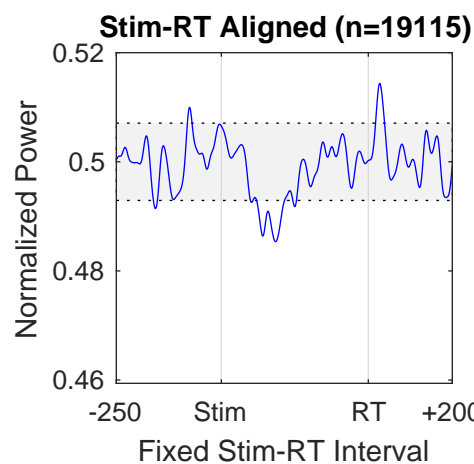
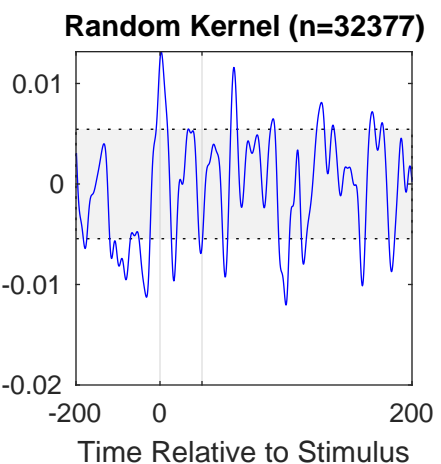
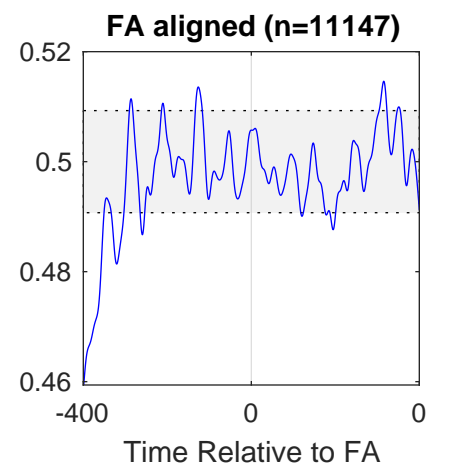
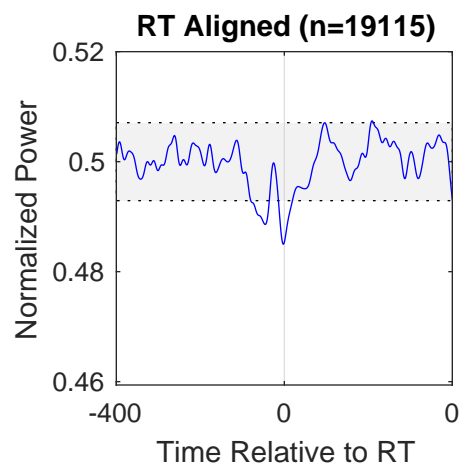
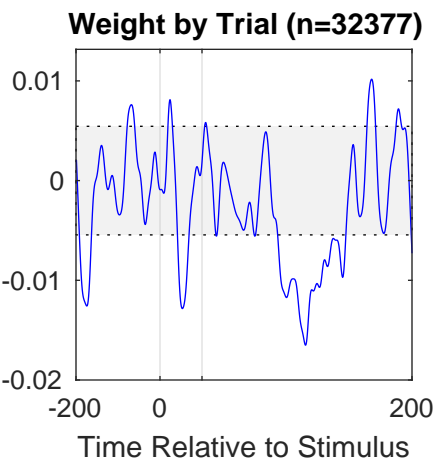
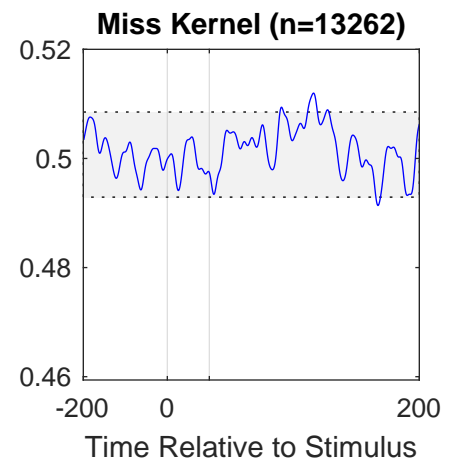
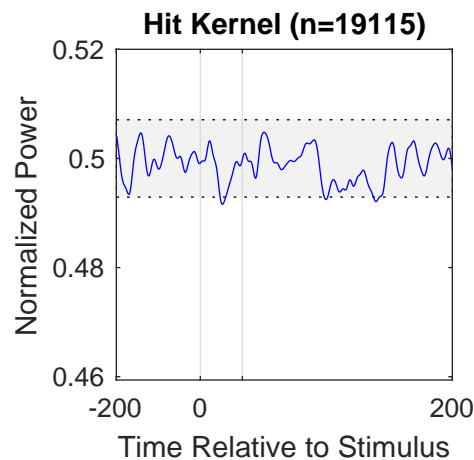
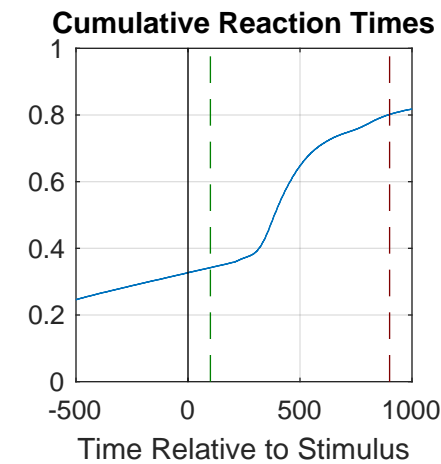
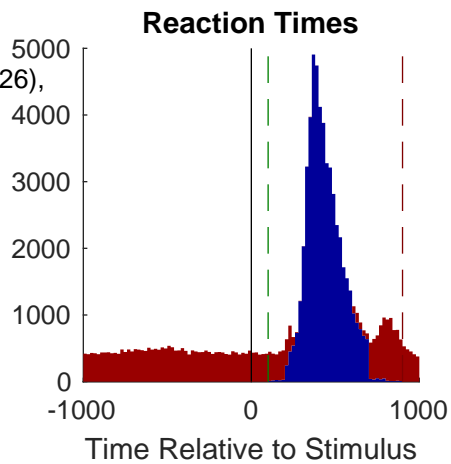


# OKernel

Visual Contrast Ramp 500 ms  
207 sessions from 6 animals  
1145 (18), 1150 (64), 1218 (48), 1220 (26),  
1257 (24), 902 (27),  
10 trial minimum for hits/misses  
Delta d' >=-0.25  
Avg(SD) d' noStim: 1.46 (0.50)  
Avg(SD) d' stim: 1.31 (0.52)  
Avg(SD) delta d': 0.15 (0.25)



# OKernel

Visual Contrast Ramp 500 ms

203 sessions from 6 animals

1145 (18), 1150 (63), 1218 (46), 1220 (25),  
1257 (24), 902 (27),

10 trial minimum for hits/misses

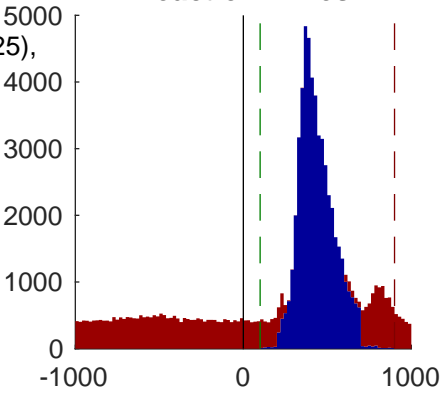
Delta d' >=-0.20

Avg(SD) d' noStim: 1.46 (0.50)

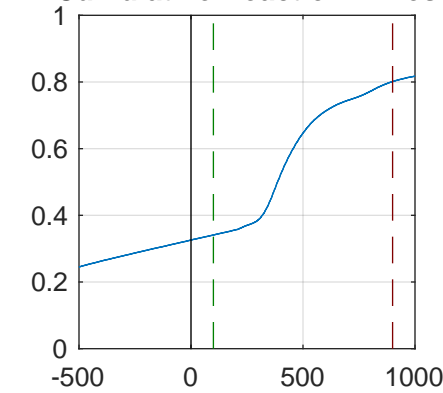
Avg(SD) d' stim: 1.30 (0.51)

Avg(SD) delta d': 0.16 (0.25)

