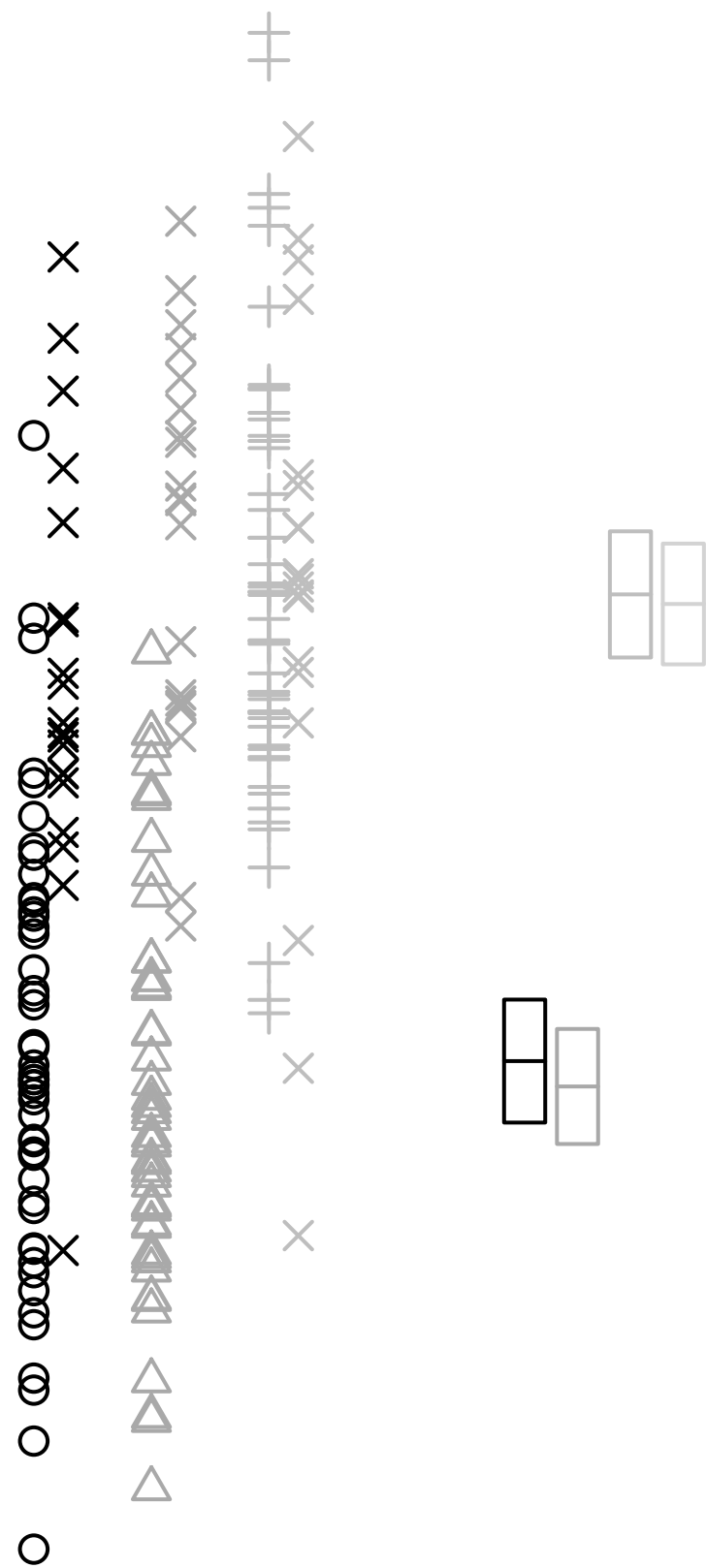
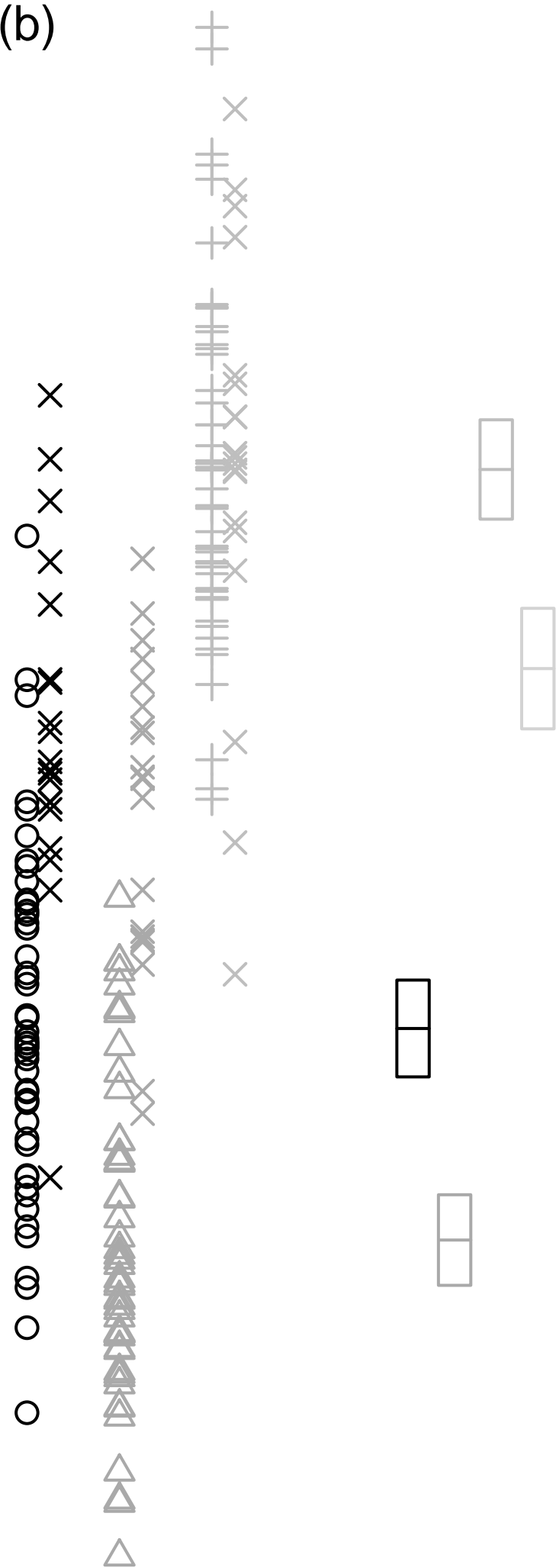


