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| sup4_bad_patch |
| **Supplemental Figure 5: Shuffled datasets offer heterogeneous effects for alignment accuracy**  Evaluation of synthetic shuffled dataset on alignment performance for a set of neurons that do not exhibit improvement using a shuffled dataset. Preferred directions were determined using the best alignment to a set of 8 estimates of neural activity. True neural preferred directions were determined using a generalized linear model trained on x- and y-direction hand velocity. **A)** Histograms of algorithm-determined preferred directions of 5 selected neurons using the original dataset. Histograms represent relative frequencies over 100 simulated DNA-based records. Dashed line indicates true neural preferred direction. **B)** Histograms of algorithm-determined preferred directions of 5 selected neurons using a dataset consisting of random 2-second patches of the original dataset. Histograms represent relative frequencies over 100 simulated DNA-based records. Dashed line indicates true neural preferred direction. **C)** Absolute error in estimating the preferred directions of 5 selected neurons using either the original or shuffled dataset. Error bars represent bootstrapped 95% confidence intervals. |