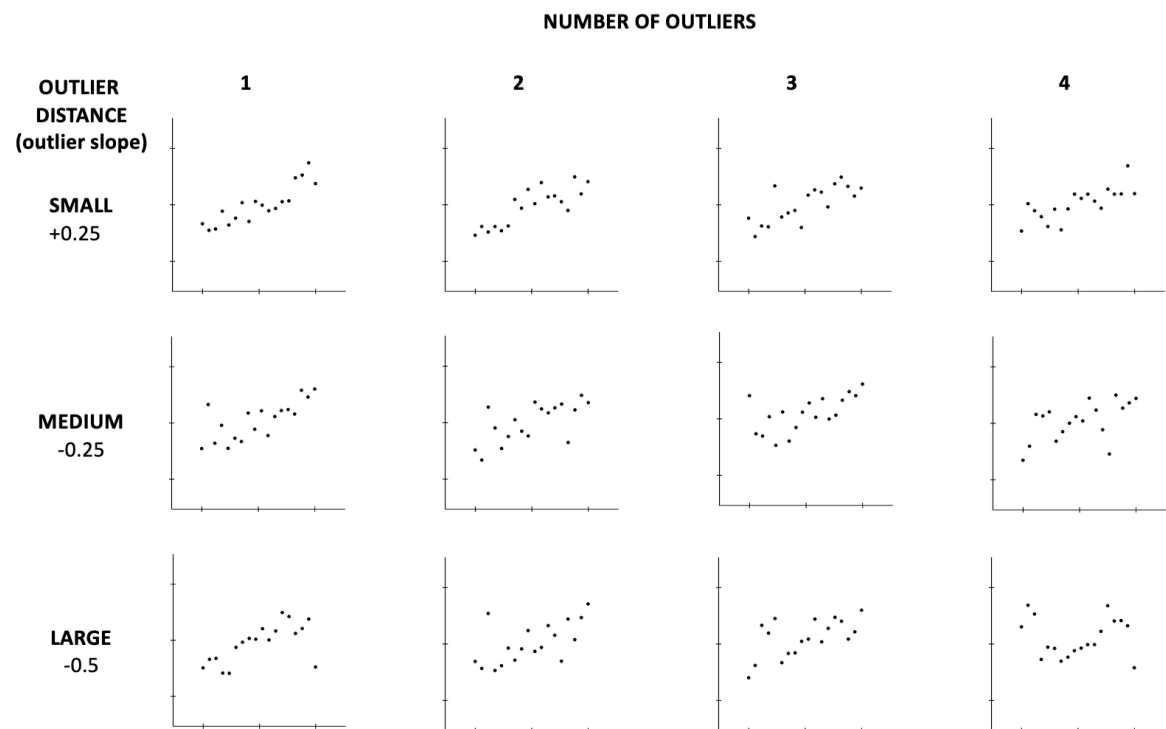
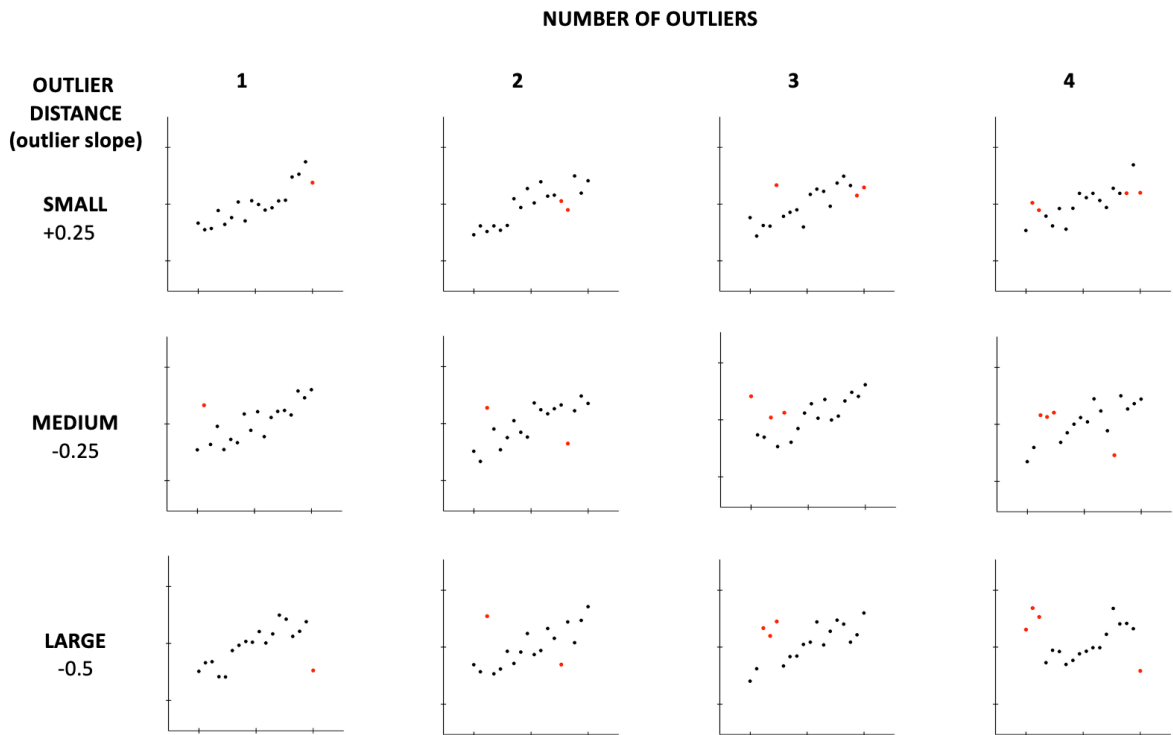