(a)



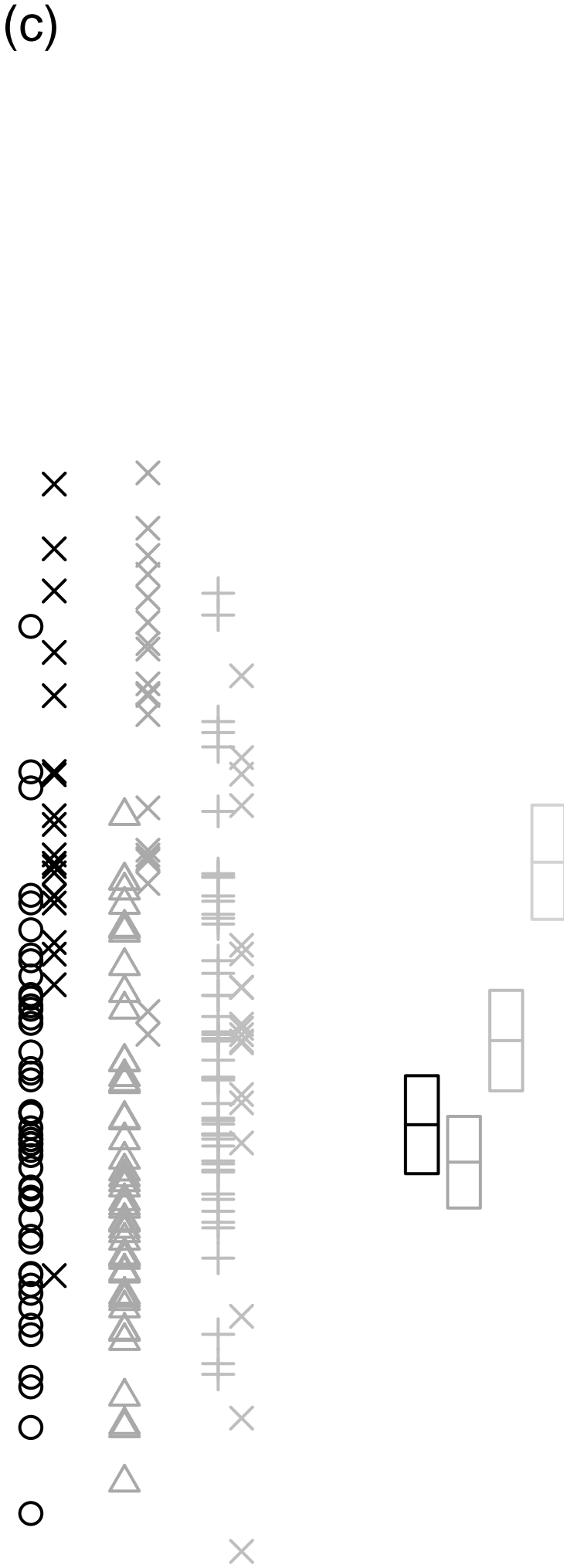
Without batch effects

(b)



