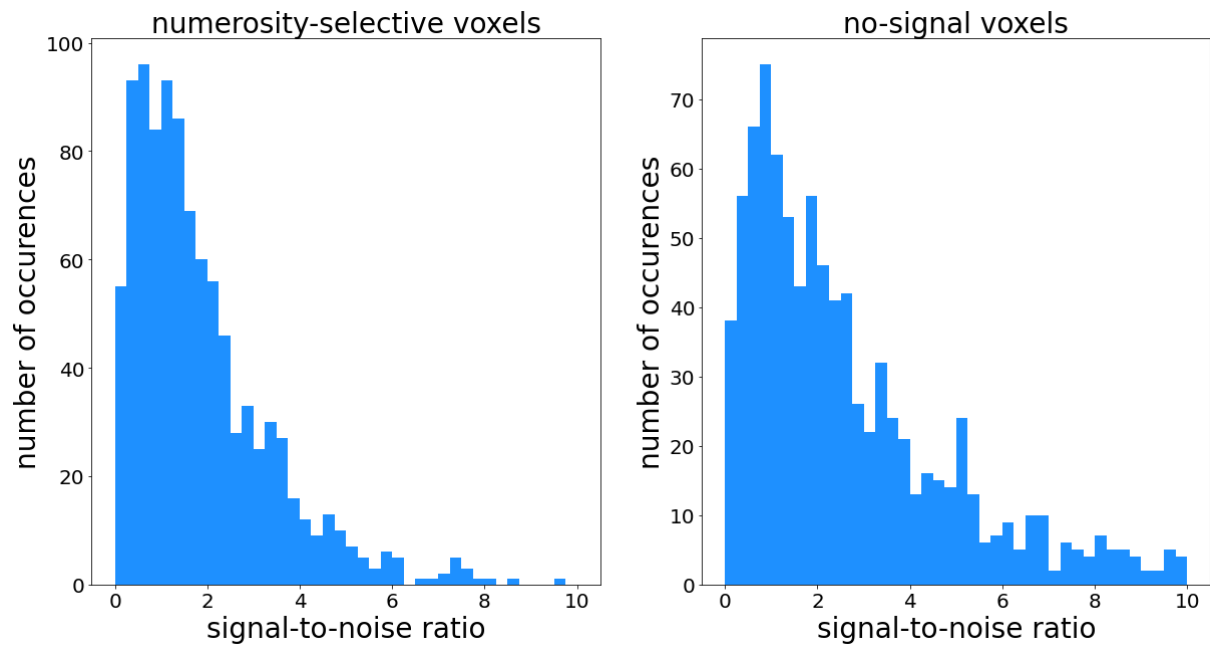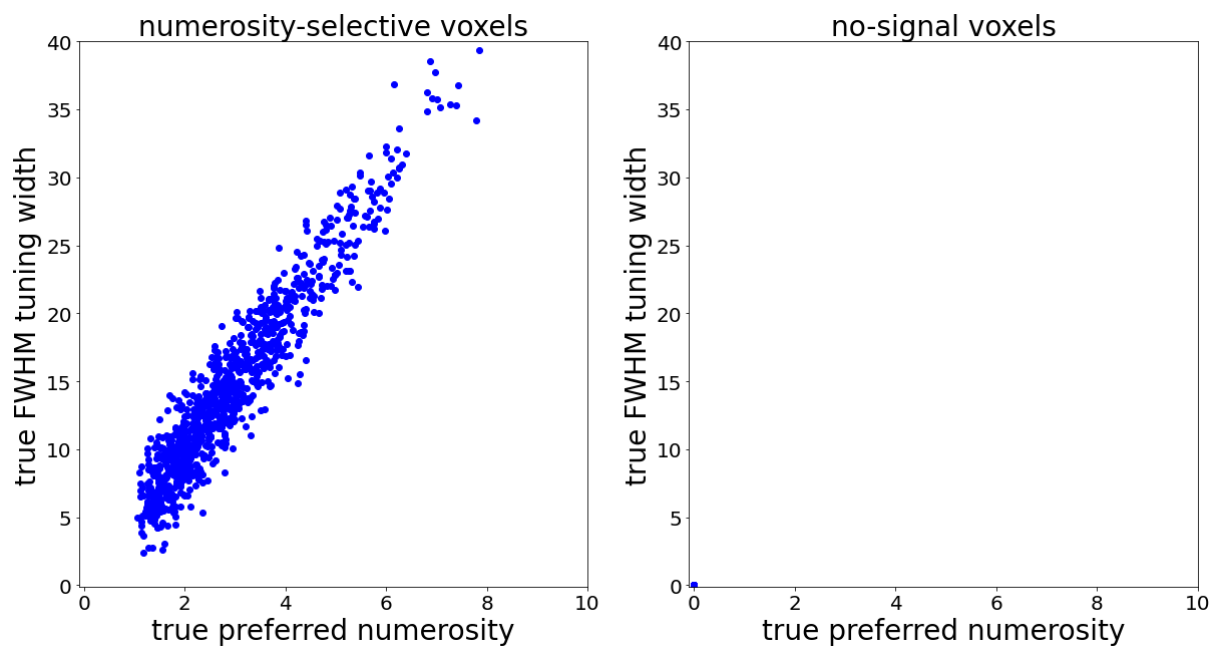# Expected output of `EMPRISE-analysis/code/Python/Demo.py`:
