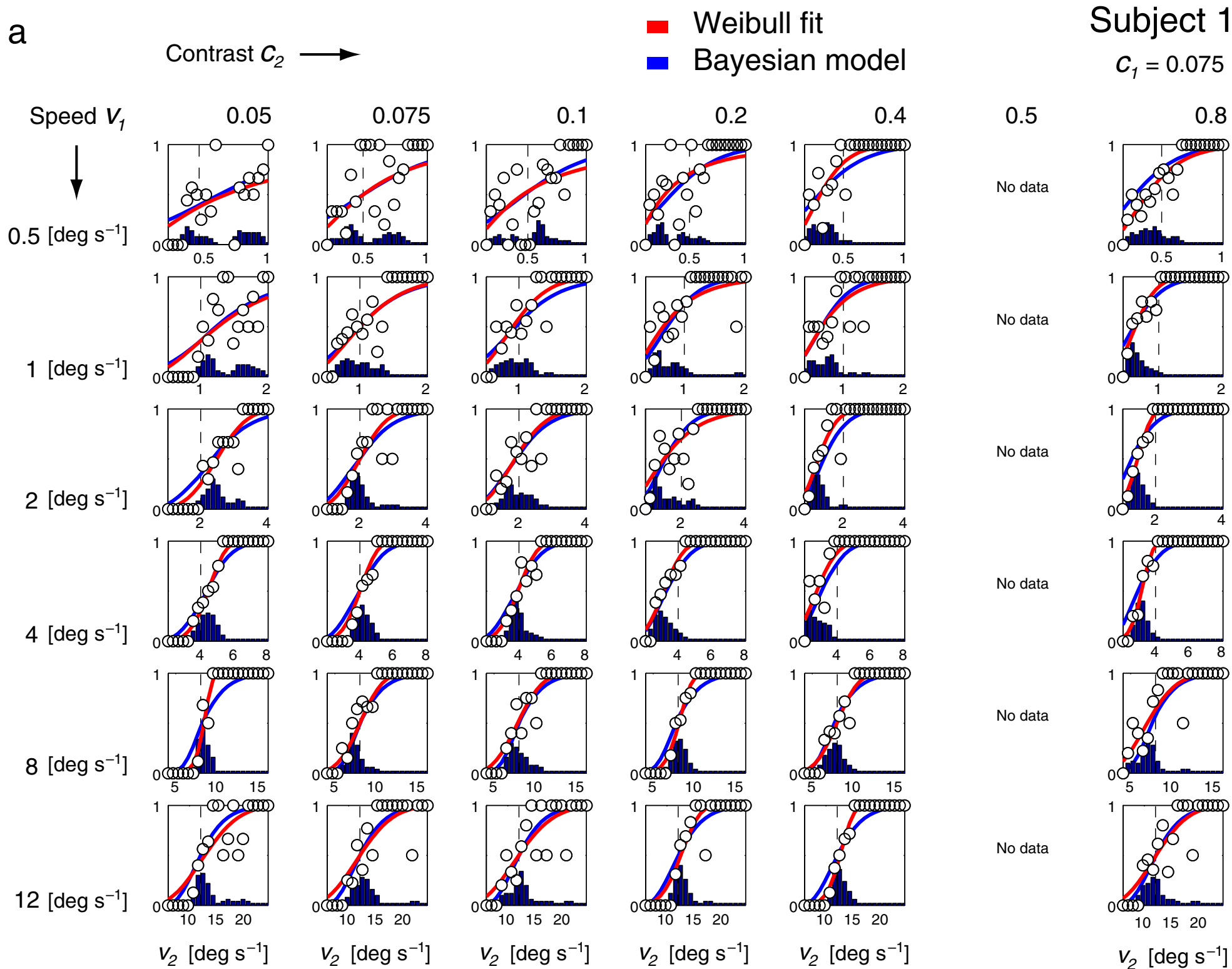