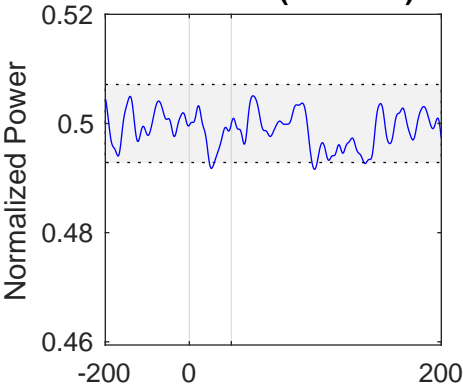
Reaction Times



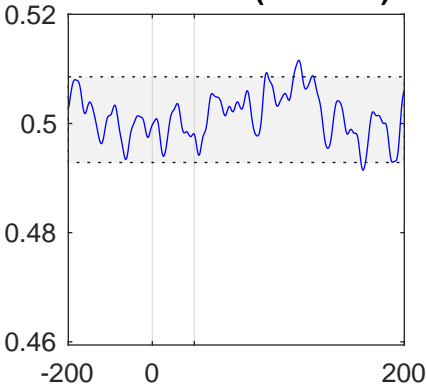
Cumulative Reaction Times



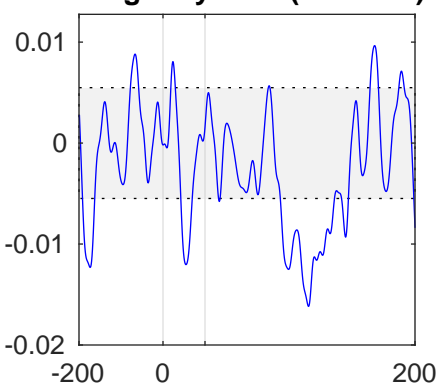
Hit Kernel (n=18794)



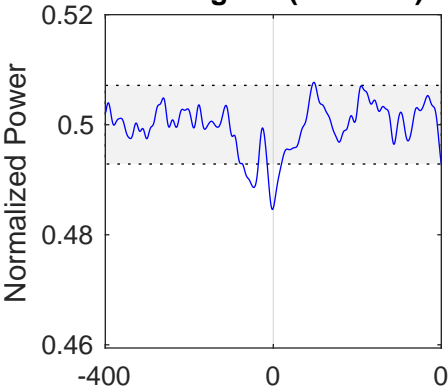
Miss Kernel (n=13101)



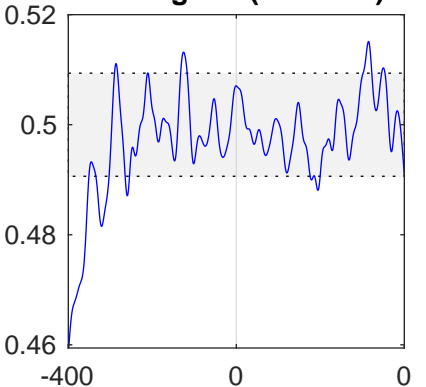
Weight by Trial (n=31895)



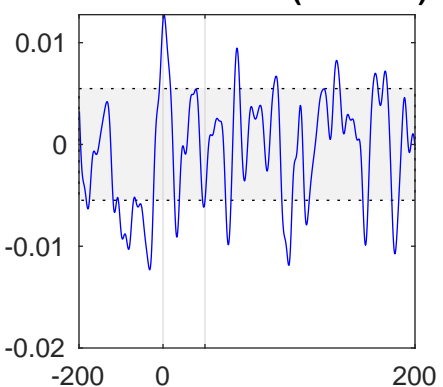
RT Aligned (n=18794)



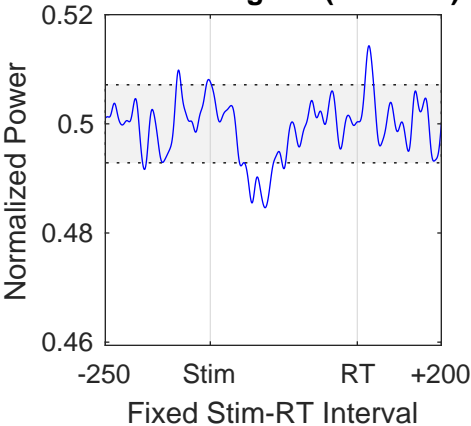
FA aligned (n=10943)



Random Kernel (n=31895)

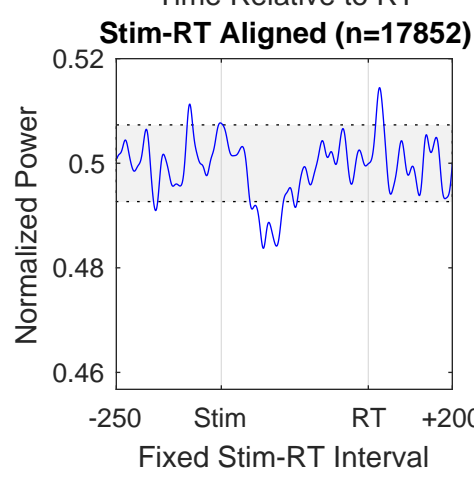
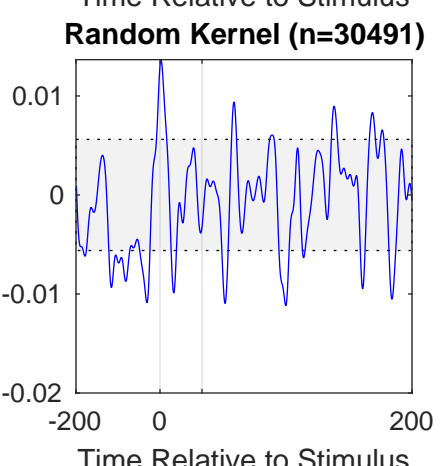
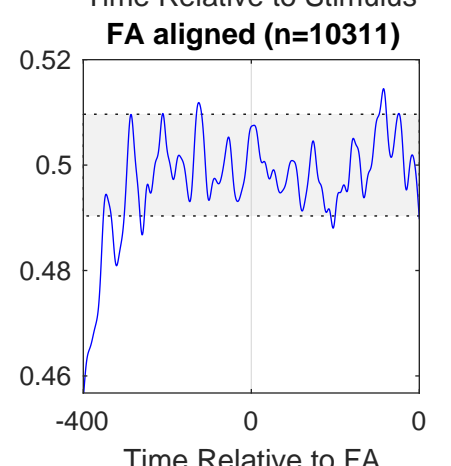
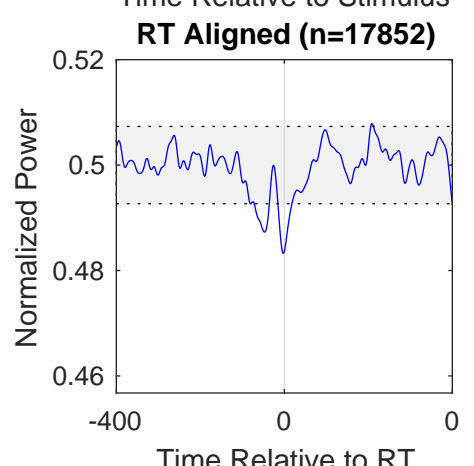
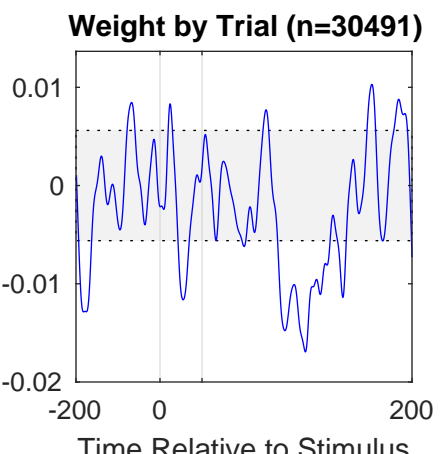
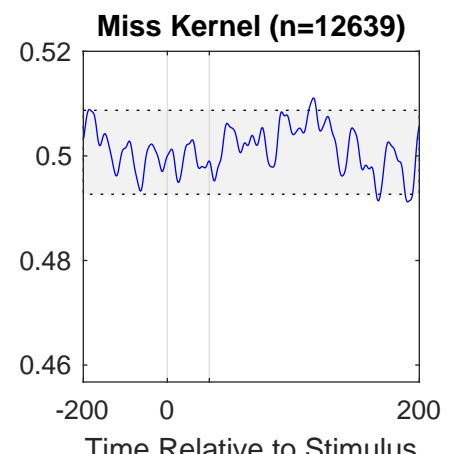
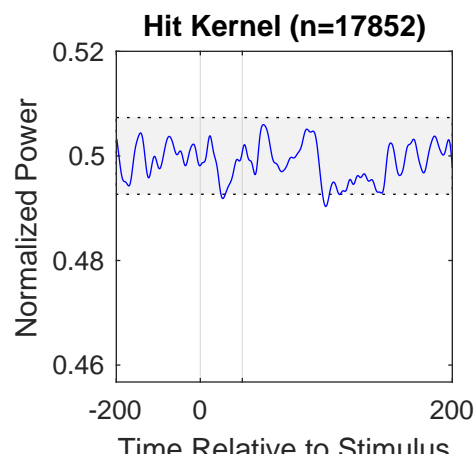
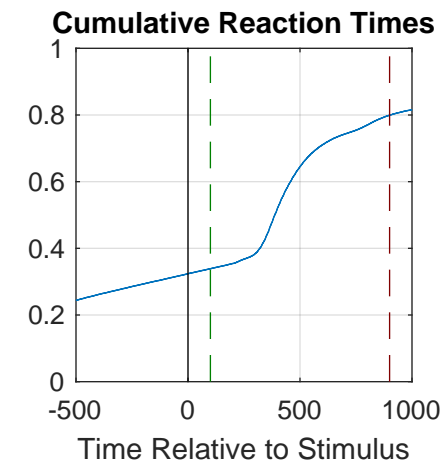
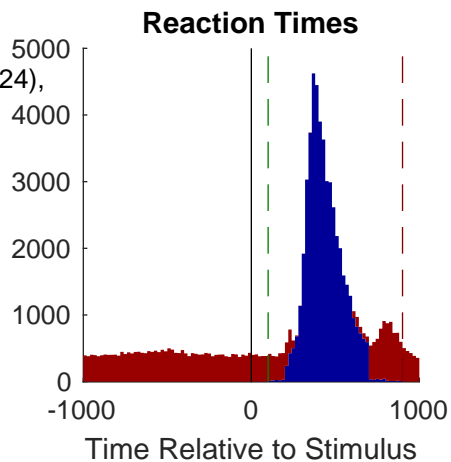