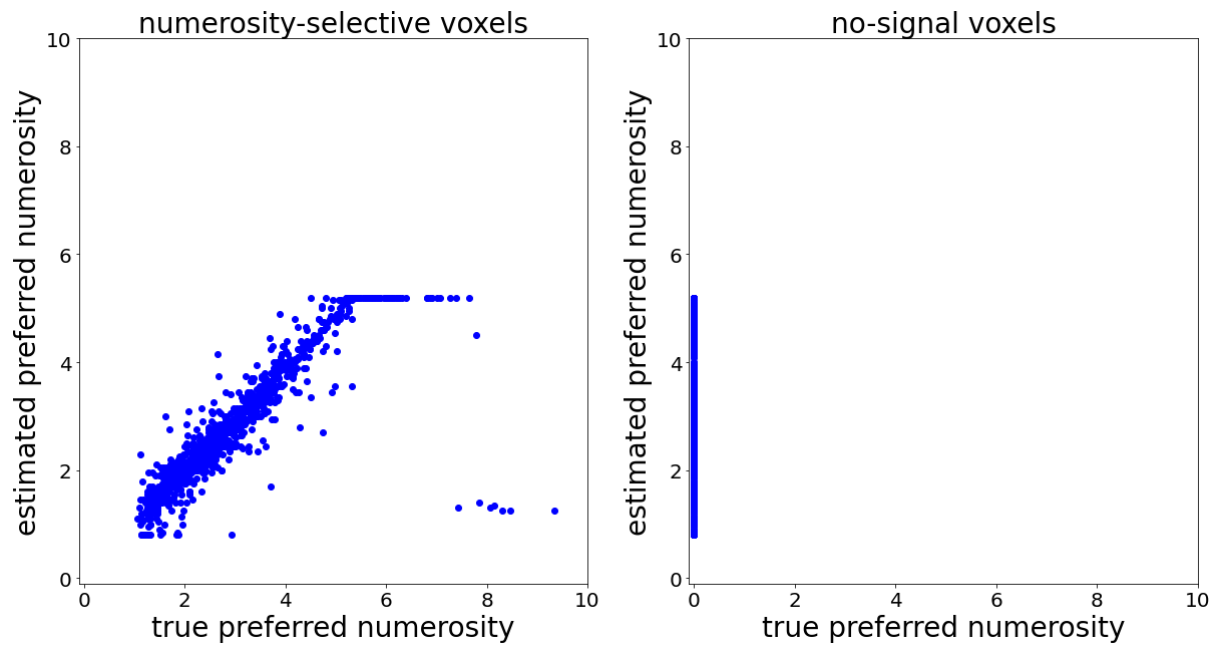
Sanity checks

Distribution of signal-to-noise ratio in numerosity-selective and no-signal voxels.
