

Figure 3. H1 responses to varied stimuli.

H1 was continuously presented with each of the four stimuli seven times, in order to assess its tuning. Trial-averaged firing rates were computed for counterclockwise (blue) and clockwise (orange) presentations. Instantaneous firing rates were computed by convolving a 200 ms boxcar function with the binarized spike trains. Error bars are 95% confidence intervals computed across 7 trials.

- **a.** Responses to the constant spatial frequency strip, showing strong CCW response throughout the presentation.
- **b.** Responses to the contrast gradient strip. CCW response shows weak ramping as the contrast increases.
- **c.** Responses to the expanding bar length strip. Note the increase in firing rate locked to the appearance of the bar, which decays back after a couple of seconds.
- **d.** Responses to the random stimulus strip. The random stimulus produces a strong but varied response for CCW rotation. Qualitatively, peaks in response seem to appear whenever there is a lower-frequency change in the statistics of the strip (such as when we go from a bulk darker region to a lighter region, or vice versa).