Stim-RT Aligned (n=18794)



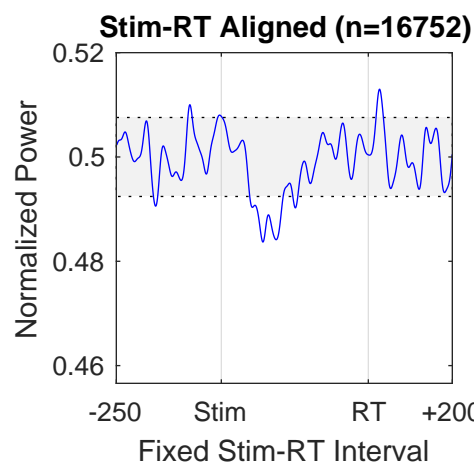
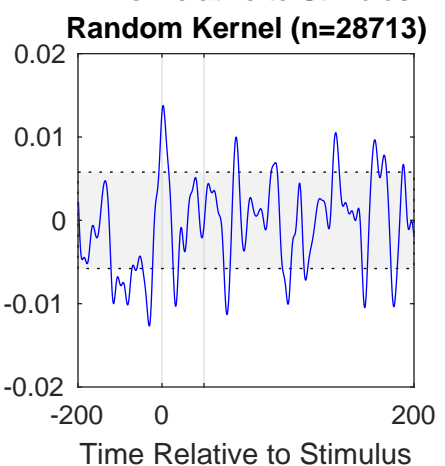
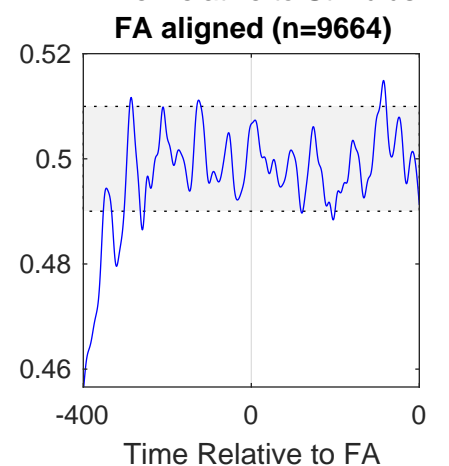
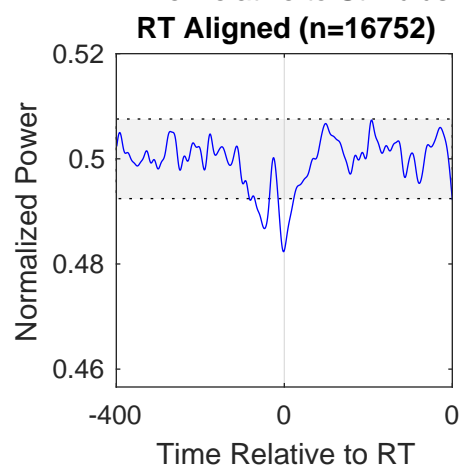
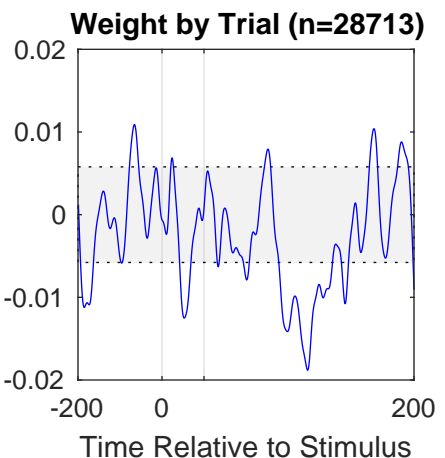
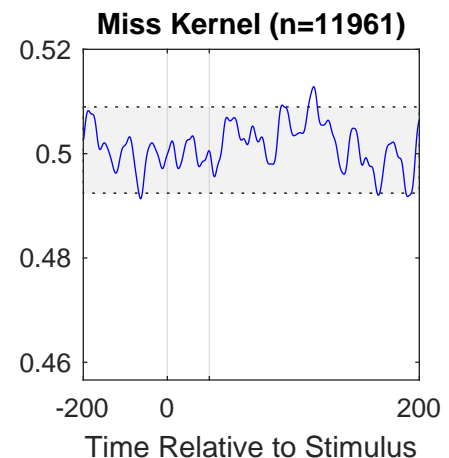
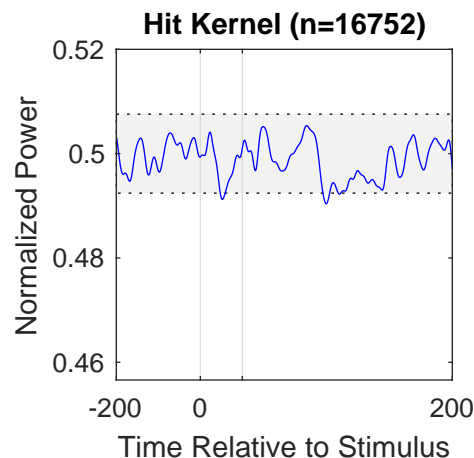
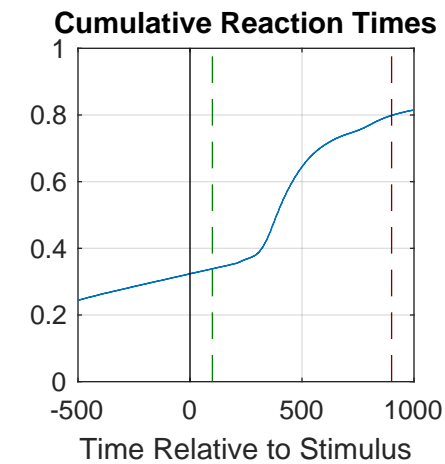
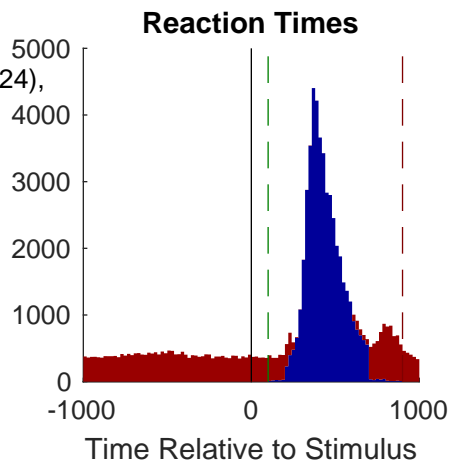
# OKernel

Visual Contrast Ramp 500 ms  
194 sessions from 6 animals  
1145 (15), 1150 (62), 1218 (43), 1220 (24),  
1257 (23), 902 (27),  
10 trial minimum for hits/misses  
Delta d' >= -0.15  
Avg(SD) d' noStim: 1.47 (0.50)  
Avg(SD) d' stim: 1.29 (0.52)  
Avg(SD) delta d': 0.18 (0.24)



