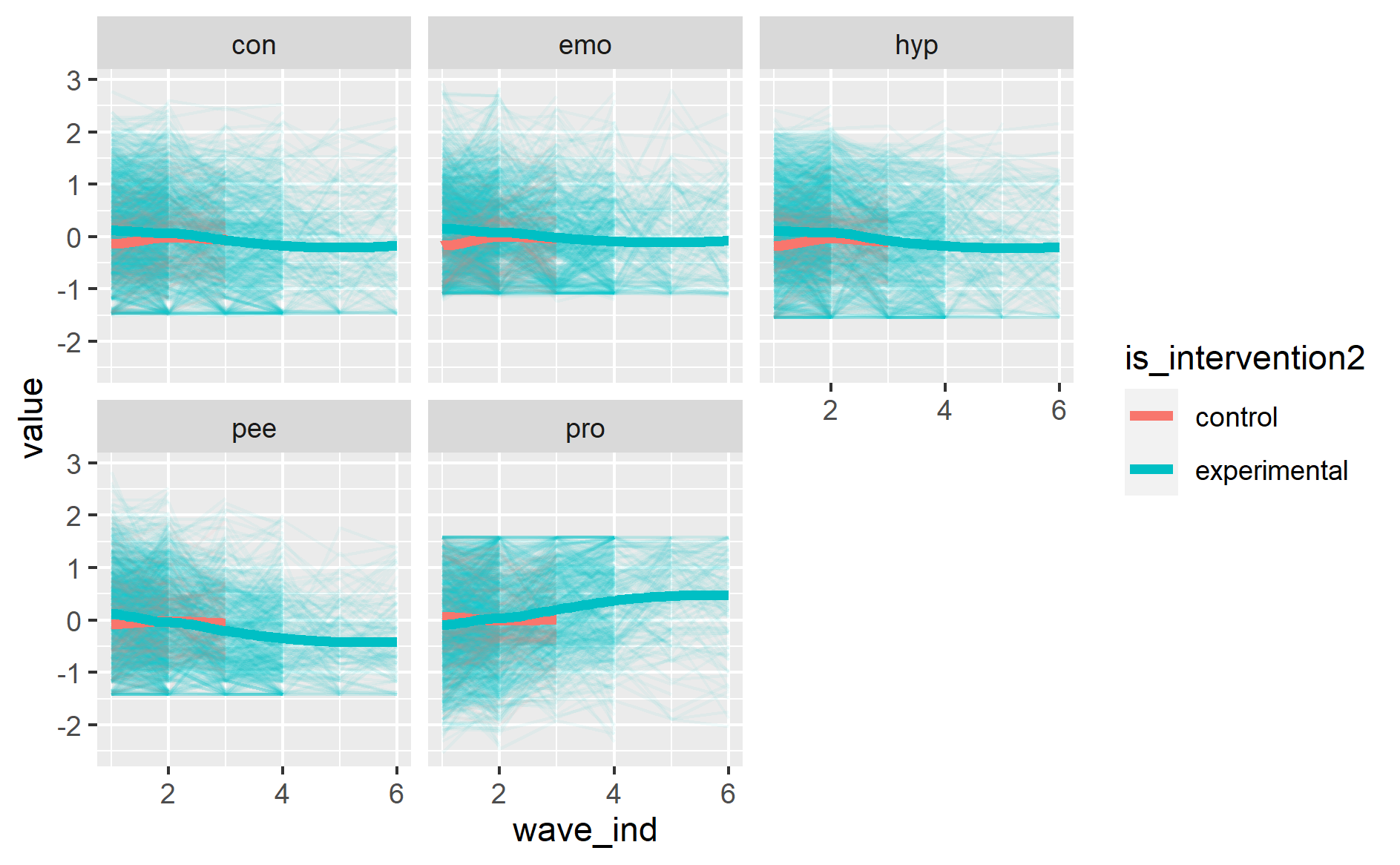
20. duben 2020

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

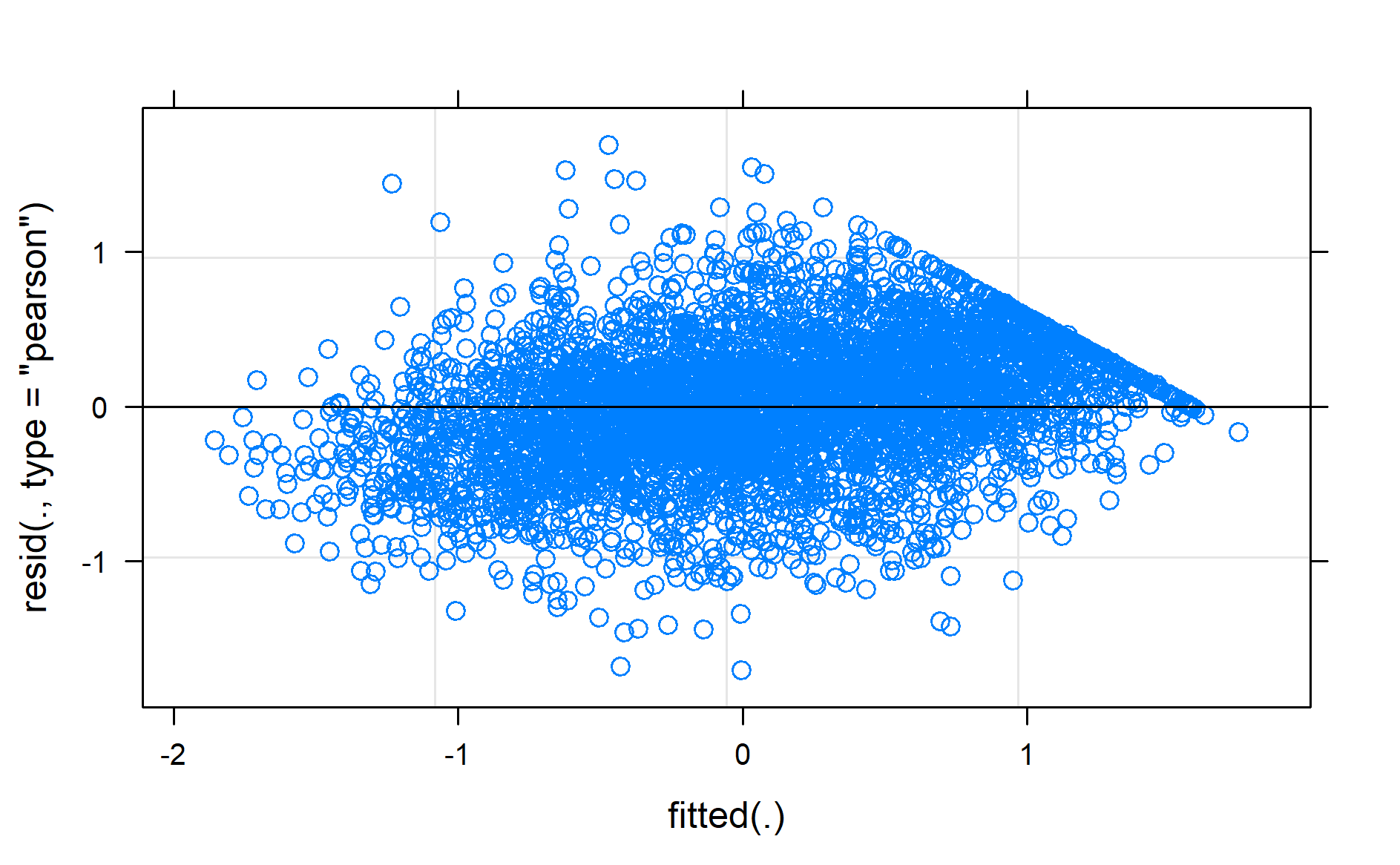
#> Linear mixed model fit by REML. t-tests use Satterthwaite's method ['lmerModLmerTest']  
#> Formula: emo ~ (1 | id\_pupil)  
#> Data: df\_long\_zero  
#>   
#> REML criterion at convergence: 11620.1  
#>   
