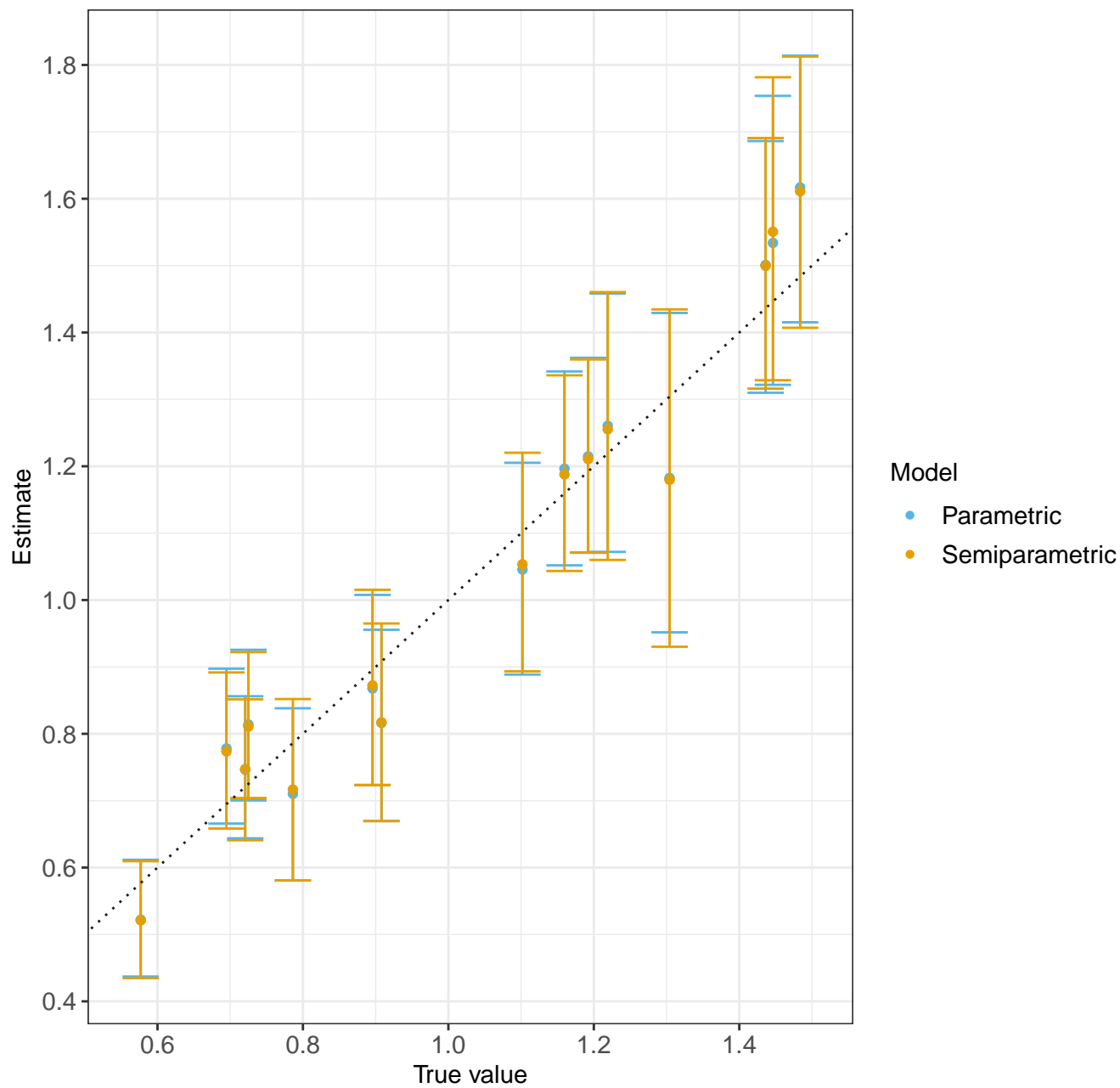
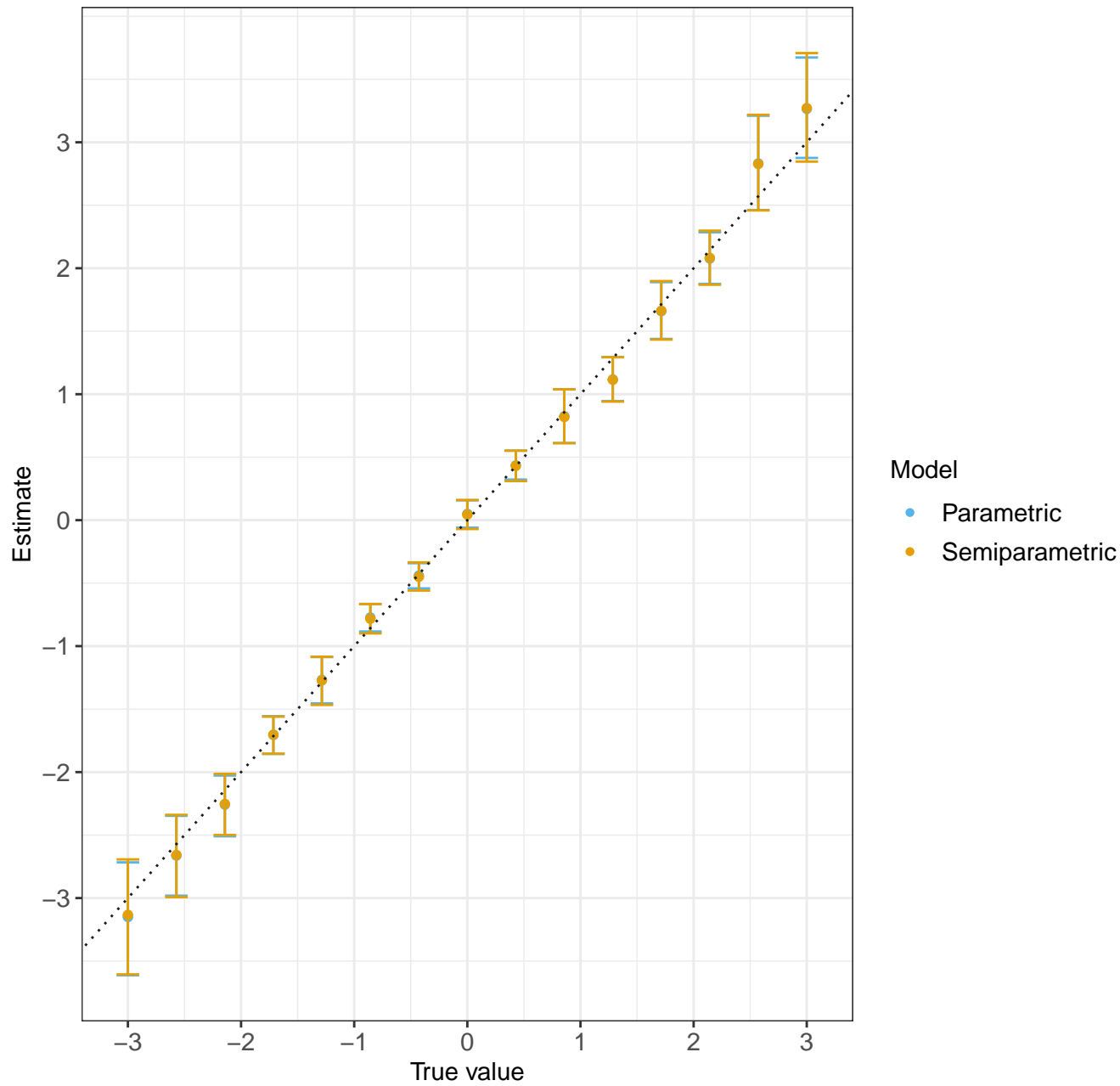