# OKernel

Visual Contrast Ramp 500 ms  
184 sessions from 6 animals  
1145 (12), 1150 (62), 1218 (38), 1220 (24),  
1257 (21), 902 (27),  
10 trial minimum for hits/misses  
Delta d' >=-0.10  
Avg(SD) d' noStim: 1.48 (0.51)  
Avg(SD) d' stim: 1.28 (0.53)  
Avg(SD) delta d': 0.19 (0.24)



# OKernel

Visual Contrast Ramp 500 ms

155 sessions from 5 animals

1150 (57), 1218 (30), 1220 (23), 1257 (18),  
902 (27),

10 trial minimum for hits/misses

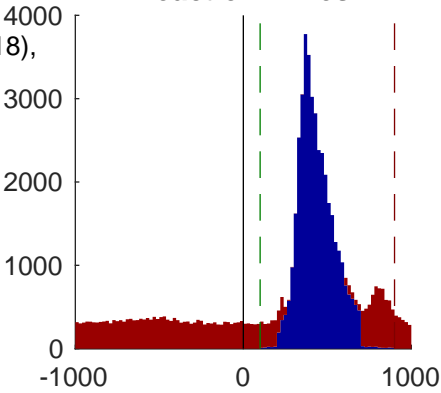
Delta d' >=-0.05

Avg(SD) d' noStim: 1.51 (0.52)

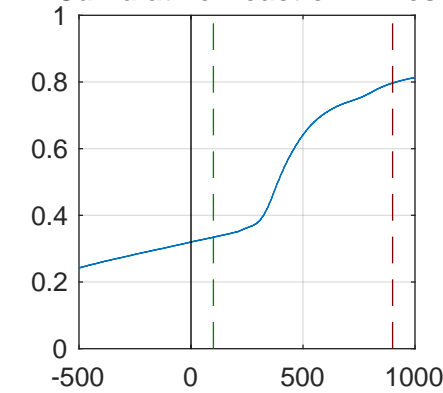
Avg(SD) d' stim: 1.28 (0.55)

Avg(SD) delta d': 0.23 (0.24)

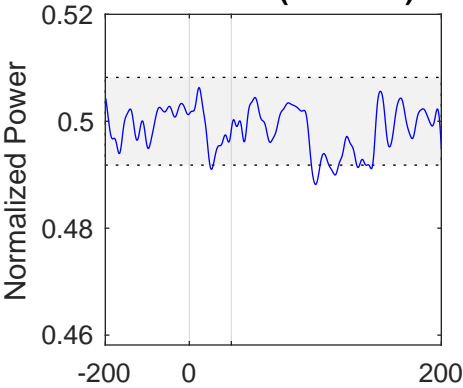
Reaction Times



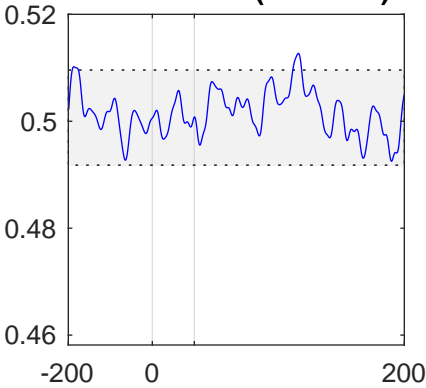
Cumulative Reaction Times



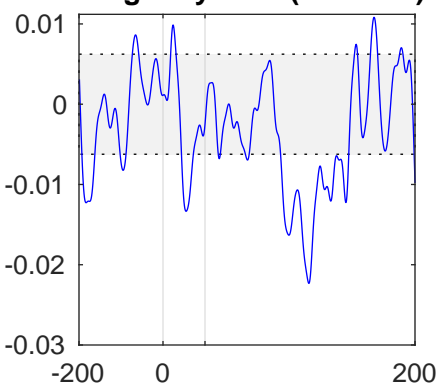
Hit Kernel (n=14259)



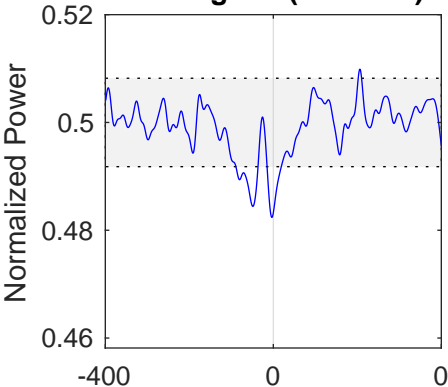
Miss Kernel (n=10456)



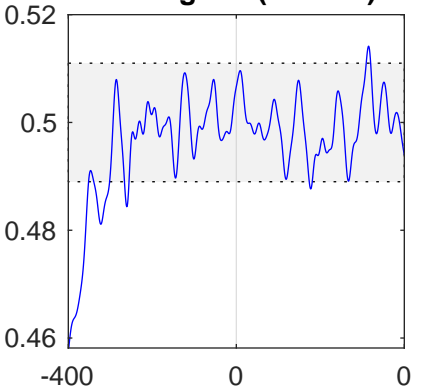
Weight by Trial (n=24715)



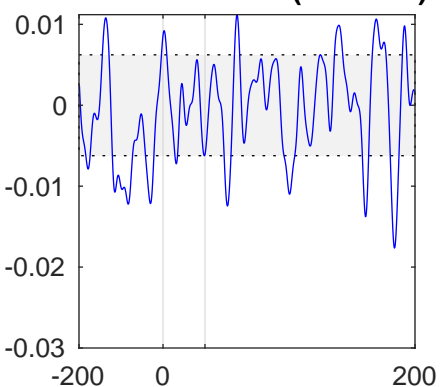
RT Aligned (n=14259)



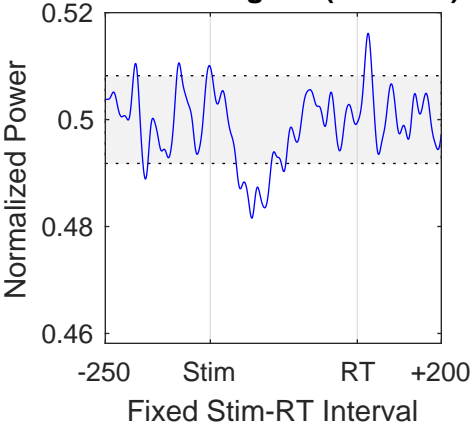
FA aligned (n=7938)



Random Kernel (n=24715)



Stim-RT Aligned (n=14259)



# OKernel

Visual Contrast Ramp 500 ms

135 sessions from 5 animals

1150 (49), 1218 (26), 1220 (21), 1257 (12),

902 (27),

10 trial minimum for hits/misses

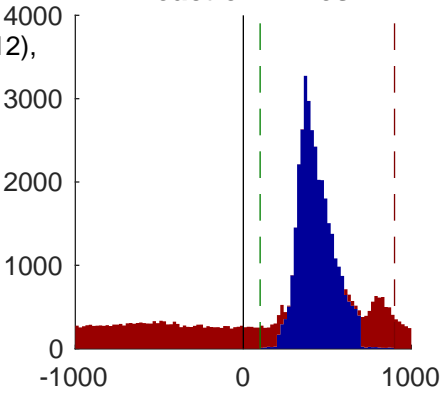
Delta d'  $\geq 0.00$

Avg(SD) d' noStim: 1.53 (0.53)

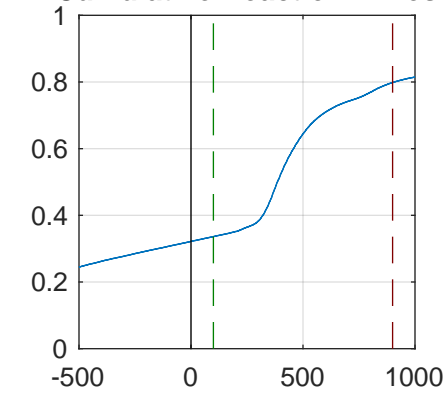
Avg(SD) d' stim: 1.27 (0.55)

Avg(SD) delta d': 0.27 (0.23)