#> Scaled residuals:   
#> Min 1Q Median 3Q Max   
#> -3.3362 -0.6135 -0.0508 0.5567 3.3581   
#>   
#> 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 1930.25345 3.382 0.000733 \*\*\*  
#> ---  
#> Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

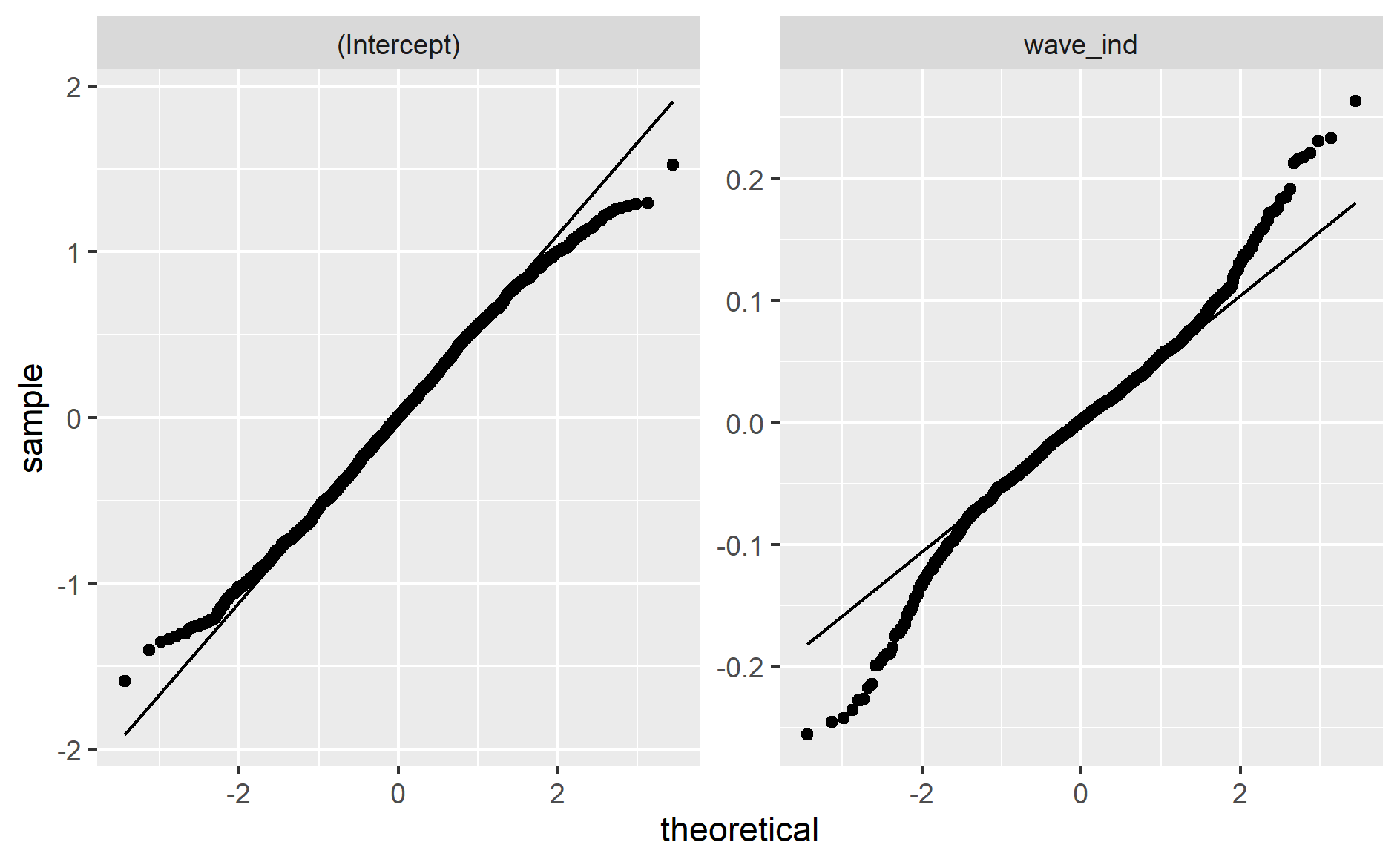
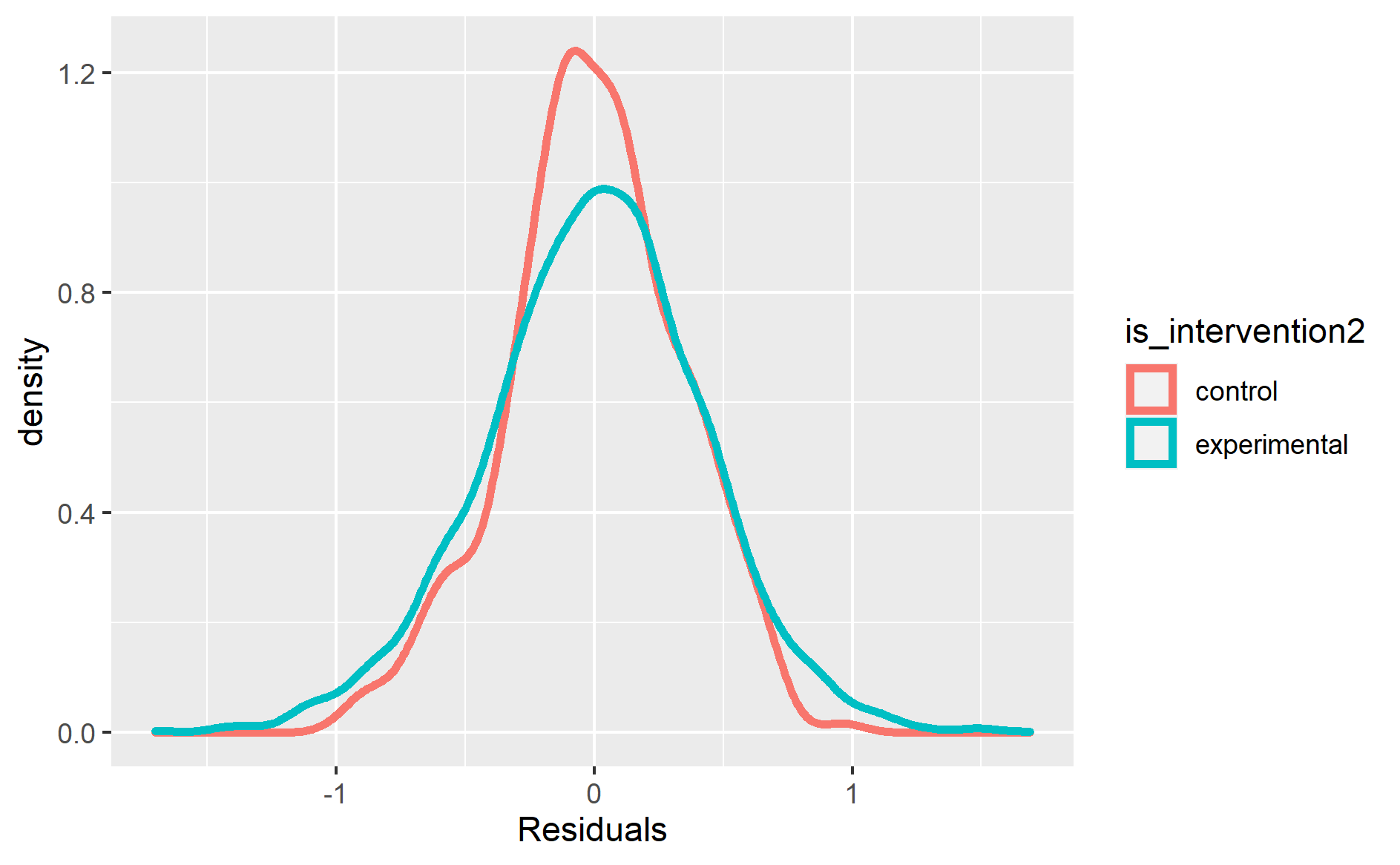
