Figures for ‘Detecting’ Manuscript

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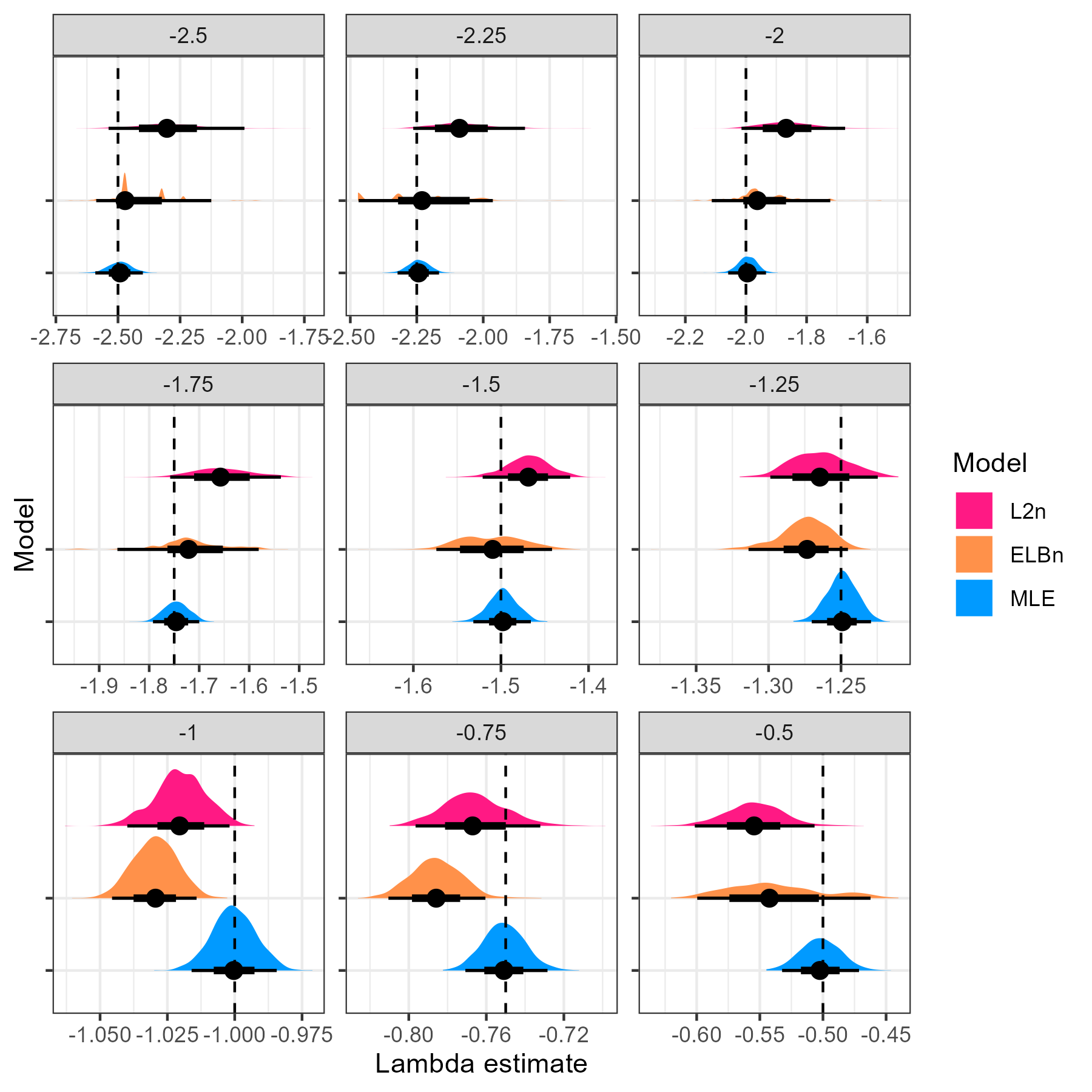


Figure 1. Distribution of Lambda estimates by method (color) from random samples of body sizes from bounded power law distributions with varying exponents (-2.5 to -0.5). The figure is facetted by the known lambda parameter (facet title) and is also shown as the dashed line in each facet. Note that the x-axis varies in each facet.