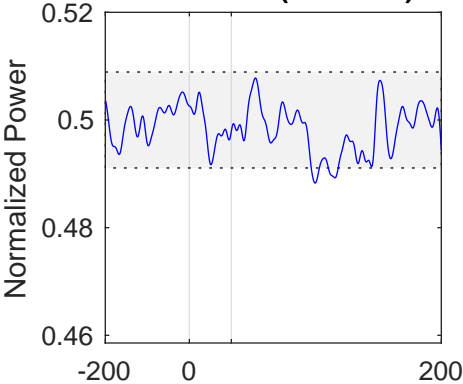
Reaction Times



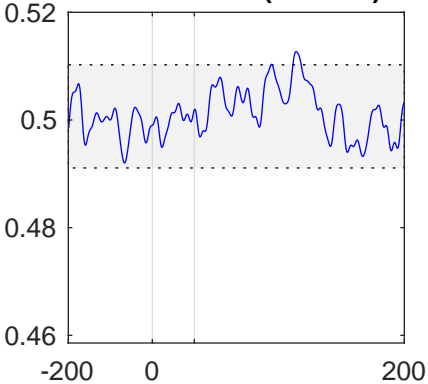
Cumulative Reaction Times



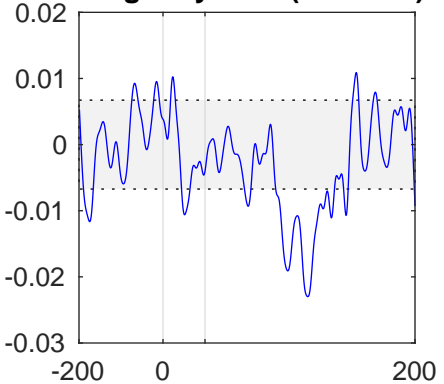
Hit Kernel (n=12087)



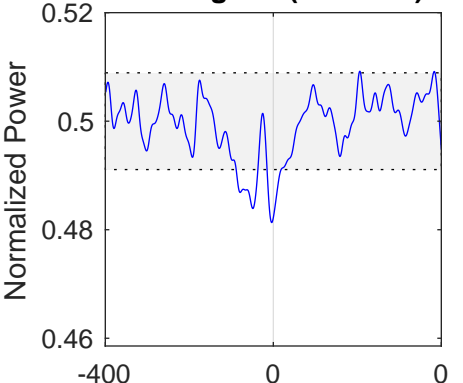
Miss Kernel (n=9150)



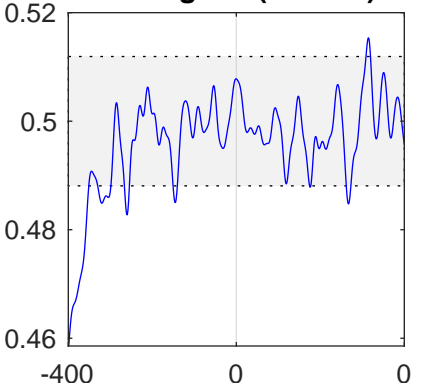
Weight by Trial (n=21237)



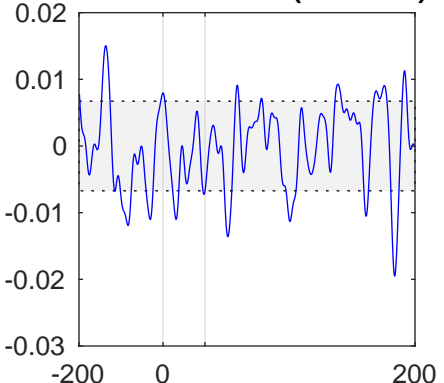
RT Aligned (n=12087)



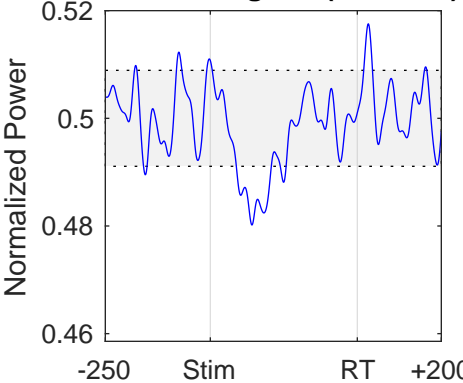
FA aligned (n=6761)



Random Kernel (n=21237)

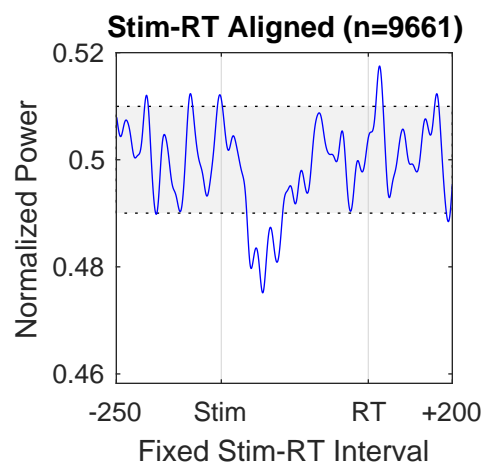
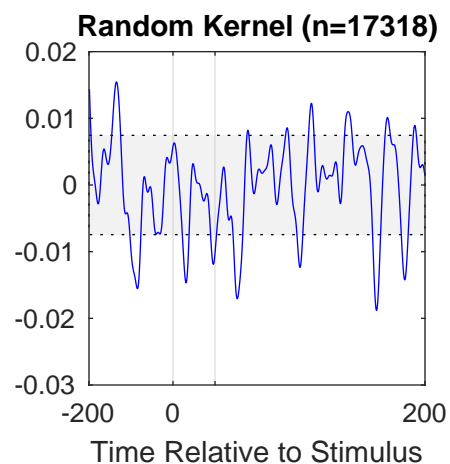
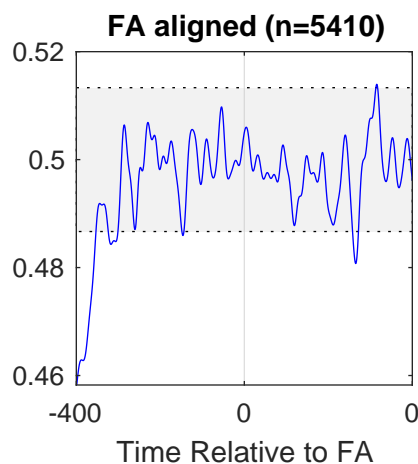
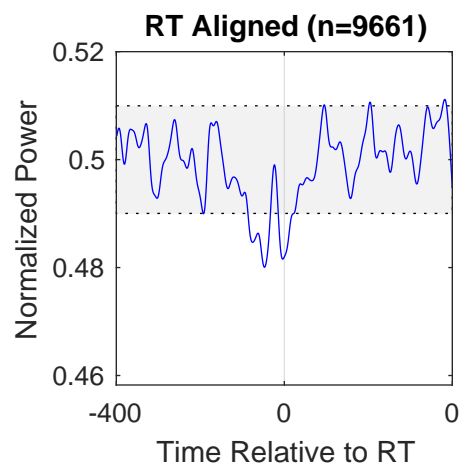
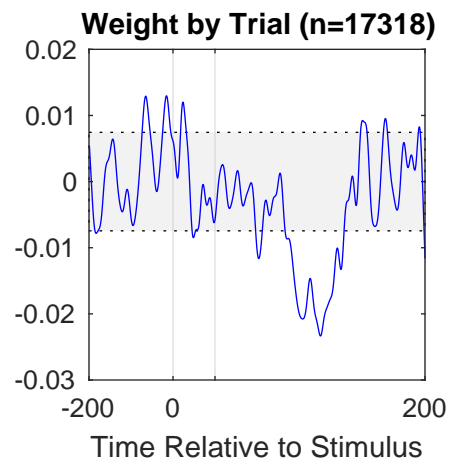
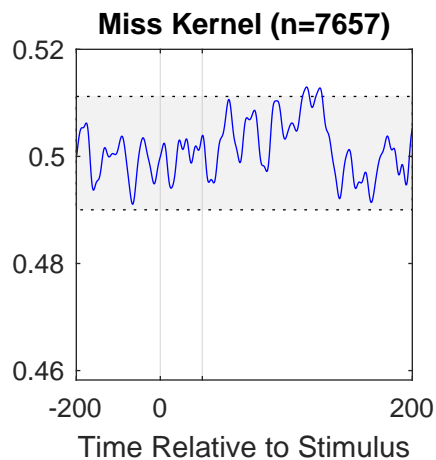
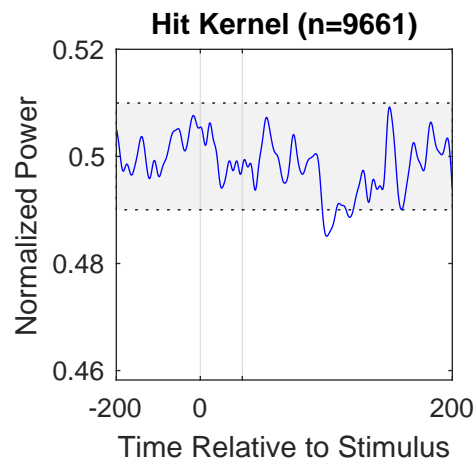
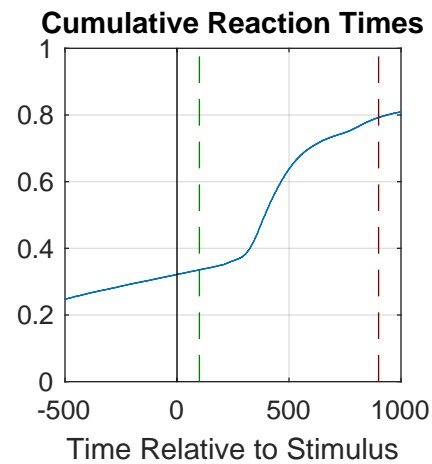
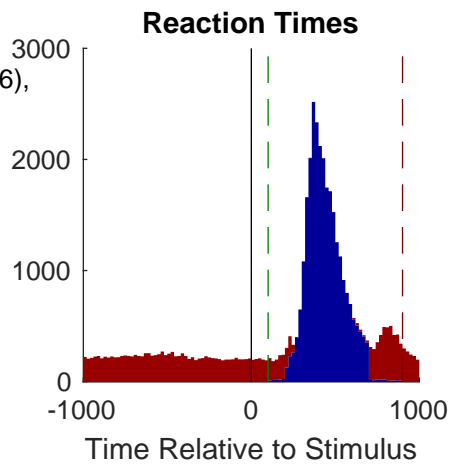


