



Supplemental Figure 1: (A) Spike train distance quantification of response reliability in NA and NM. NA spike train distances are significantly smaller than in NM (medians significantly different by Kruskal-Wallis test,  $p < 0.001$ ). (B) Spike train distance quantification of the effects of  $STRF_{sf}$  on response reliability at different refractory periods. As  $STRF_{sf}$  increases, spike train distances decrease, indicating more reliable responses. (C, D) Modeling the effects of  $STRF_{bw}$  and response reliability. As  $STRF_{bw}$  increases, responses become less reliable, as quantified by the SAC metric (C) and the spike distance metric (D).