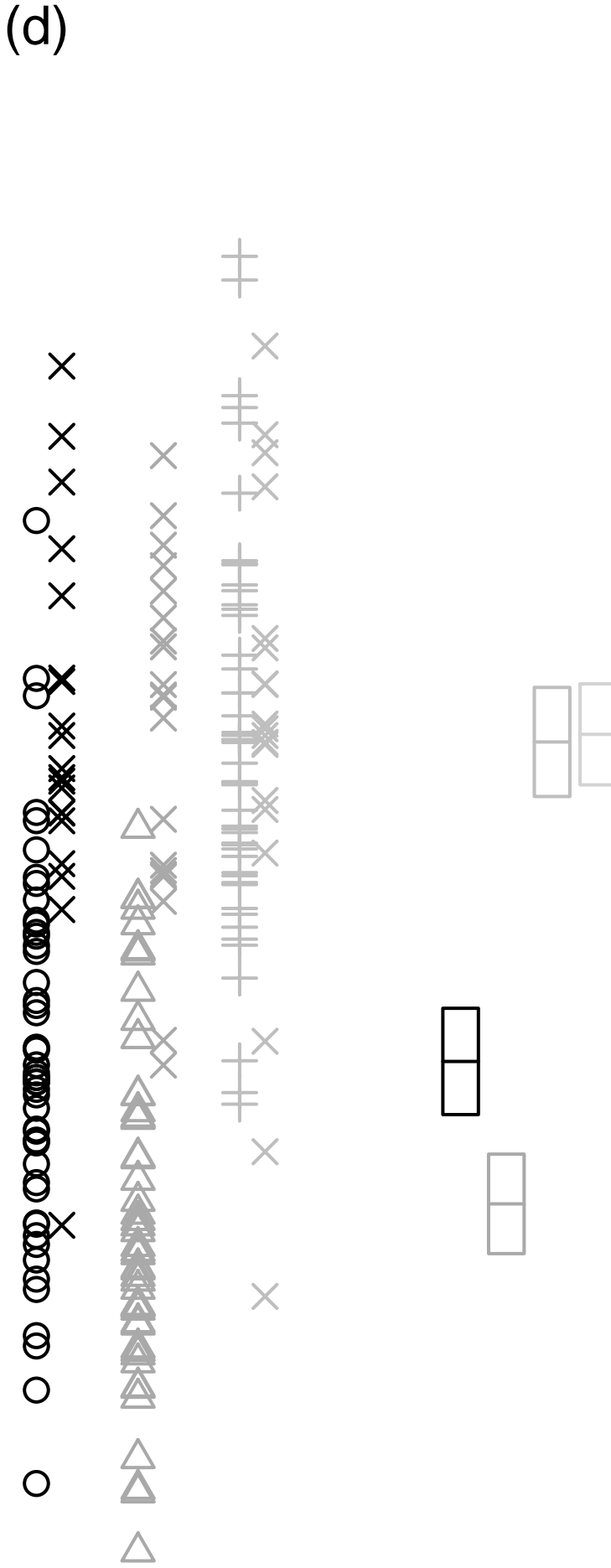
With batch effects added

(c)



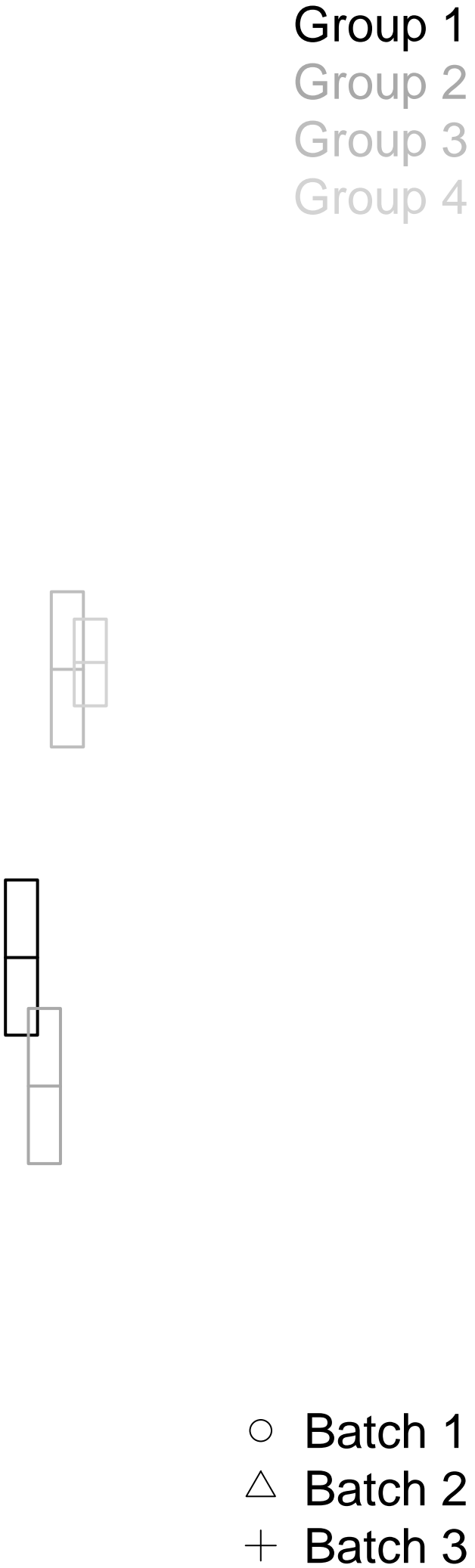
Zero-centered per batch

(d)



ANOVA centered values

(e)



ANOVA estimates

Group 1

Group 2

Group 3

Group 4

○ Batch 1

△ Batch 2

+ Batch 3