Stim-RT Aligned (n=12087)



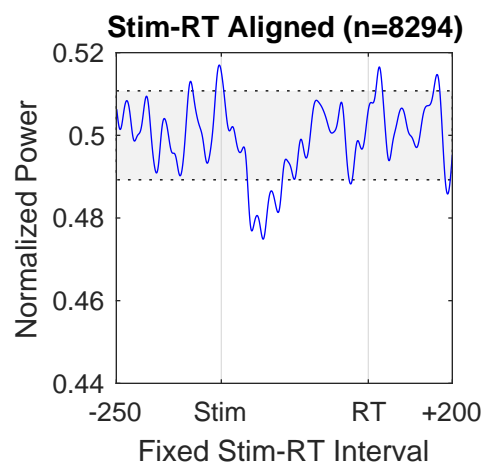
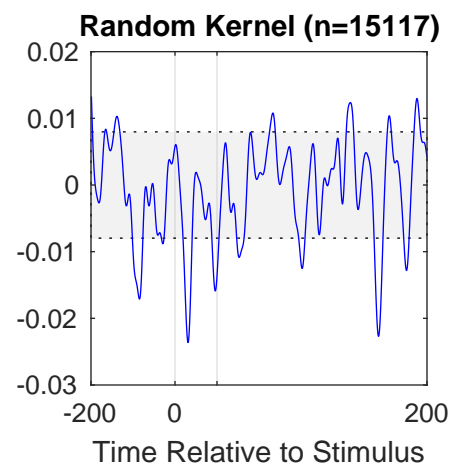
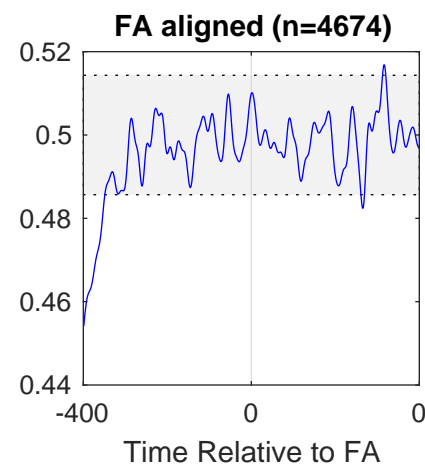
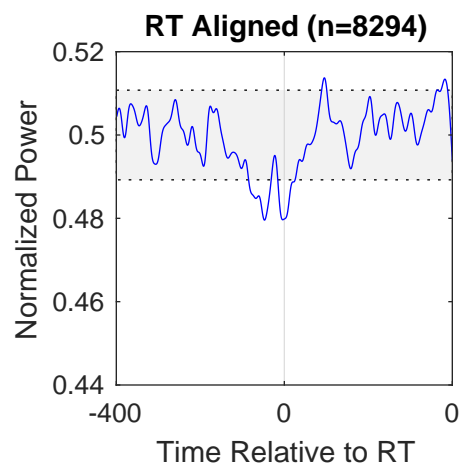
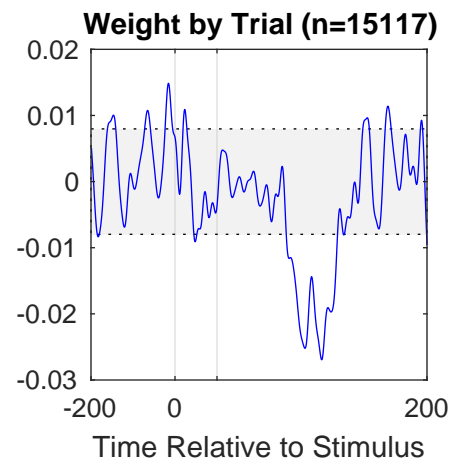
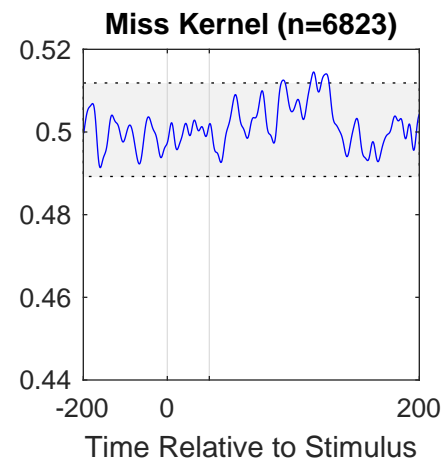
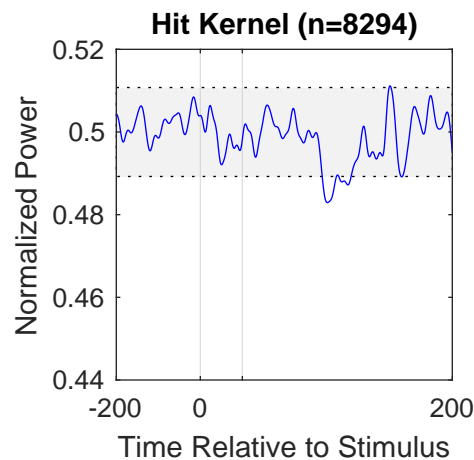
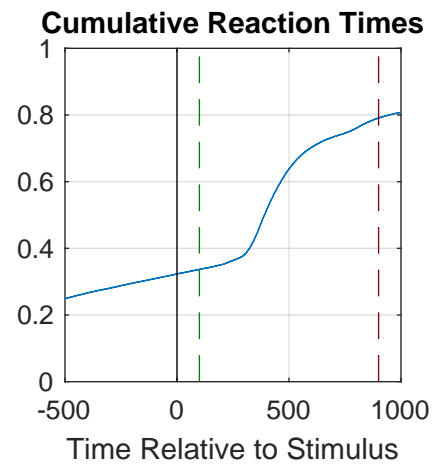
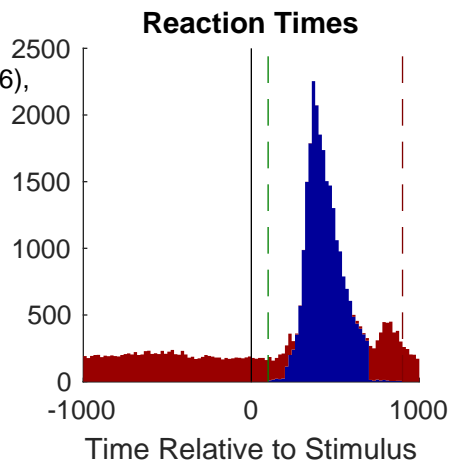
# OKernel

Visual Contrast Ramp 500 ms  
109 sessions from 4 animals  
1150 (44), 1218 (21), 1220 (18), 902 (26),  
10 trial minimum for hits/misses  
Delta d'  $\geq 0.05$   
Avg(SD) d' noStim: 1.55 (0.53)  
Avg(SD) d' stim: 1.24 (0.55)  
Avg(SD) delta d': 0.31 (0.23)