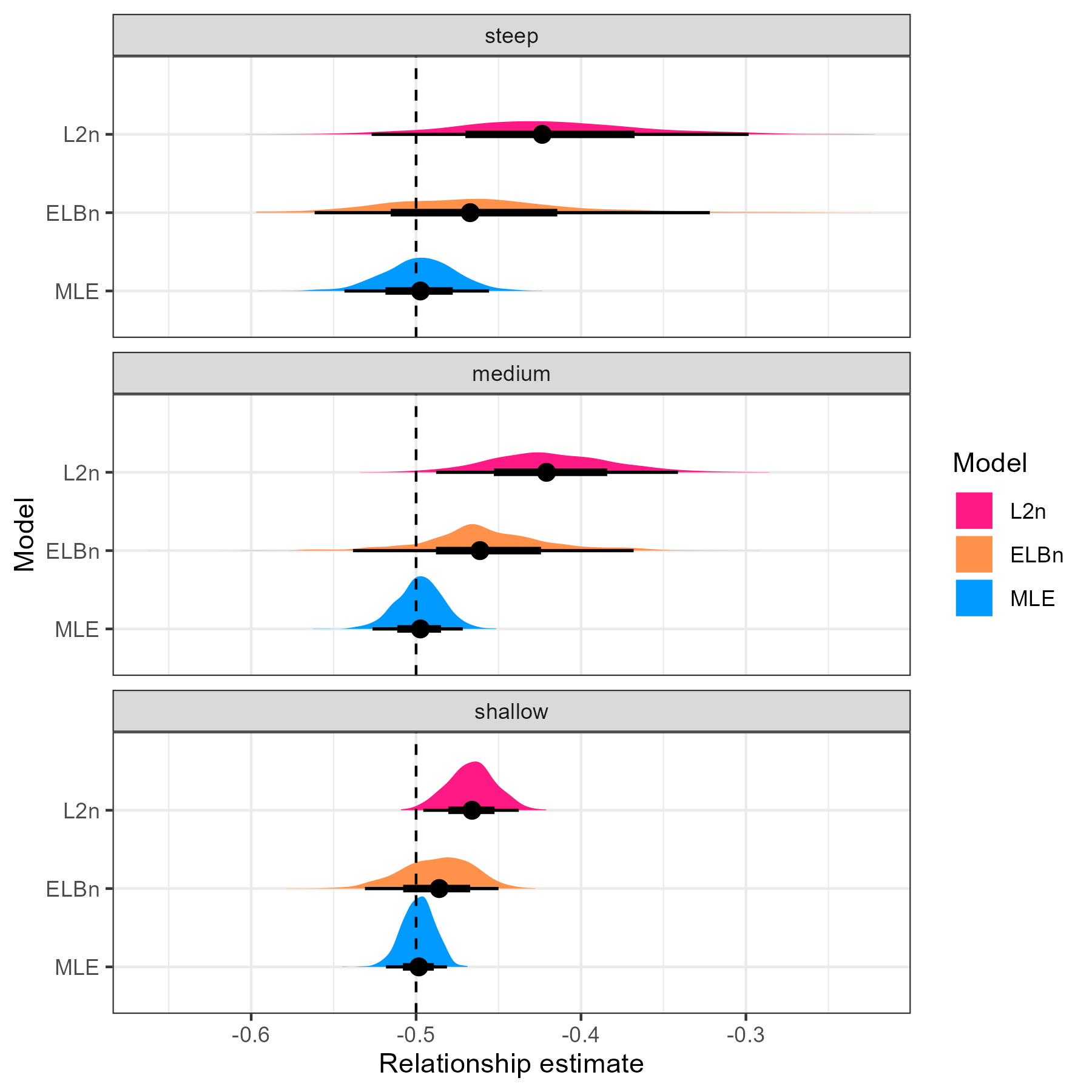


Figure 2. Distribution of relationship estimates () in three different “windows” of lambda values. The dashed vertical line is the known relationship value of -0.5.