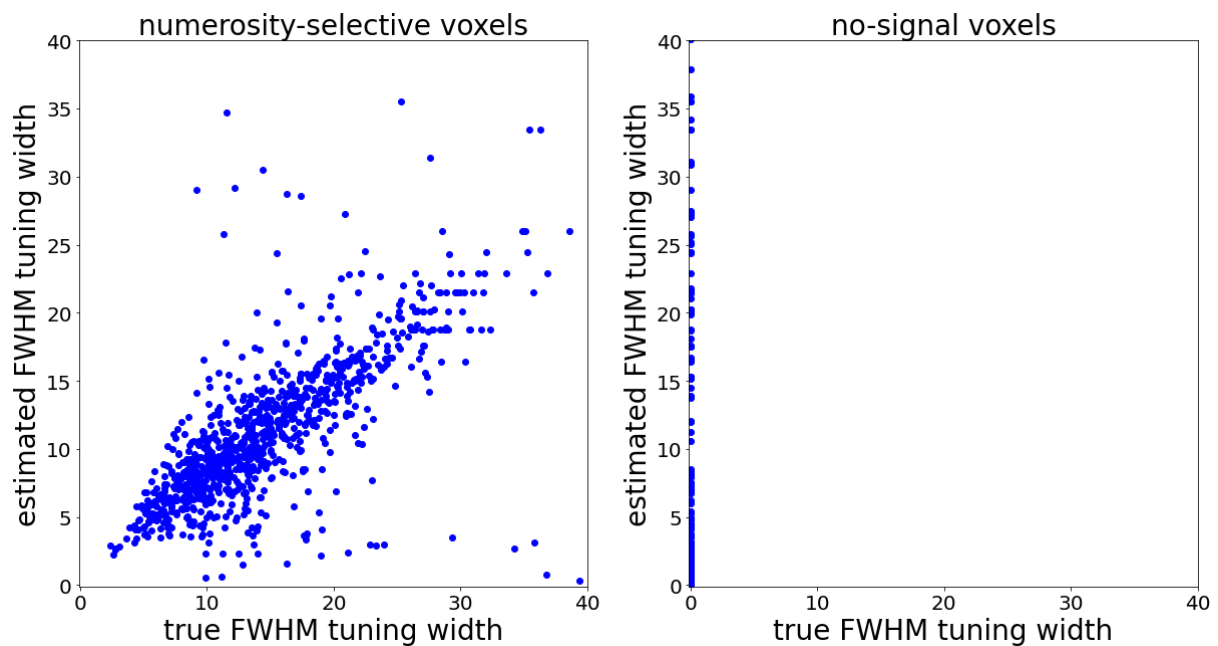

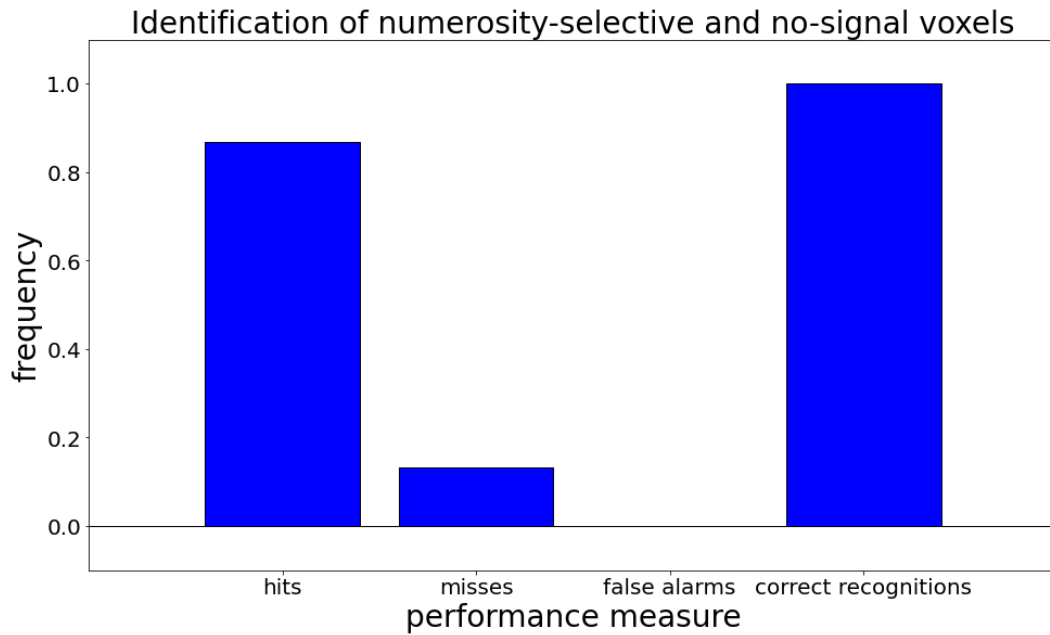Sampled tuning parameters (mu, fwhm) in numerosity-selective and no-signal voxels.

Estimation accuracy

Estimated vs. true preferred numerosity in numerosity-selective and no-signal voxels.


Estimated vs. true FWHM tuning width in numerosity-selective and no-signal voxels.

Identification of numerosity-selective voxels as responsive to numerosity (beta > 0; 1 ≤ mu ≤ 5; R² > 0.2; "hits", rather than "misses") and identification of no-signal voxels as not responsive to numerosity ("correct rejections", rather than "false alarms"). This demonstrates that the technique has high sensitivity and specificity.