# OKernel

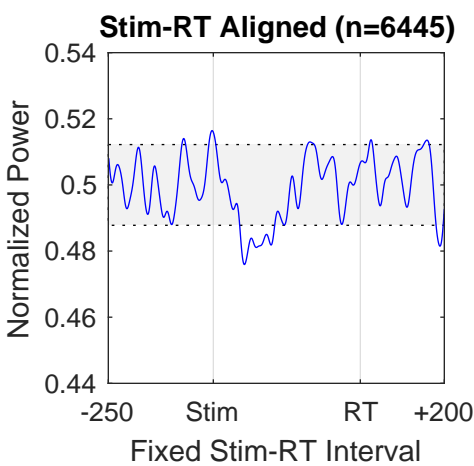
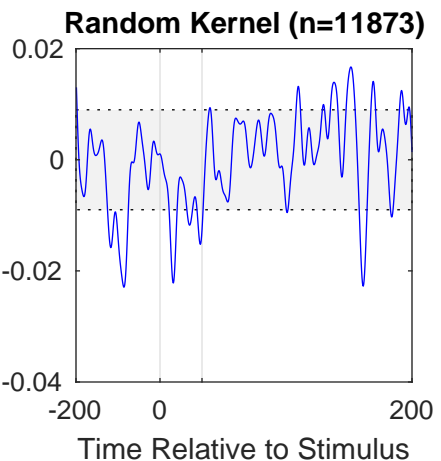
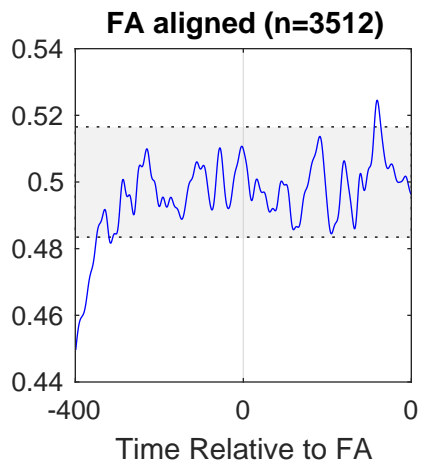
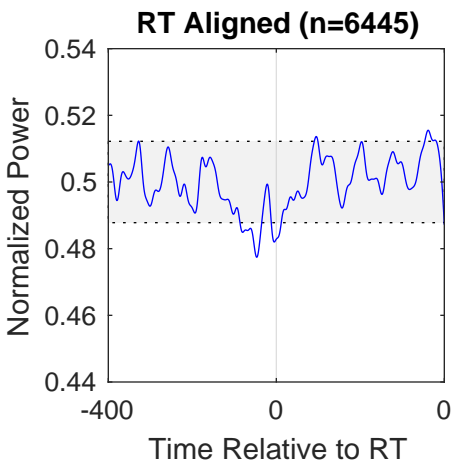
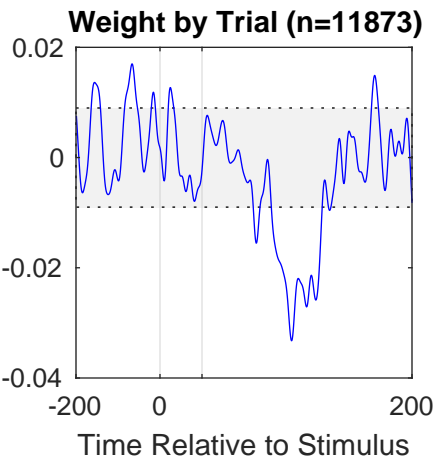
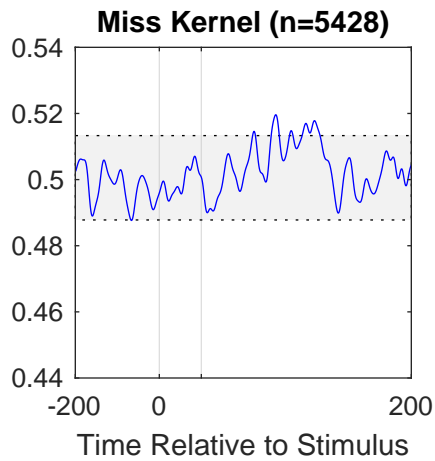
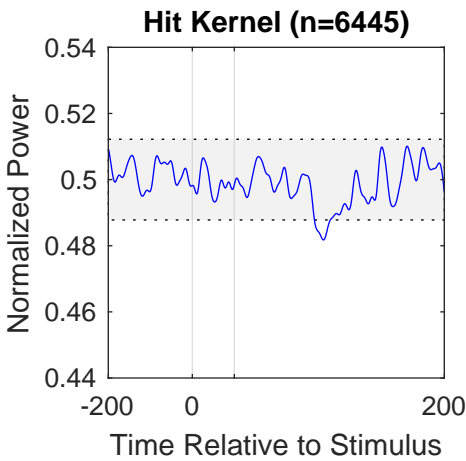
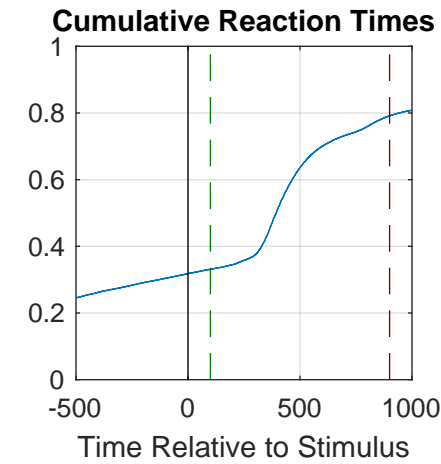
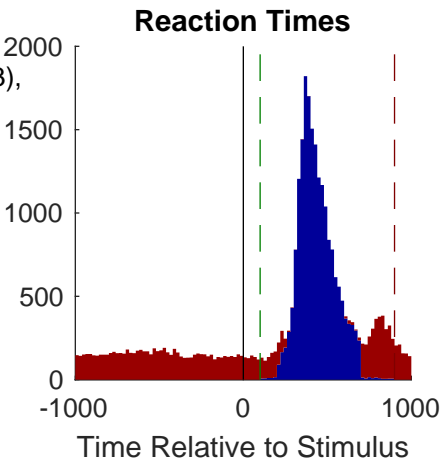
Visual Contrast Ramp 500 ms  
96 sessions from 4 animals  
1150 (37), 1218 (16), 1220 (17), 902 (26),  
10 trial minimum for hits/misses  
Delta d' >=0.10  
Avg(SD) d' noStim: 1.56 (0.55)  
Avg(SD) d' stim: 1.22 (0.57)  
Avg(SD) delta d': 0.34 (0.22)