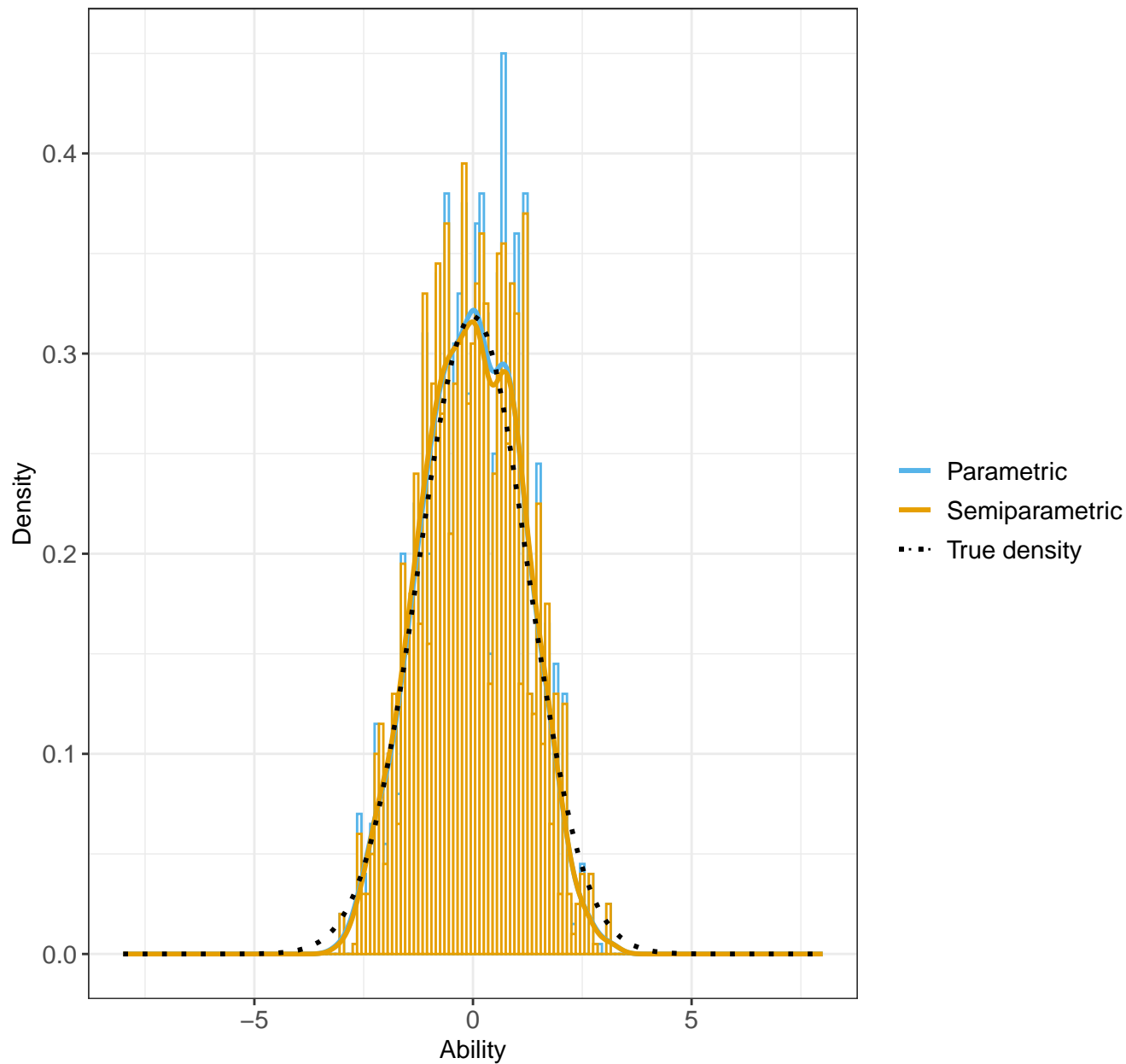
Discrimination parameters



Difficulty parameters

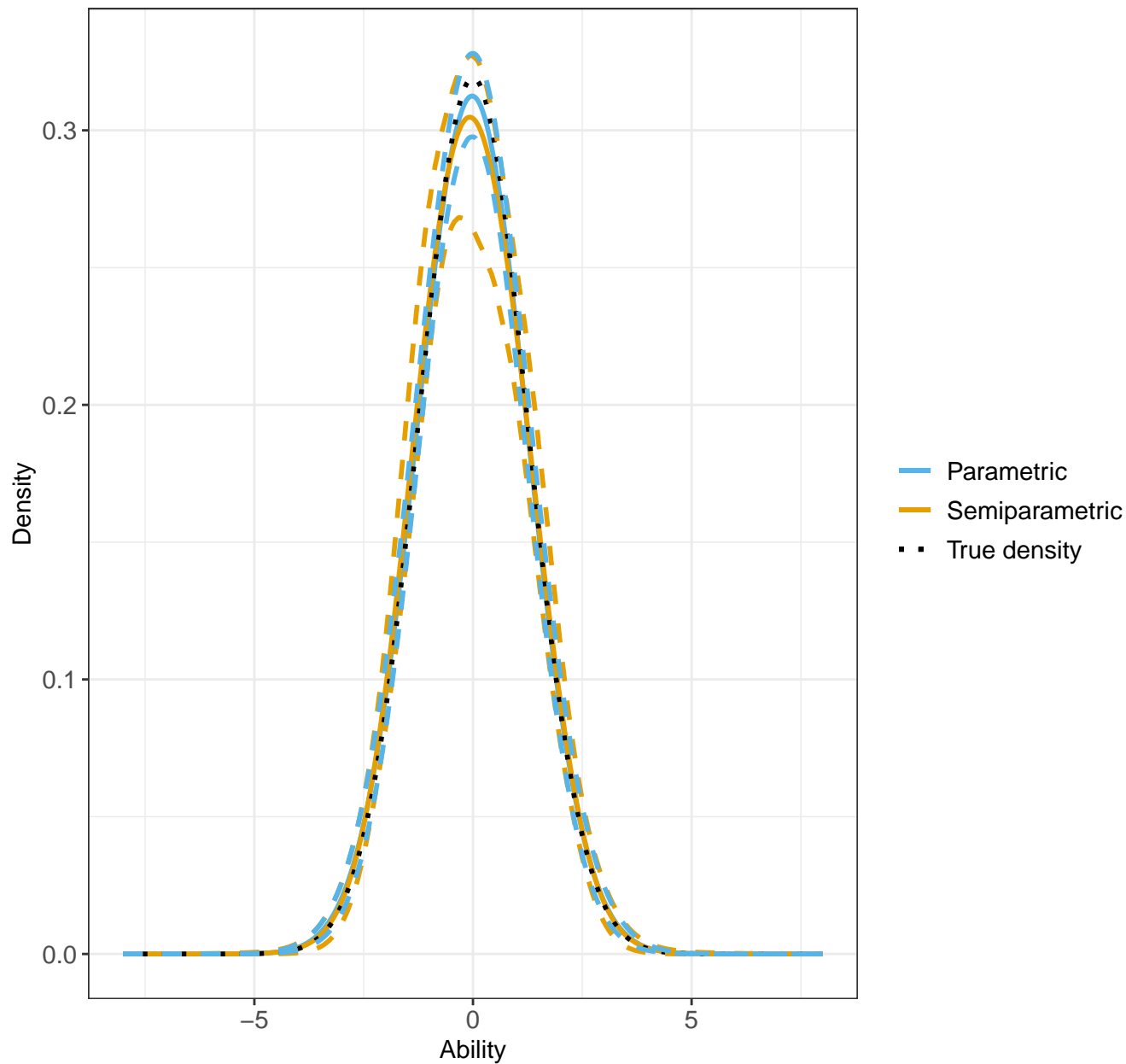


Unimodal simulation  
