

Supplemental Data

Border Ownership from Intracortical

Interactions in Visual Area V2

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Here are the plots of the connection patterns $J_{i\theta,j\theta'}$ and $W_{i\theta,j\theta'}$ corresponding to that presented in the Experimental Procedures section, to help the readers visualize the connection patterns. The cells are represented by their preferred border orientation and BOWN. The postsynaptic cell is plotted as red colored for J and blue colored for W connections, while all the presynaptic cells are plotted black. The length \times width of the (border segments for the) presynaptic cells are plotted as proportional to the strength of the connections. The proportionality scale for the J connections are different from that for the W connections. Some connections are too weak to be plotted.

Figure S1. Figure showing $J_{i\theta,j\theta'}$ (left) and $W_{i\theta,j\theta'}$ (right) for $\theta = 0$ and $\theta' = 0$

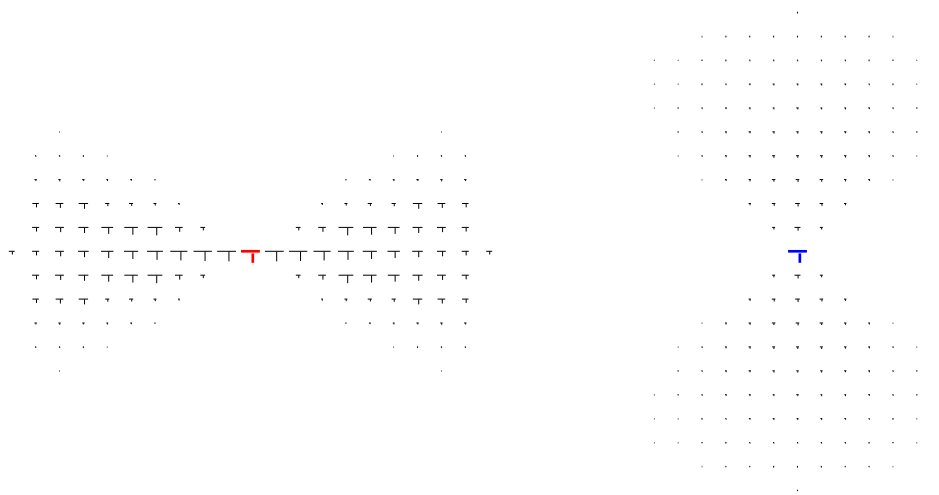


Figure S2. Figure showing $J_{i\theta,j\theta'}$ (left) and $W_{i\theta,j\theta'}$ (right) for $\theta = 0$ and $\theta' = \pi/6$



Figure S3. Figure showing $J_{i\theta,j\theta'}$ (left) and $W_{i\theta,j\theta'}$ (right) for $\theta = 0$ and $\theta' = \pi/3$

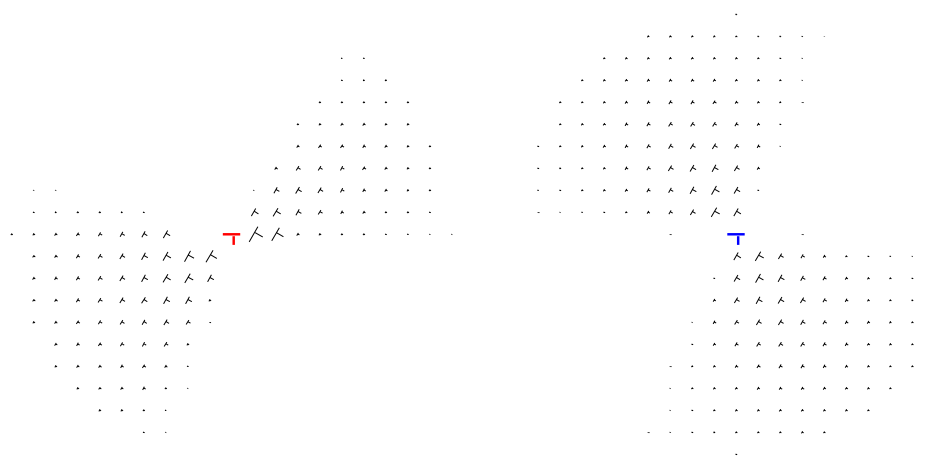


Figure S4. Figure showing $J_{i\theta,j\theta'}$ (left) and $W_{i\theta,j\theta'}$ for $\theta = 0$ and $\theta' = \pi/2$



Note that some connections are between border segments that are likely or unlikely to be the stem and top of a T junction, i.e., they are of the type shown in Figures 2Bc and 2Bf of the manuscript.

Figure S5. Figure showing $J_{i\theta,j\theta'}$ (left) and $W_{i\theta,j\theta'}$ (right) for $\theta = 0$ and $\theta' = 2\pi/3$



Figure S6. Figure showing $J_{i\theta,j\theta'}$ (left) and $W_{i\theta,j\theta'}$ (right) for $\theta = 0$ and $\theta' = 5\pi/6$

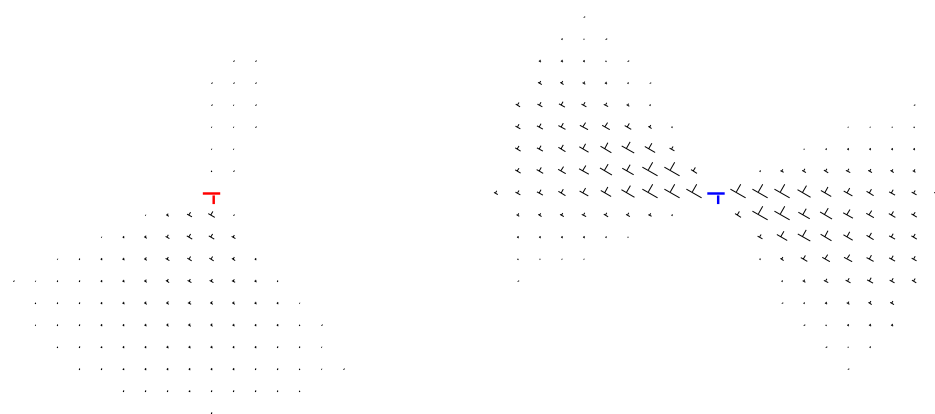


Figure S7. Figure showing $J_{i\theta,j\theta'}$ (left) and $W_{i\theta,j\theta'}$ (right) for $\theta = 0$ and $\theta' = \pi$