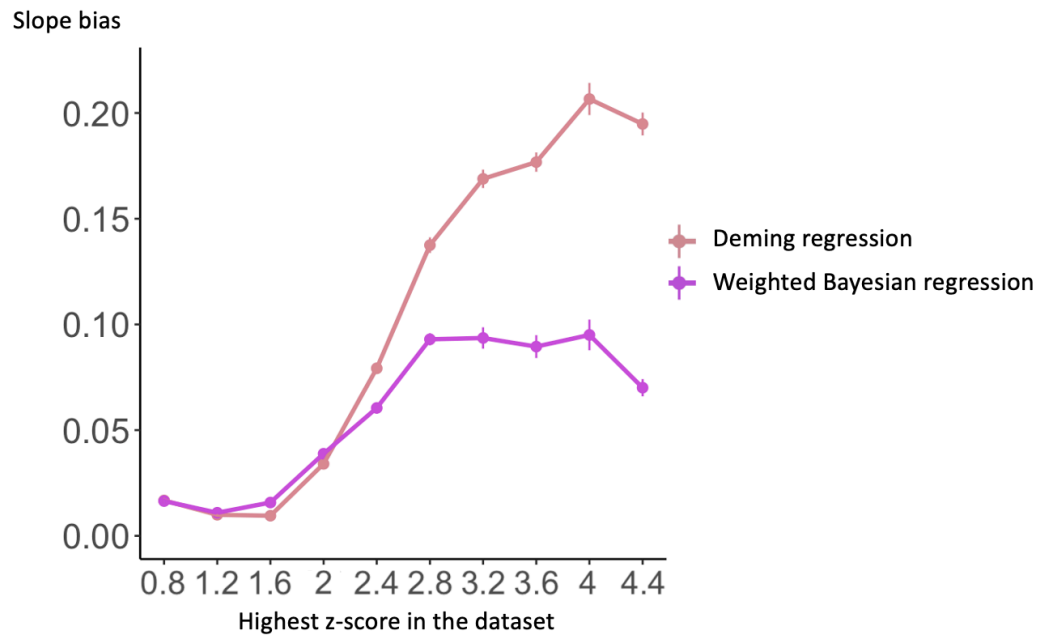
Supplementary materials



Supplementary figure 1. Examples of stimuli for the conditions with a main slope of +0.5. Actual stimuli were white dots on a black background.



Supplementary figure 2. Examples of stimuli for the conditions with a main slope of +0.5 as in supplementary figure 1. Here, outliers are signaled in red for readability purposes. Actual stimuli were white dots on a black background.



Supplementary figure 3. Predictions on slope bias for a model using Deming regression without outlier rejection and for a model with weighted Bayesian approach to outlier rejection, adapted by Chaloner & Brant (1988). As evident from the comparison of this figure with figure 6C, Deming regression mimics participants' response bias in experiment 1: no outlier is excluded. In experiment 2 and 3, the Bayesian model mimics participants' outlier rejection behavior relatively well (compare to figure 6C), although human bias actually decreases to zero for very large highest z-score values, unlike the present model.