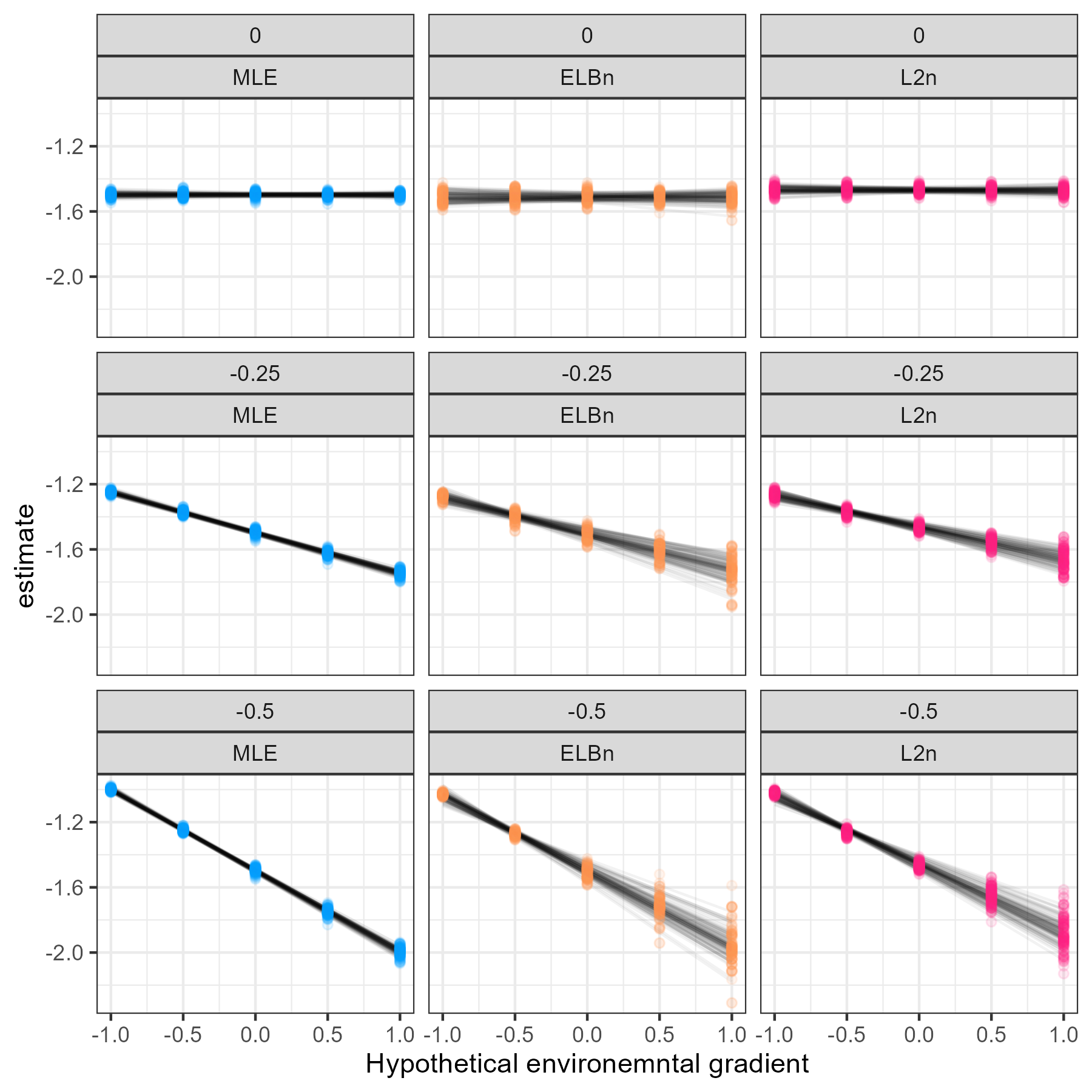


Figure 3. Individual regressions for each rep (N = 1000) and method (columns) for three different known relationship values (rows from bottom to top): 0, 0.25, and 0.5