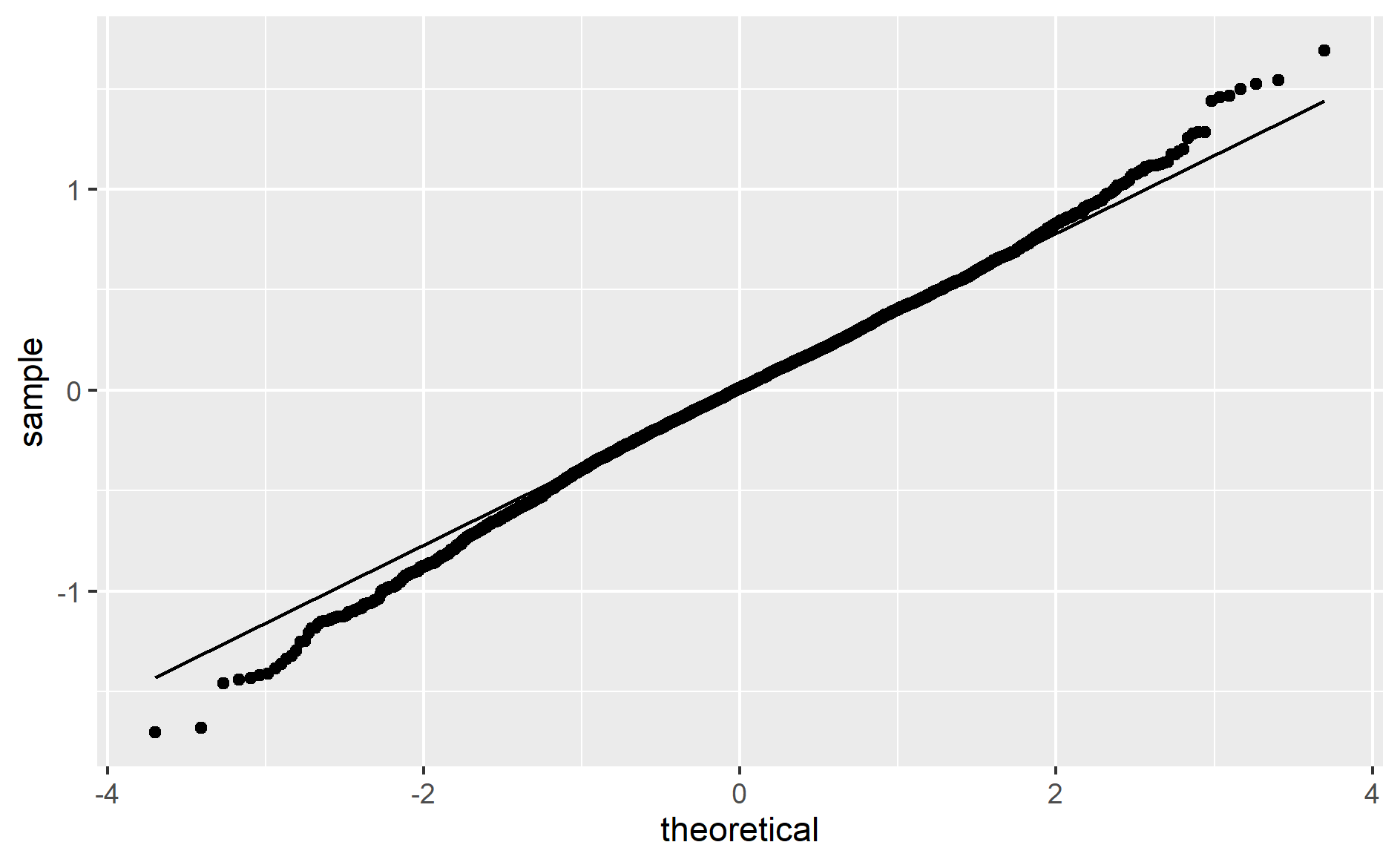
random intercept + slope

pupils are nested within classes

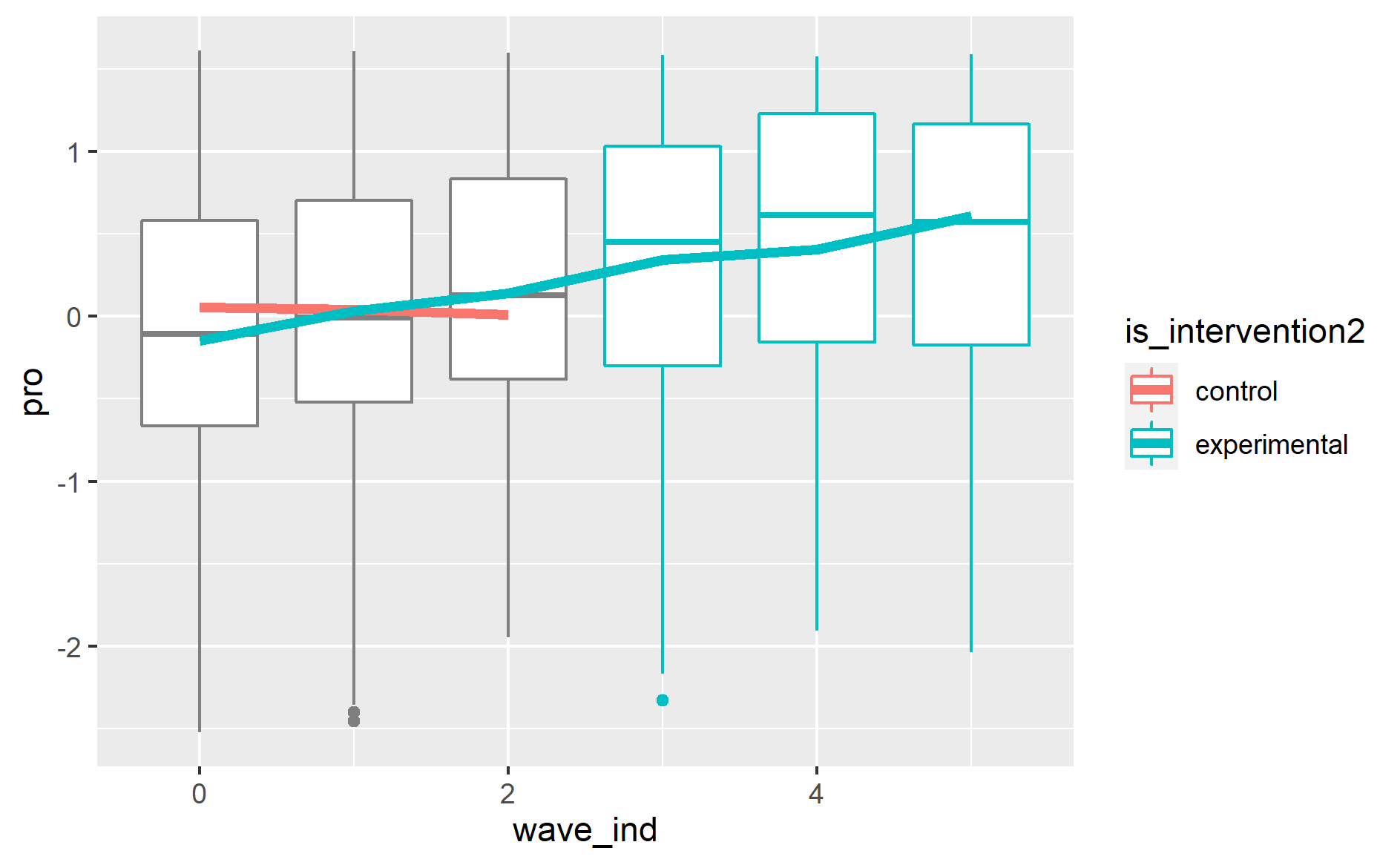
TODO: check id\_class

#> 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\_pupil)  
#> Data: df\_long\_zero  
#>   
#> REML criterion at convergence: 9638.4  
#>   
#> Scaled residuals:   
#> Min 1Q Median 3Q Max   
