## **OKernel**

-250

Stim

Fixed Stim-RT Interval

RT

+200

Visual Contrast Step **Reaction Times Cumulative Reaction Times** 8 sessions from Animal 2171 200 0 trial minimum for hits/misses No required delta-d' with opto 0.8 150 Avg (SD) d' noStim: 2.69 (0.28) Avg (SD) d' stim: 2.74 (0.22) 0.6 Avg (SD) delta d': -0.05 (0.16) 100 0.4 50 0.2 0 0 -500 0 500 -500 0 500 Time Relative to Stimulus Time Relative to Stimulus Hit Kernel (n=695) Miss Kernel (n=228) Total Kernel (n=923) 0.7 0.7 0.15 Normalized Power 0.1 0.6 0.6 0.05 0 0.5 0.5 -0.05 0.4 0.4 -0.1 -400 0 400 -400 0 400 -400 0 400 Time Relative to Stimulus Time Relative to Stimulus Time Relative to Stimulus RT Aligned (n=695) Early Aligned (n=128) Random Kernel (n=923) 0.7 0.7 0.15 Normalized Power 0.1 0.6 0.6 0.05 0.5 -0.05 0.4 0.4 -0.1 -600 200 -600 200 -400 400 Time Relative to RT Time Relative to FA Time Relative to Stimulus Stim-RT Aligned (n=695) 0.7 Normalized Power 0.6 0.5 0.4