Distribution of individual posterior mean abilities

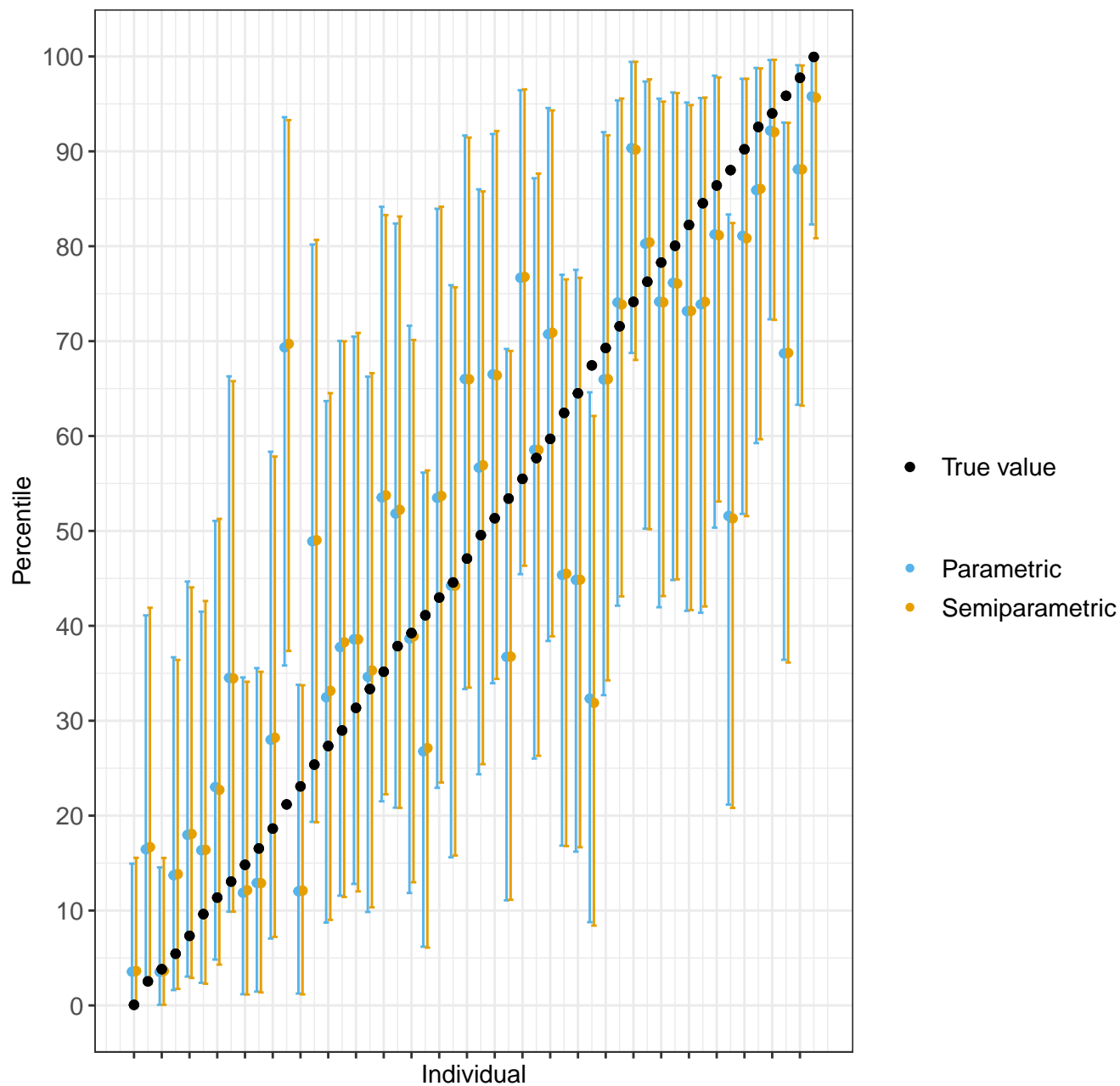


# Unimodal simulation

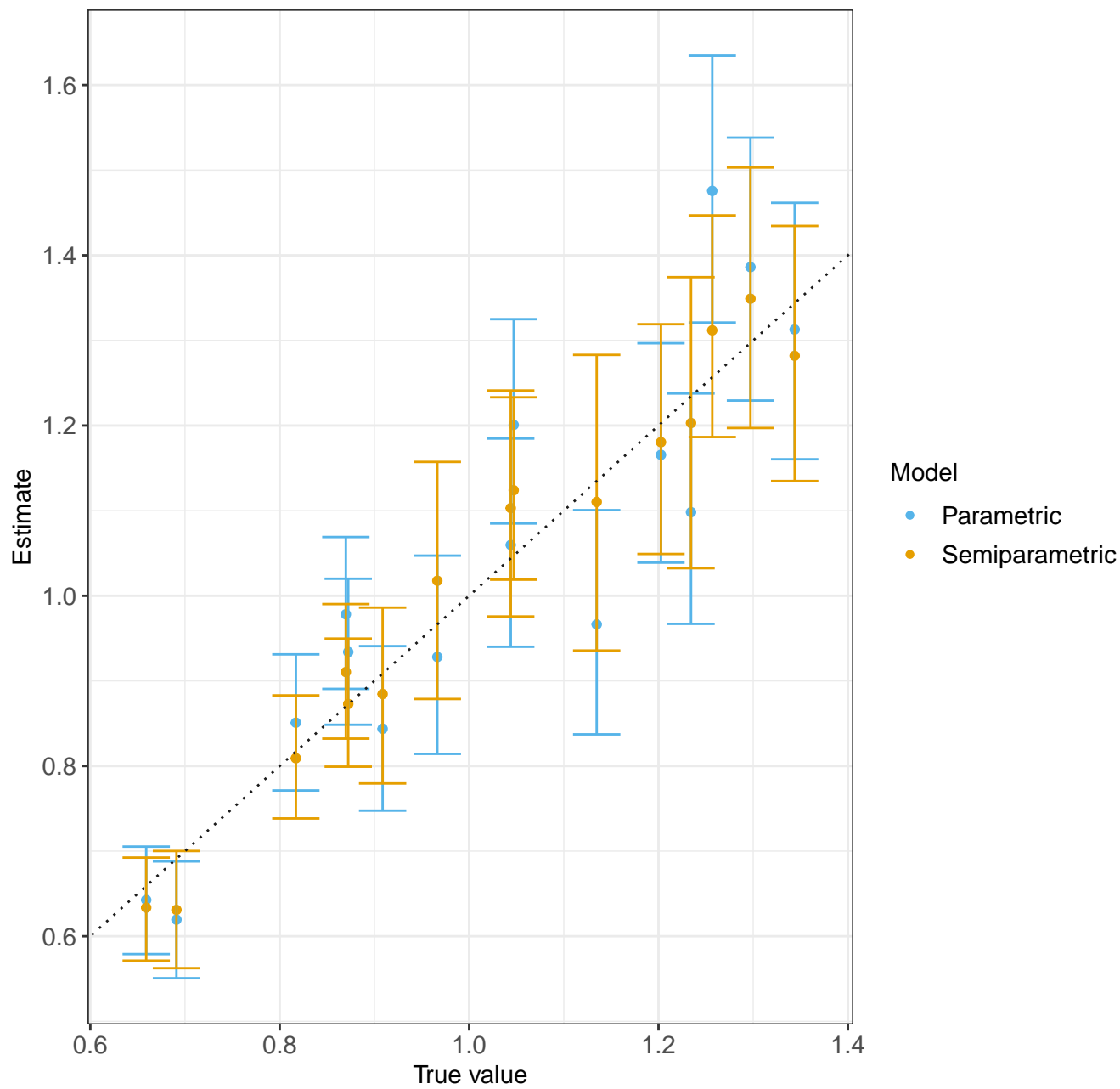
## Estimate of the distribution of ability