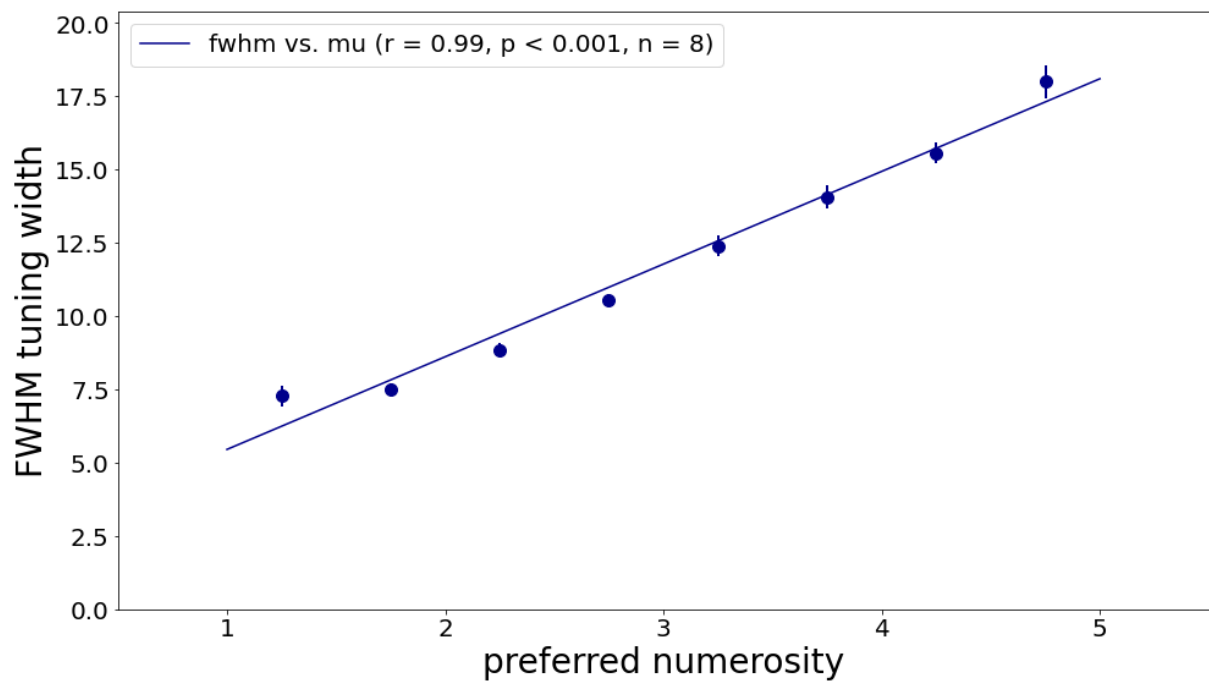
Figures analogous to manuscript
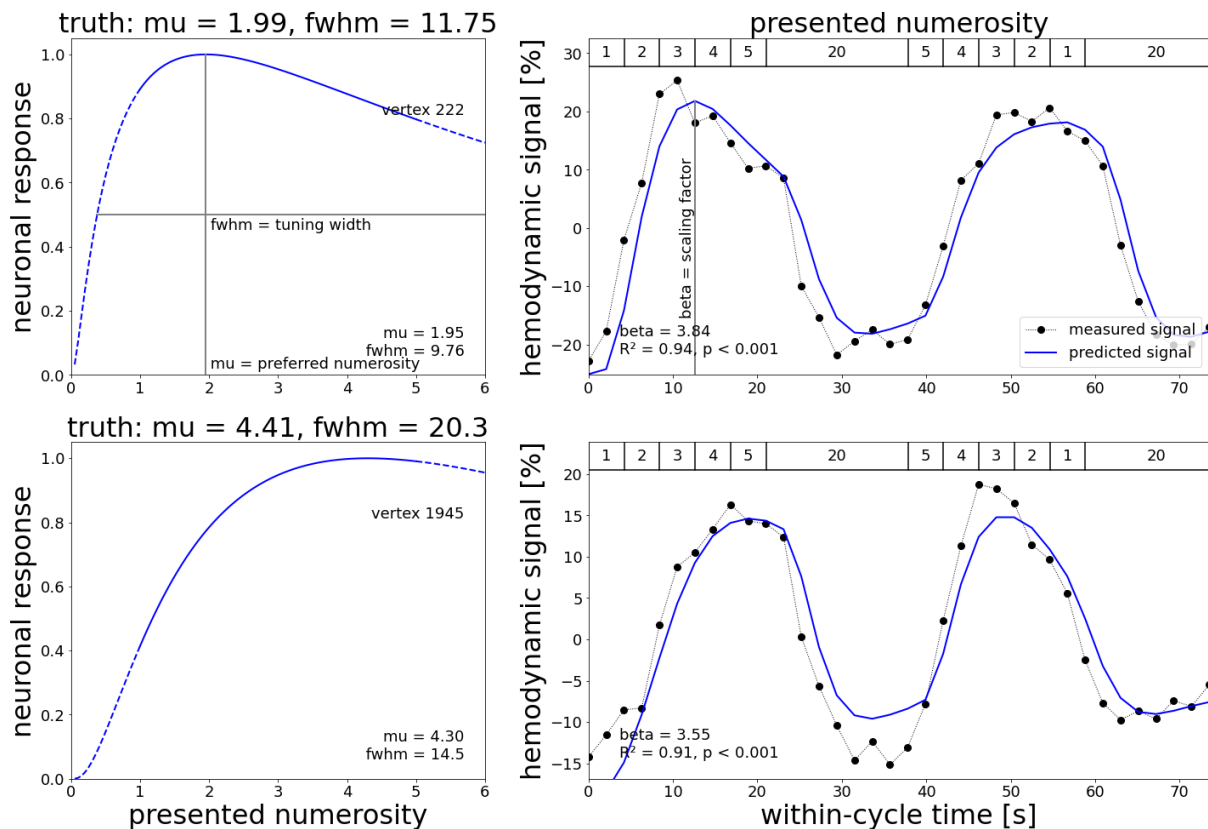
Demo figure corresponding to Figure 2a-d (and Supplementary Figures S1).
