

SUPPLEMENTARY MATERIAL

Accumulating Advantages: A New Approach to Multialternative Forced Choice Tasks

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This document contains the aggregate posterior predictive data for the WA and LO models with ν and ι free between conditions, labeled $2\nu 2\iota$ in the main manuscript in the left and right panels of Figure 1 respectively. Figure 1 shows that both models capture the qualitative pattern of the data: correct response times are slower in the hard condition than in the easy condition and accuracy is lower in the hard condition than in the easy condition. Details of the full data set and of parameter settings for model fitting can be found in van Ravenzwaaij, Brown, Marley, and Heathcote (2016).

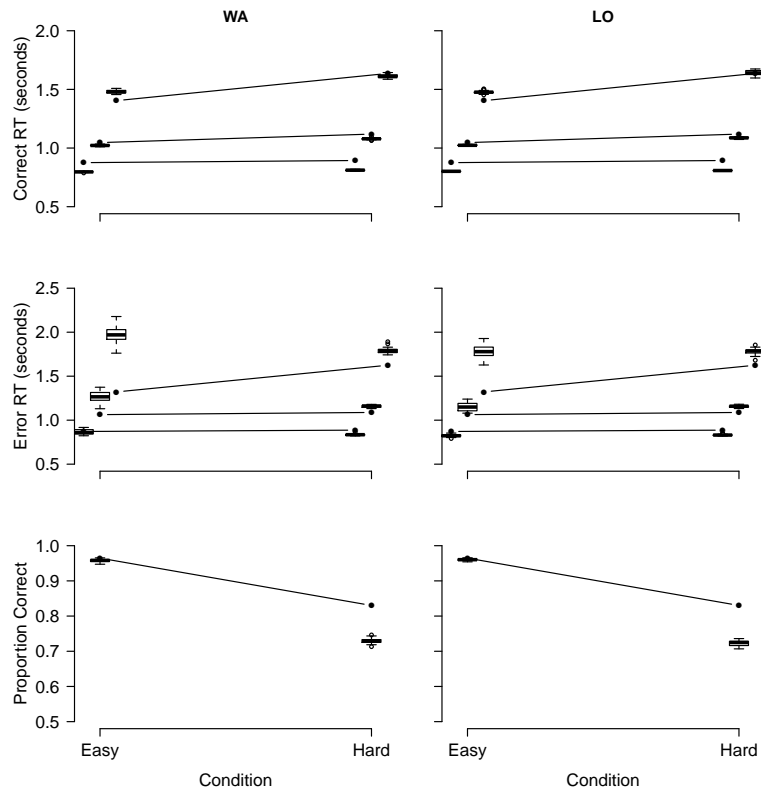


Figure 1. Posterior predictive data for fits to the Teodorescu data. RT .1, .5, and .9 deciles (y-axis) calculated for correct RTs (top row), error RTs (middle row), and the proportion of correct responses (bottom row), all as functions of difficulty condition. For all panels, box-and-whiskers represent posterior predictive data (the box contains 50% of the simulated data, with a bar across the middle indicating the median, and whiskers extend to the data extremes) and lines represent data. Left panel: WA $2\nu 2t$ model; right panel: LO $2\nu 2t$ model. See van Ravenzwaaij et al. (2016) for details.

References

- van Ravenzwaaij, D., Brown, S. D., Marley, A. A. J., & Heathcote, A. (2016). Accumulating advantages: A new approach to multialternative forced choice tasks. Manuscript submitted for publication.