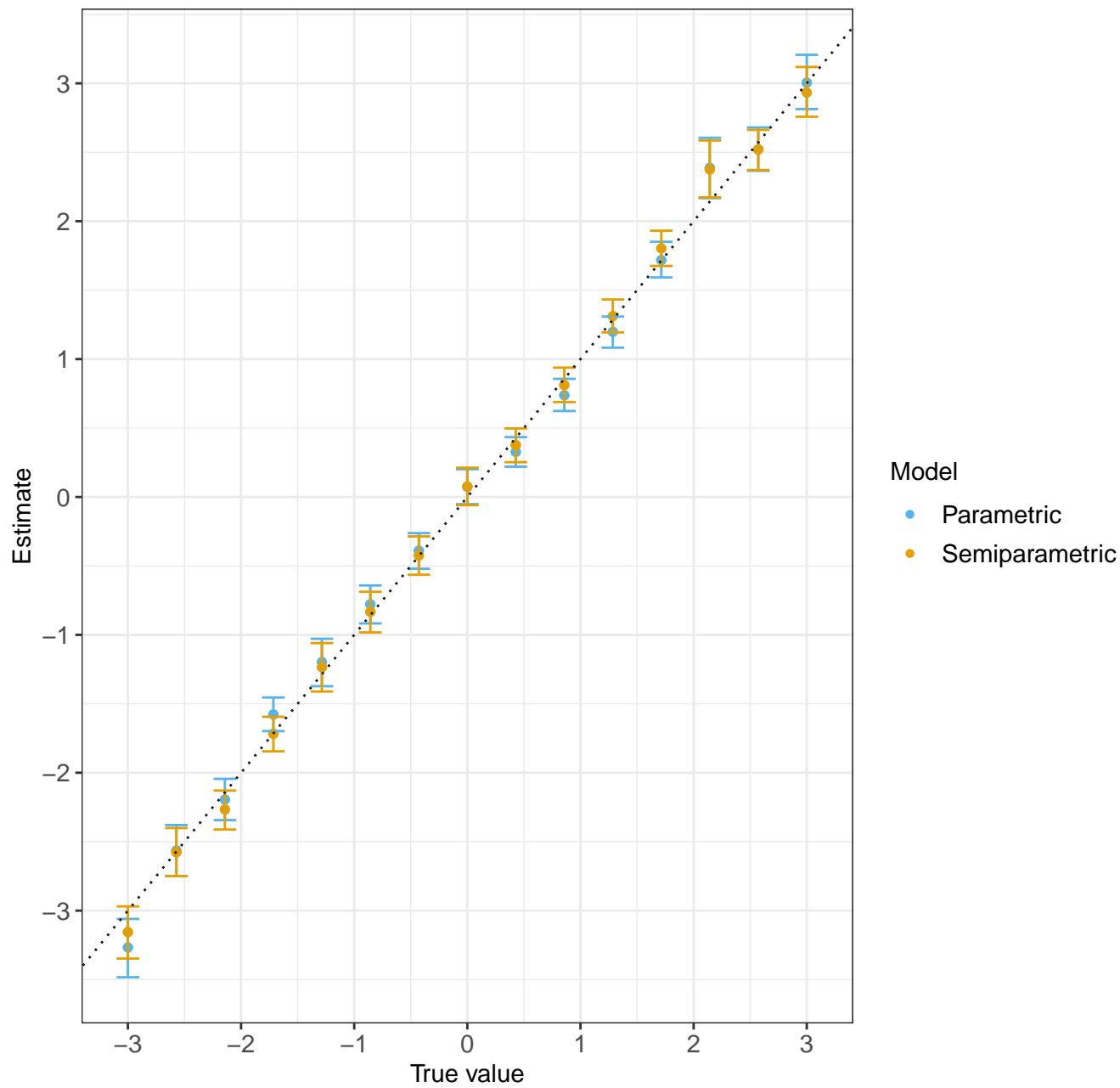
# Unimodal simulation



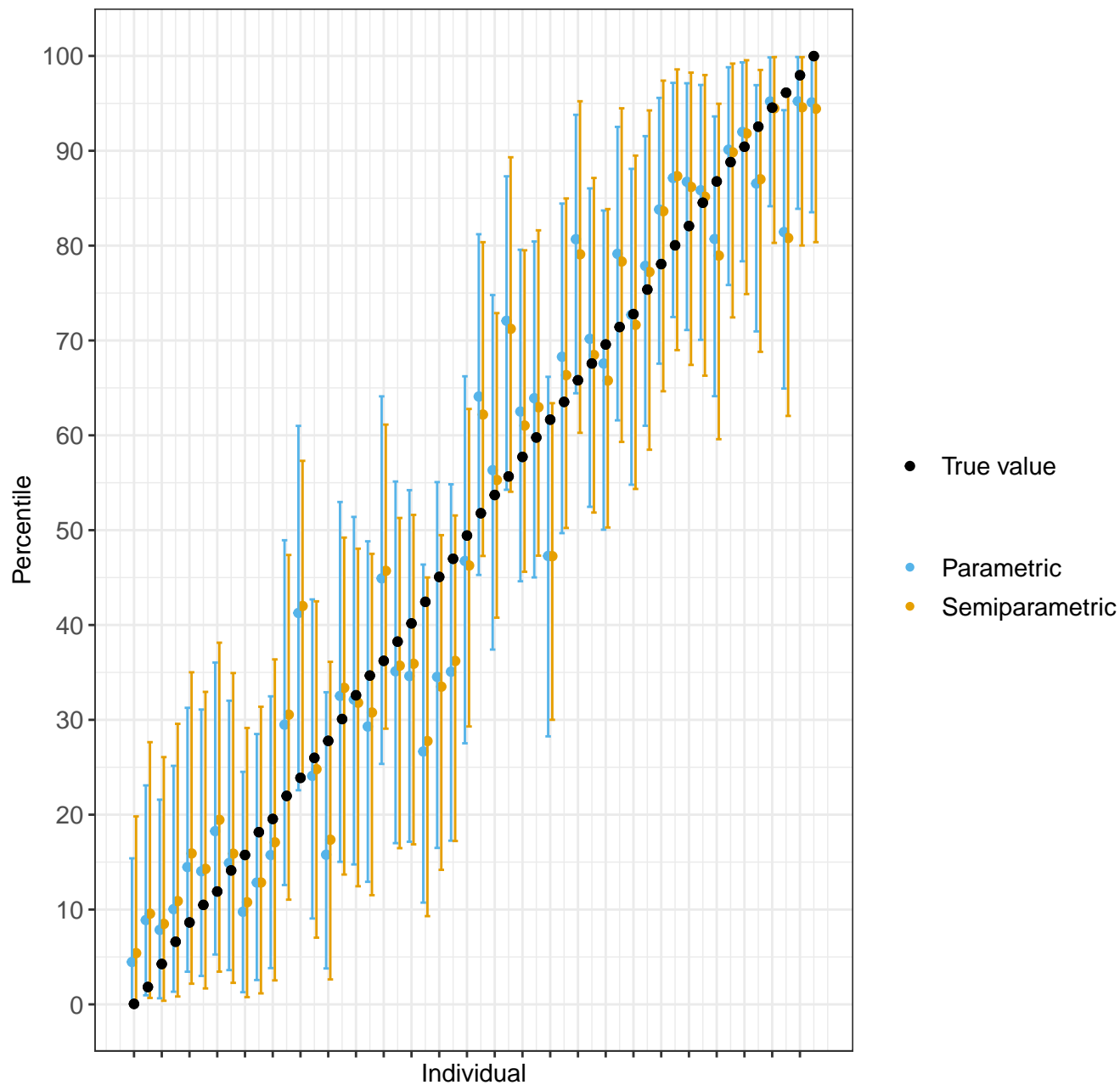
# Discrimination parameters