#> -3.3437 -0.5035 0.0191 0.5253 3.3180   
#>   
#> Random effects:  
#> Groups Name Variance Std.Dev. Corr   
#> id\_pupil (Intercept) 0.3873 0.6223   
#> wave\_ind 0.0214 0.1463 -0.34  
#> Residual 0.2592 0.5092   
#> Number of obs: 4562, groups: id\_pupil, 1738  
#>   
#> Fixed effects:  
#> Estimate Std. Error df t value Pr(>|t|)   
#> (Intercept) -1.13538 0.08865 1884.41200 -12.807 < 2e-16 \*\*\*  
#> wave\_ind 0.02615 0.03203 3040.12239 0.816 0.41430   
#> is\_intervention2experimental -0.14925 0.04700 1898.60213 -3.175 0.00152 \*\*   
#> age\_fst\_measur 0.20574 0.01656 1752.12435 12.425 < 2e-16 \*\*\*  
#> gender\_girlgirls 0.52653 0.03329 1663.88096 15.814 < 2e-16 \*\*\*  
#> wave\_ind:is\_intervention2experimental 0.14399 0.03327 2838.77281 4.328 0.0000156 \*\*\*  
#> ---  
#> 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 -0.240   
#> is\_ntrvntn2 -0.522 0.342   
#> age\_fst\_msr -0.864 0.079 0.121   
#> gndr\_grlgrl -0.206 -0.023 -0.021 0.034   
#> wv\_nd:s\_nt2 0.219 -0.962 -0.380 -0.062 0.023





Vizualizace modelu – průměry

 random effect for sample of 50 pupils

