Figure 1. (A) Model simulation of confidence report across heuristic, suboptimal, and optimal models in relation to audiovisual spatial discrepancy and visual stimulus reliability. The heuristic model maintains a constant confidence level for auditory estimates, unaffected by audiovisual discrepancies, due to its sole reliance on auditory reliability. The suboptimal model shows monotonically decreasing confidence as spatial discrepancy increases, attributed to a higher probability of selecting the separate-cause scenario with greater variance. The optimal model presents a non-monotonic confidence trend, dipping at moderate discrepancies where two causal scenarios are both probable, corresponding to the non-monotonic trend of posterior variance. (B) Preliminary data of three distinct participants, each aligning with the qualitative predictions of the respective models.