Difficulty parameters

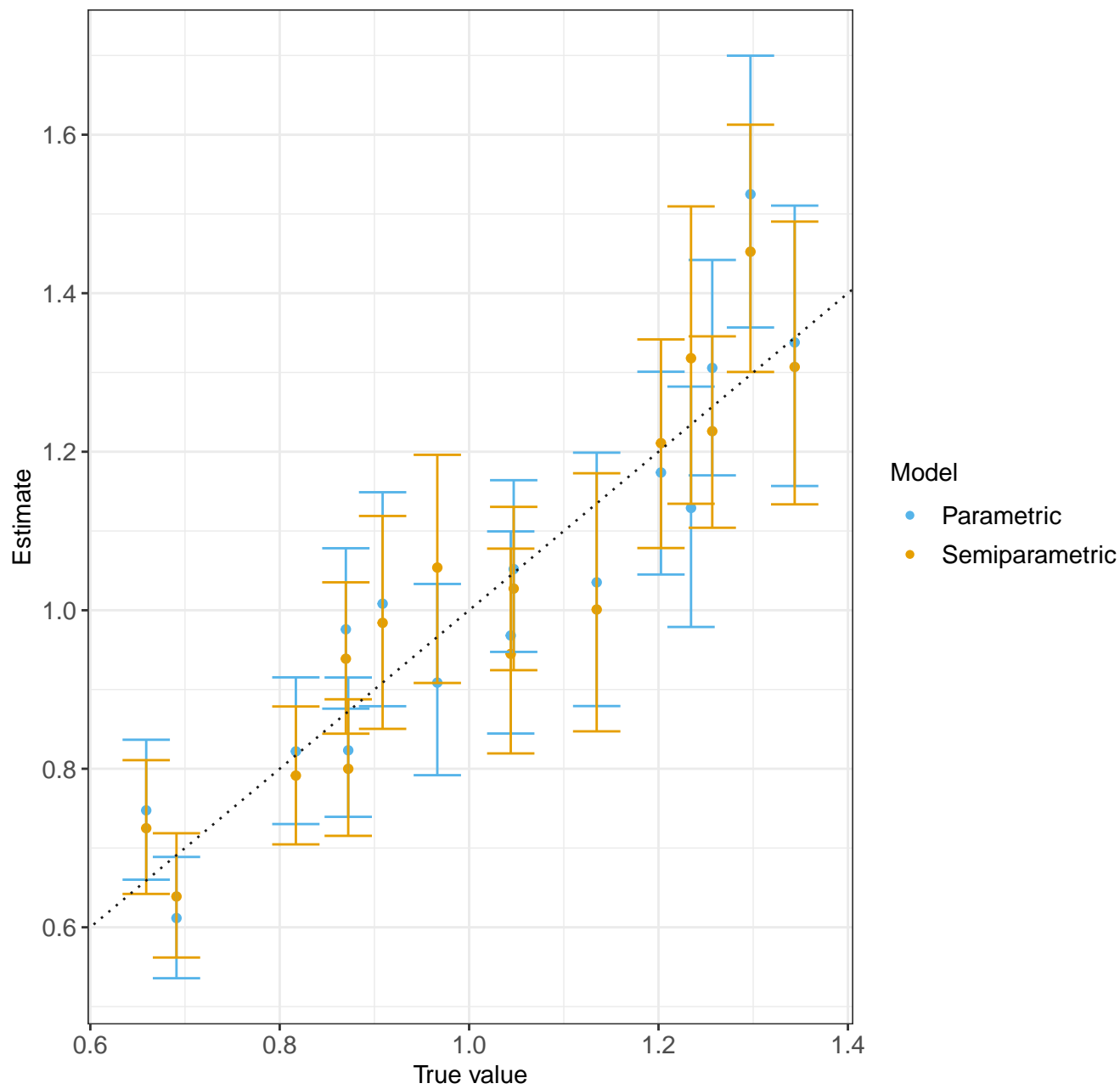


Bimodal simulation

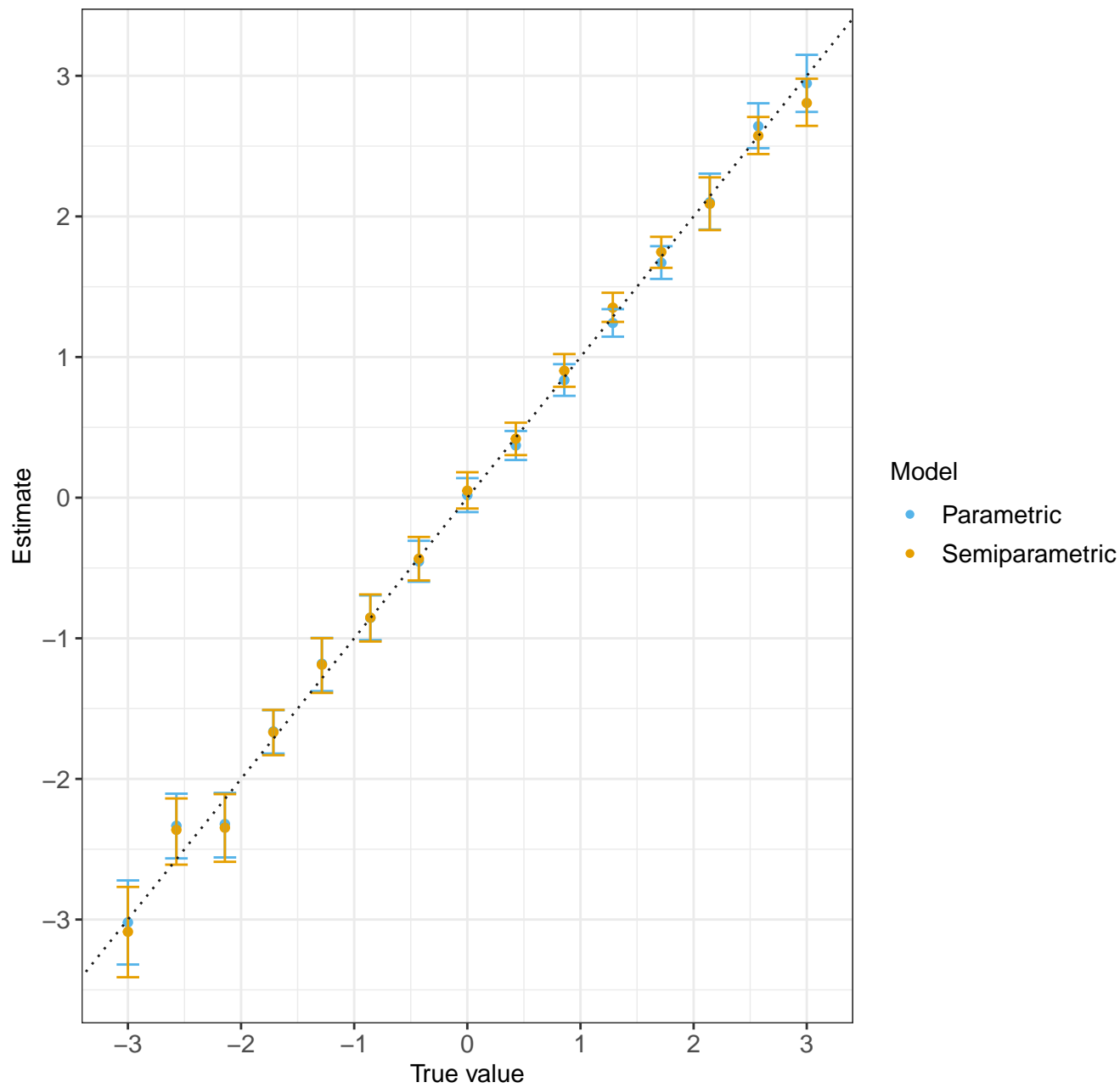