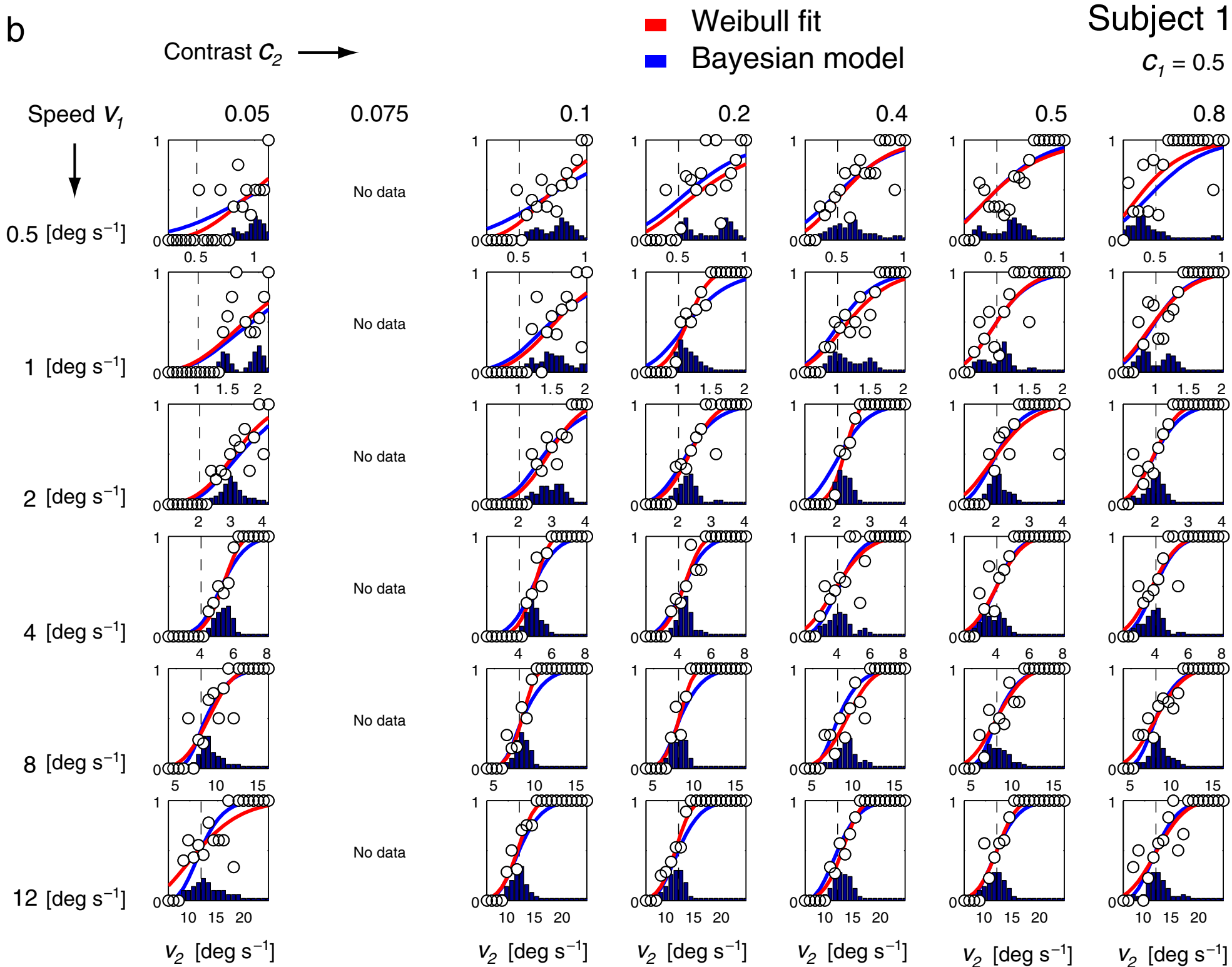