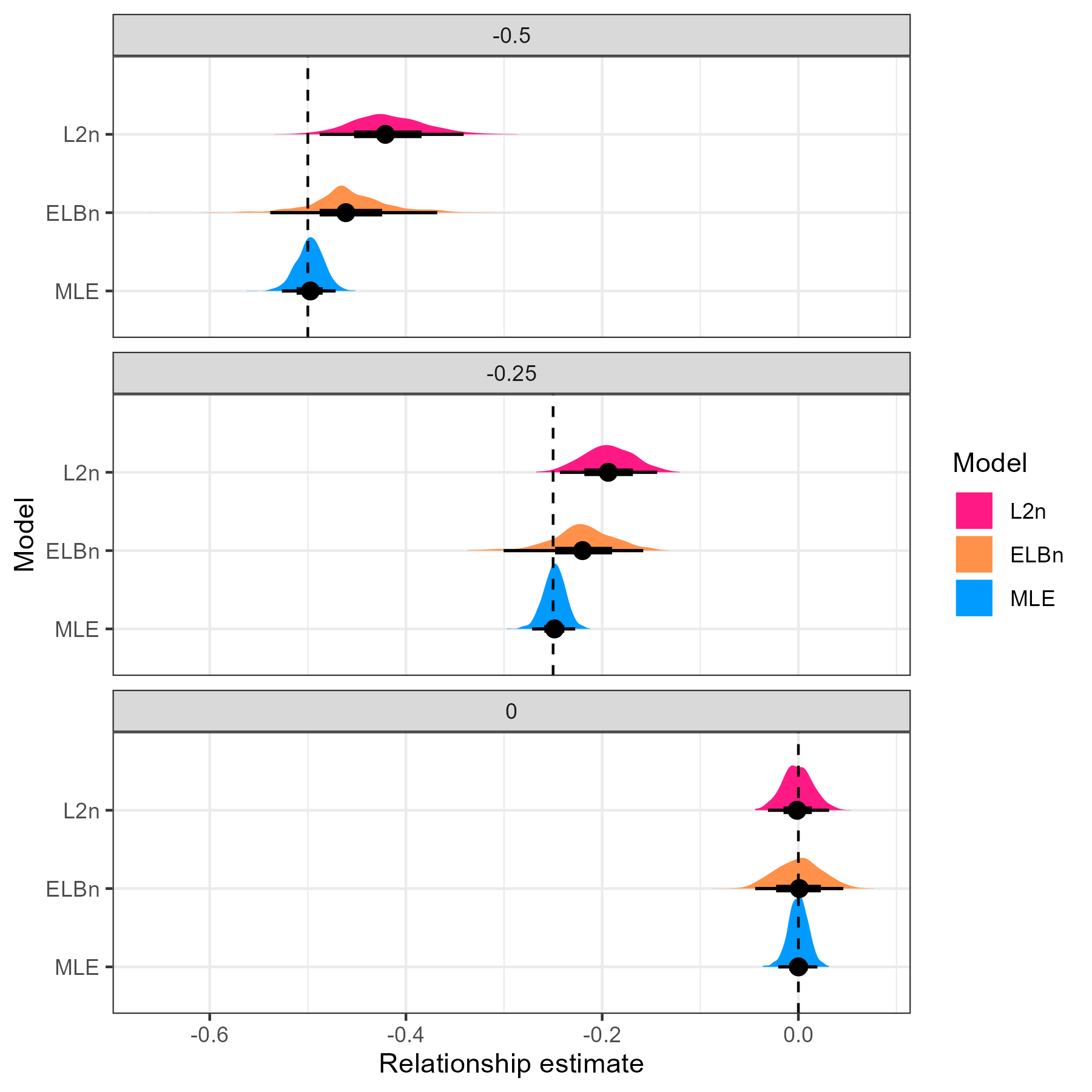


Figure 4. Distribution of relationship estimates (beta\_1) when estimating from different known relationships