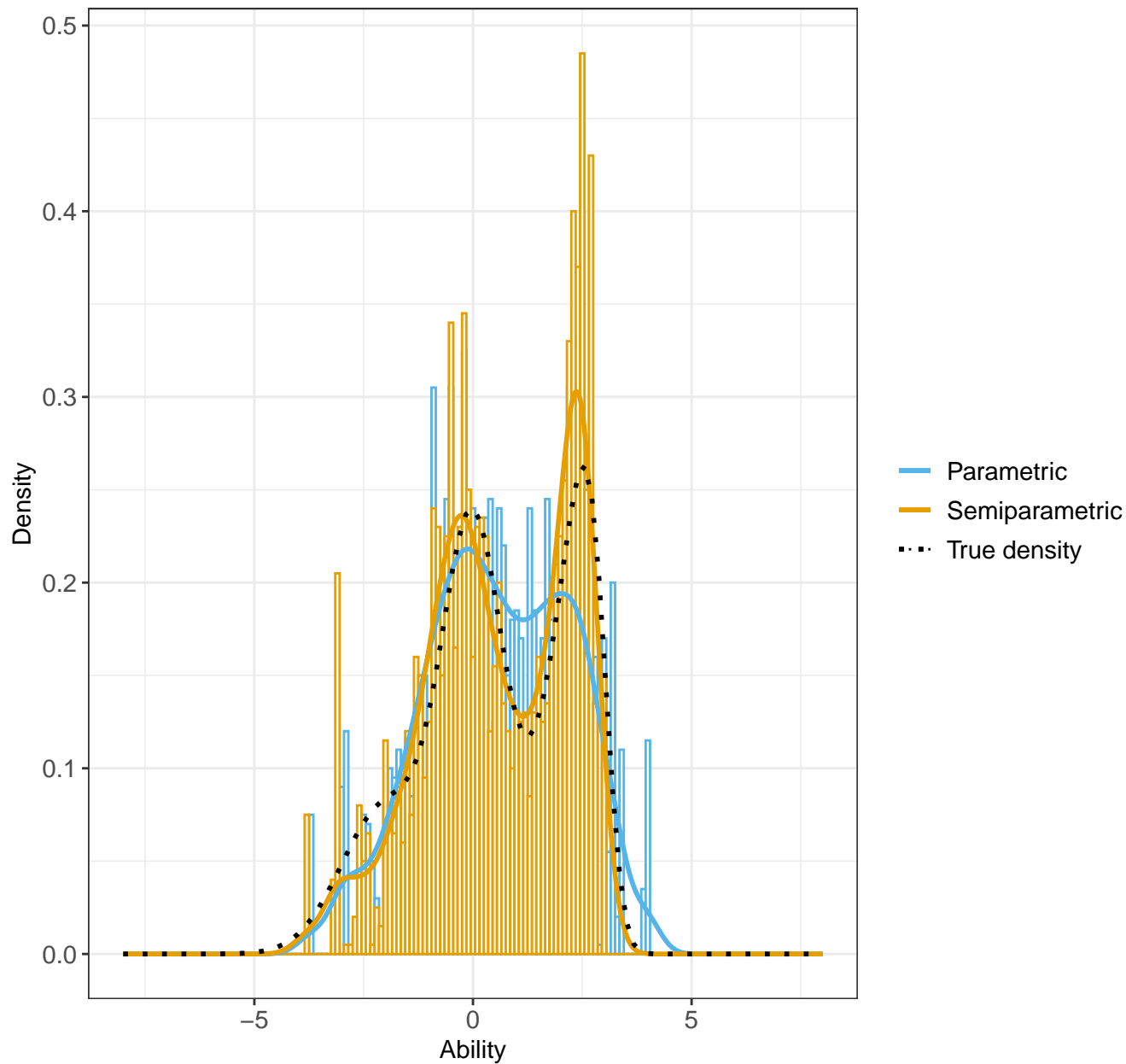
Discrimination parameters



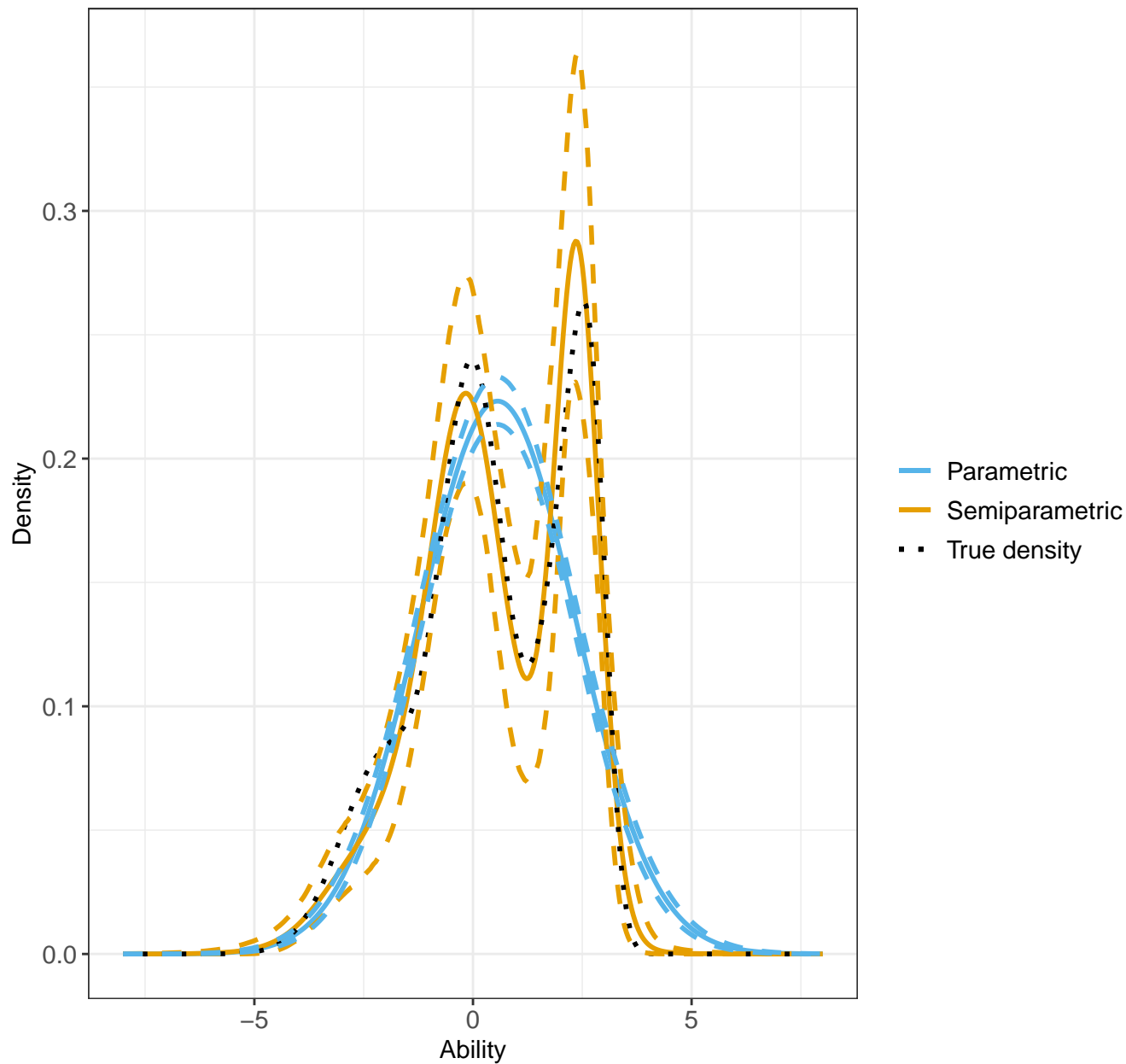
Difficulty parameters