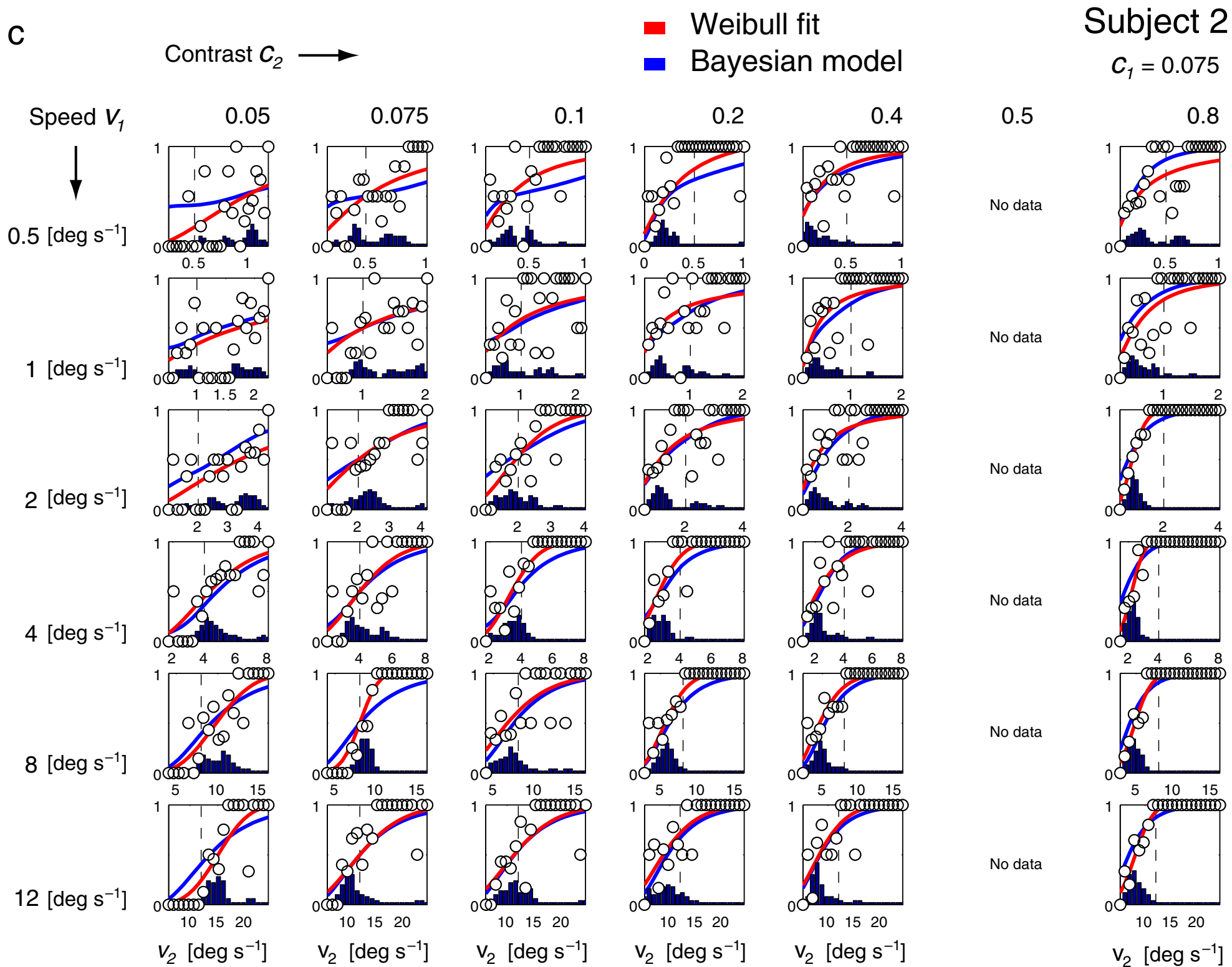
a



b



C

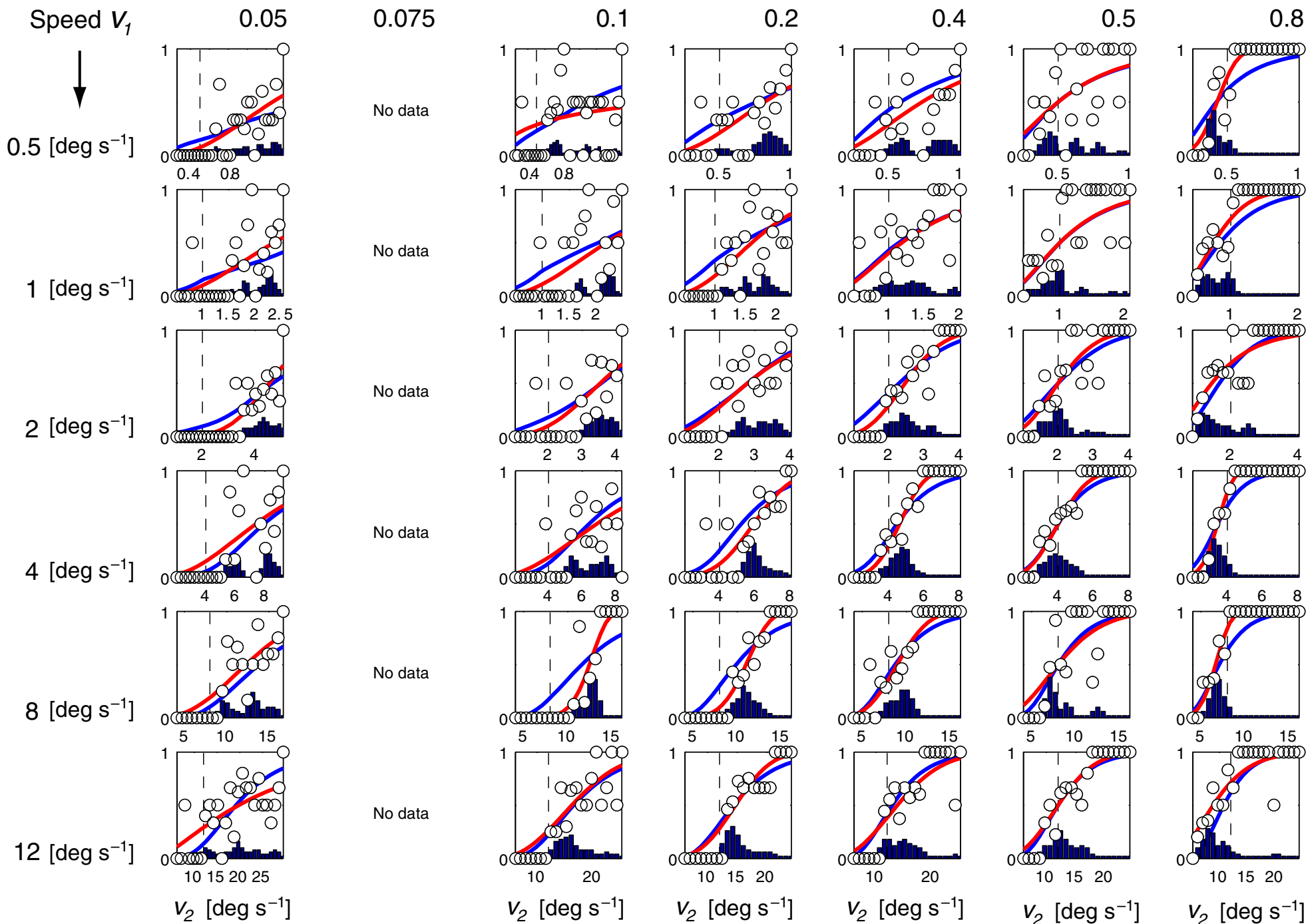


d

Contrast  $C_2 \longrightarrow$ 

■ Weibull fit  
 ■ Bayesian model

Subject 2

 $C_1 = 0.5$ 

*Supplementary Fig. 1a-d:*

Raw psychometric data collected from subject 1 and 2 under all tested conditions. Histograms at the bottom of each graph indicate the distributions of the individual trials (80 per condition). The average response of the proposed Bayesian model is shown using the optimal prior distribution and likelihood function as presented in the main text (Fig. 4). For comparison, Weibull fits to each condition are also plotted.