



Figure 7 – Figure Supplement 2. Differences in ACC Fano factor in response to startling events, conditioned on LC spiking. (A) Beep related difference in ACC Fano factor for trials in which LC had an evoked response relative to trials in which LC had no evoked response, plotted as a function of the bin size used to count spikes in ACC. Circles and vertical lines are median and bootstrapped 95% confidence estimates across the given set of ACC neurons. (B) Data from “fake-beep trials” (trials with no beep but sorted according to whether or not there was a transient increase in LC spiking comparable in magnitude to the beep-evoked response), plotted as in A. In both panels, Mann-Whitney U-test for H_0 : median difference in ACC Fano factor (after relative to before the beep or “fake-beep”) between the two groups (LC evoked and no evoked) is different for the given bin size, $p < 0.05$ for both monkeys data pooled together (*, none found); filled circles indicate sign-rank test for H_0 : ACC Fano factor differences (after relative to before the beep) within each group are different from zero, $p < 0.05$ for both monkeys data pooled together.