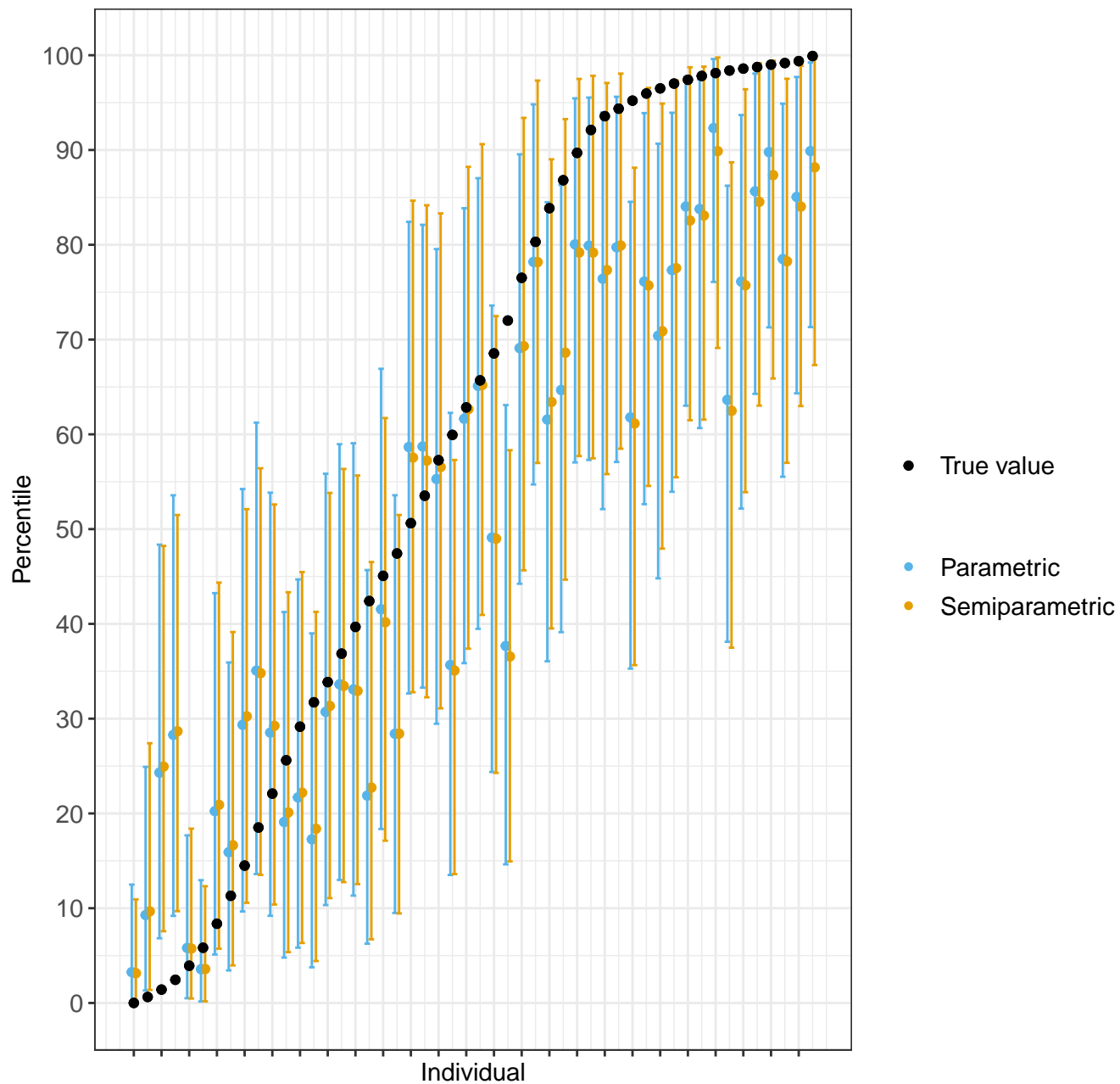
Multimodal simulation  
Distribution of individual posterior mean abilities