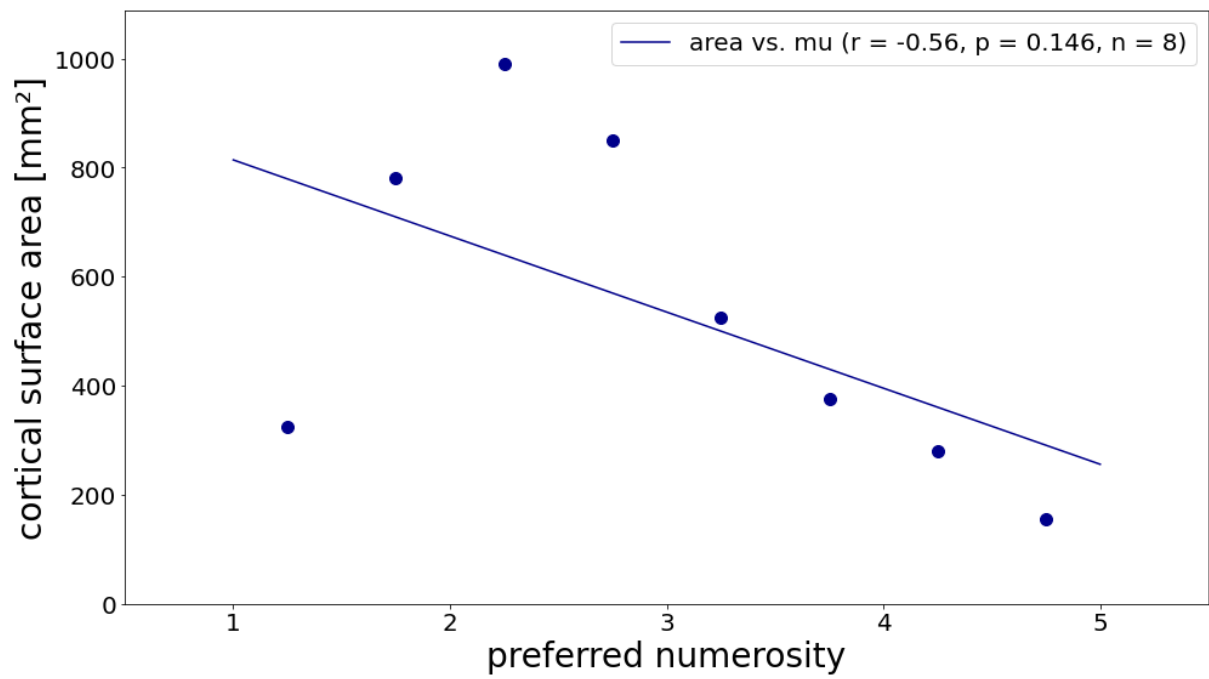
Demo figure corresponding to Figure 5a (and Supplementary Figures S5).

Demo figure corresponding to Figure 5c (and Supplementary Figures S6).