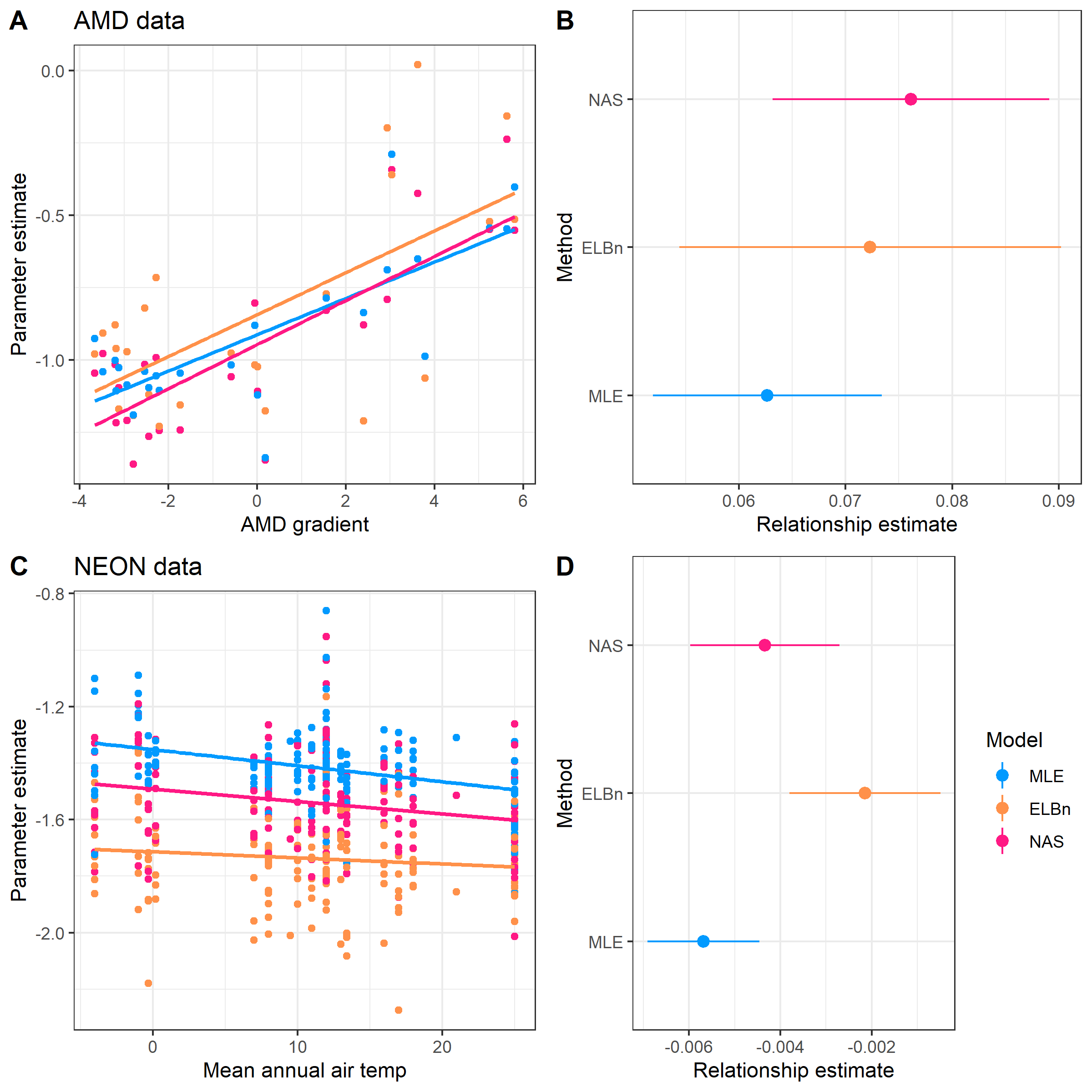


Figure 5. of empirical data estimates. All of the methods estimate the same sign of the relationship, but the estimates from the binning methods are generally greater than the MLE estimates.