Multimodal simulation  
Estimate of the distribution of ability



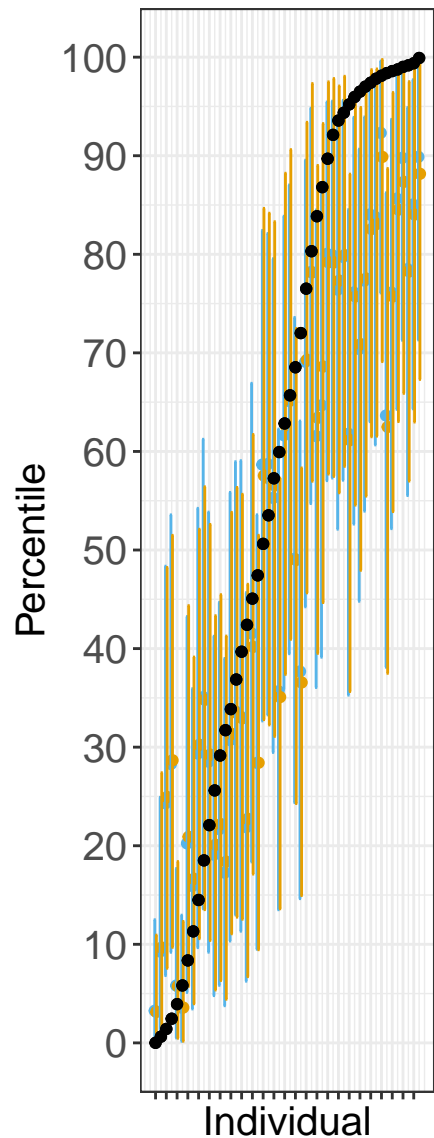
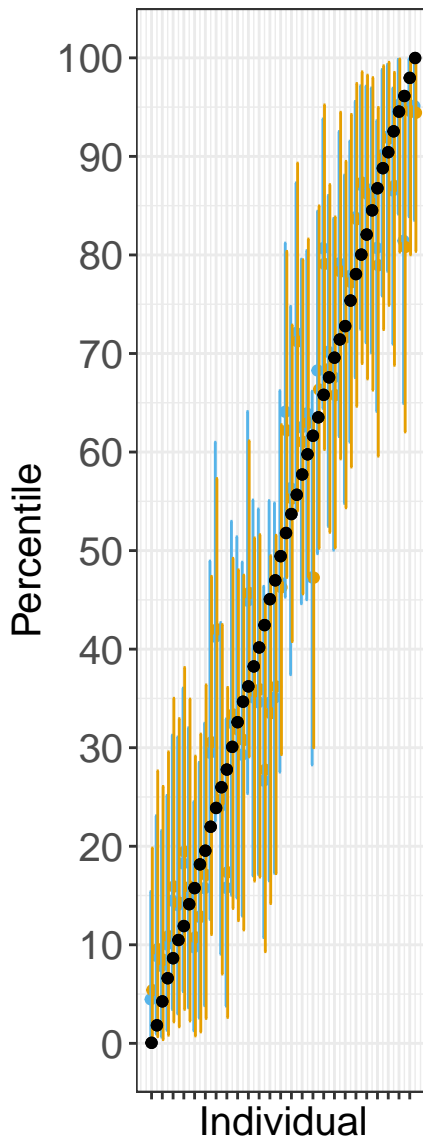
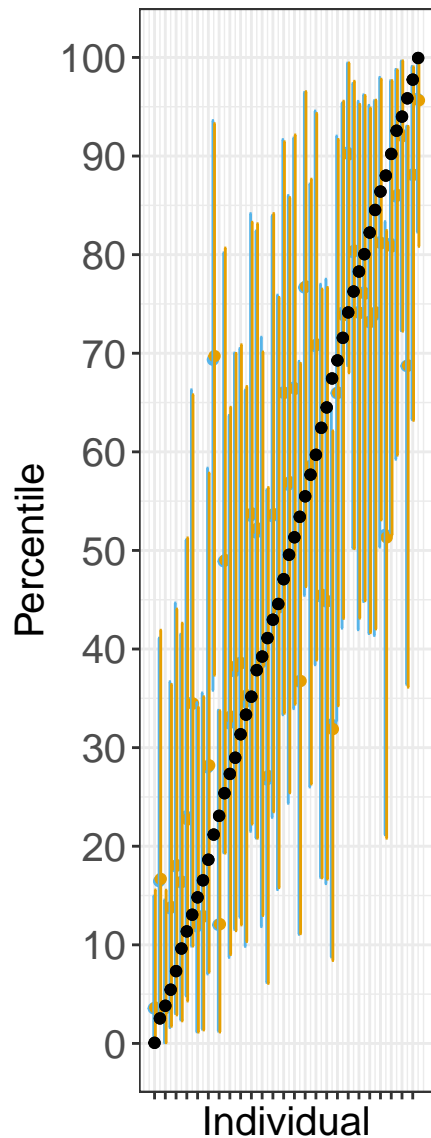
Multimodal simulation



Unimodal simul

Bimodal simul

Multimodal simul



• Parametric • Semiparametric • True value