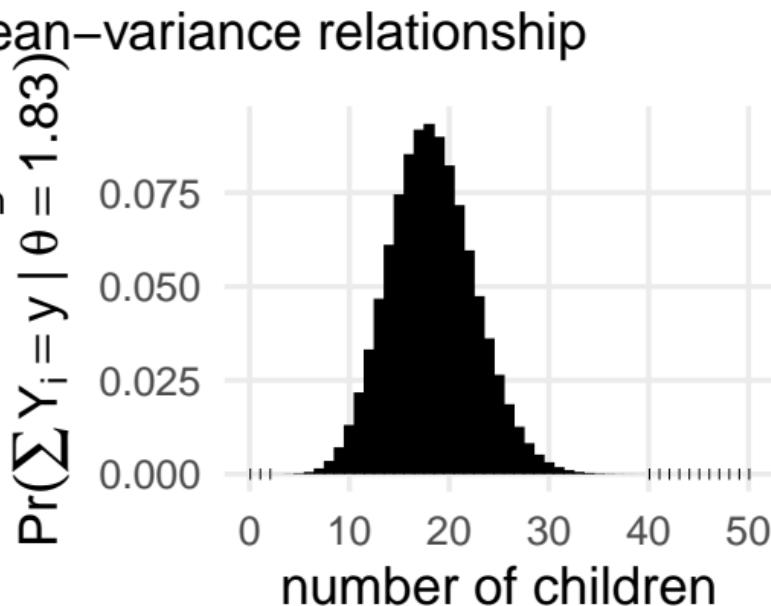
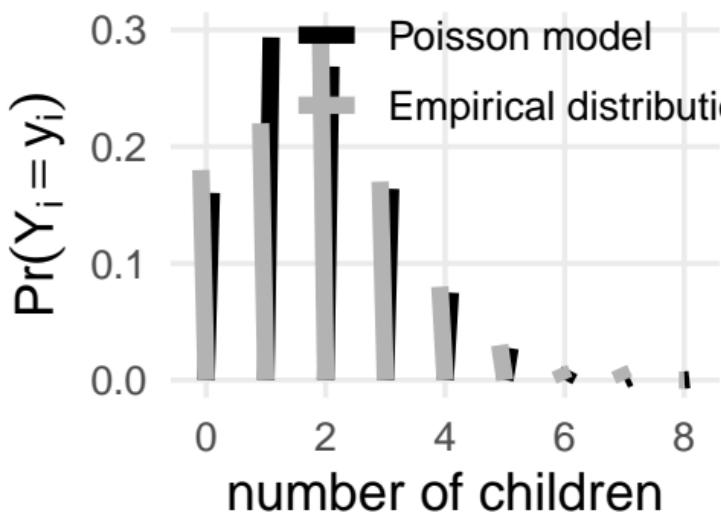


Poisson distributions and the mean–variance relationship



Left: Poisson pmf with mean $\theta = 1.83$ (black) overlaid with an empirical distribution (grey)

Right: Distribution of the sum of 10 i.i.d. Poisson(1.83) variables; by additivity this is Pois

The increased spread illustrates the Poisson mean–variance relationship: larger means