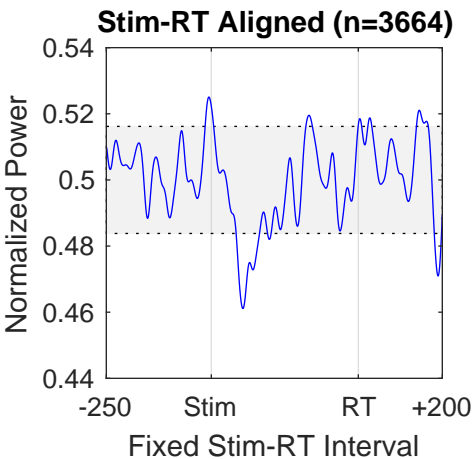
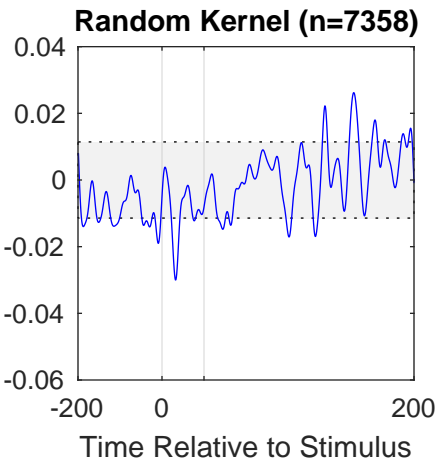
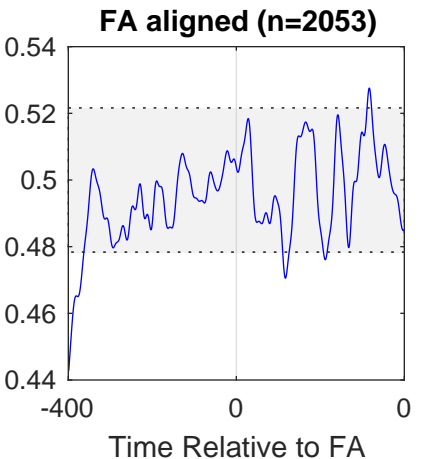
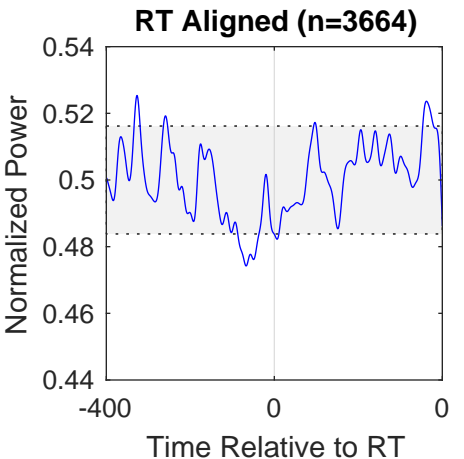
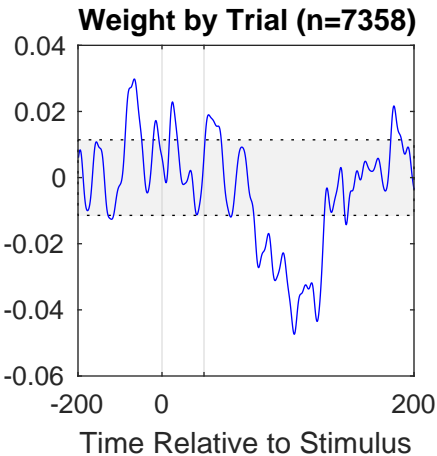
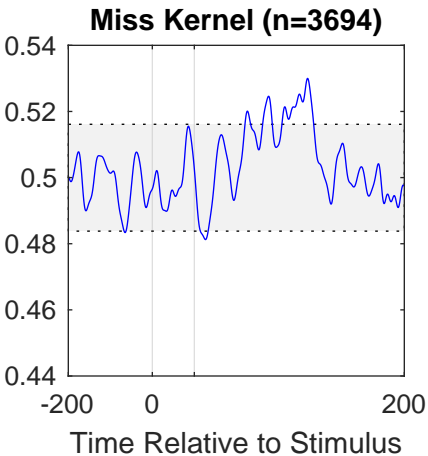
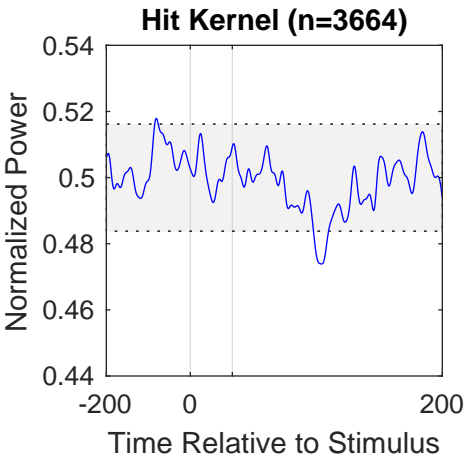
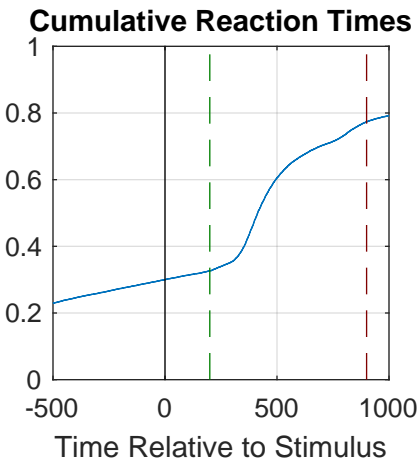
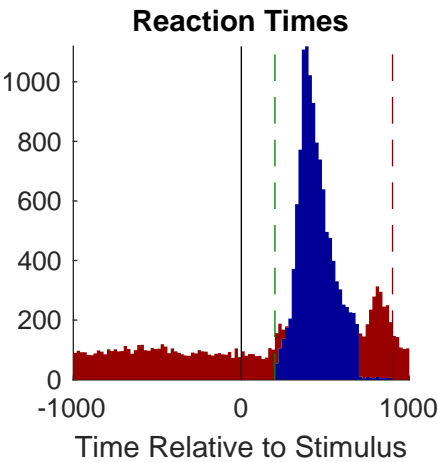
# OKernel

Visual Contrast Ramp 500 ms  
76 sessions from 4 animals  
1150 (29), 1218 (11), 1220 (13), 902 (23),  
10 trial minimum for hits/misses  
Delta d'  $\geq 0.15$   
Avg(SD) d' noStim: 1.58 (0.54)  
Avg(SD) d' stim: 1.17 (0.55)  
Avg(SD) delta d': 0.40 (0.21)



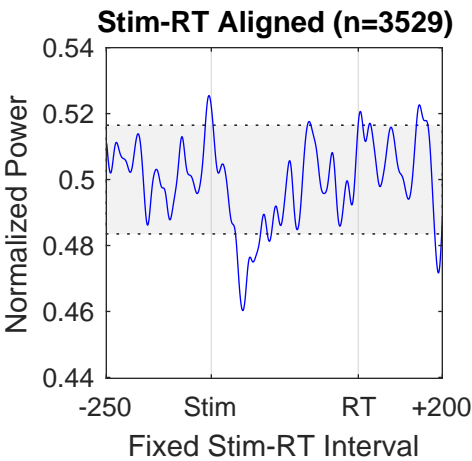
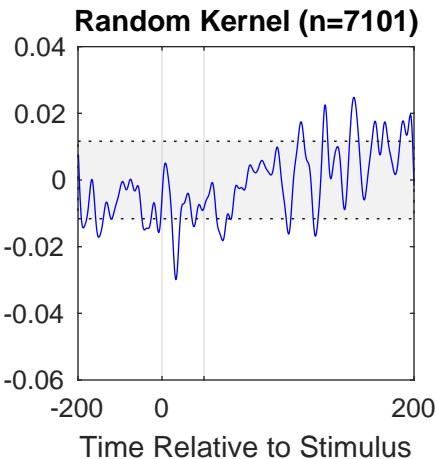
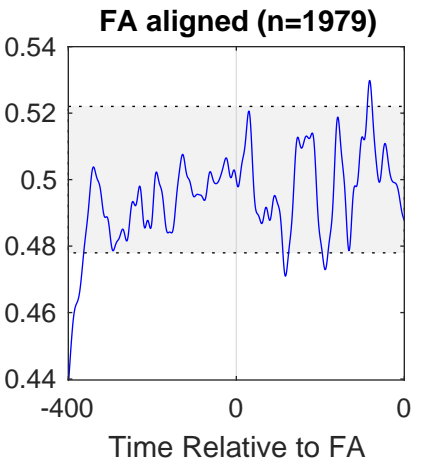
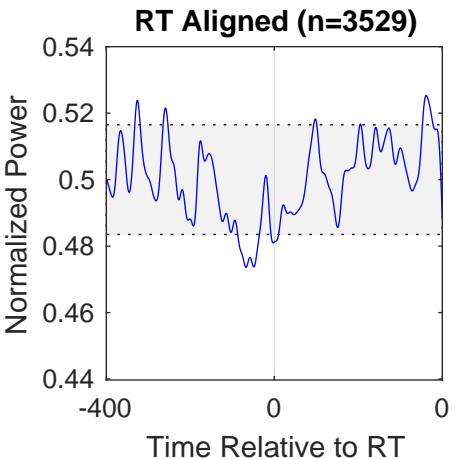
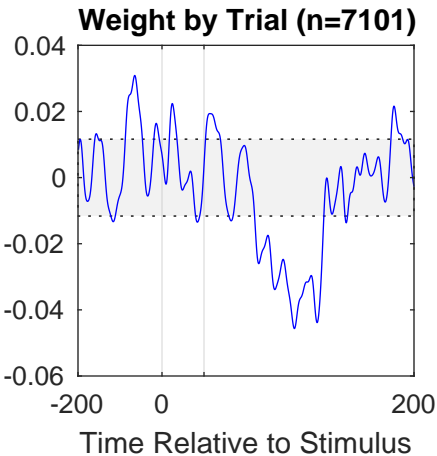
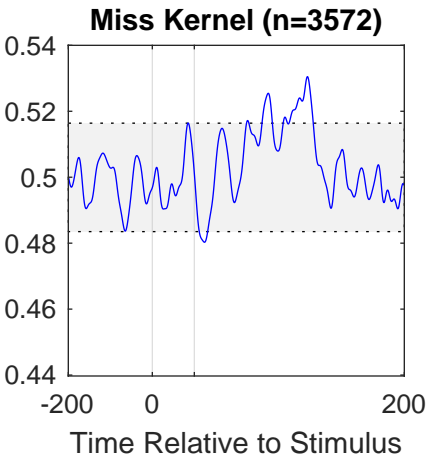
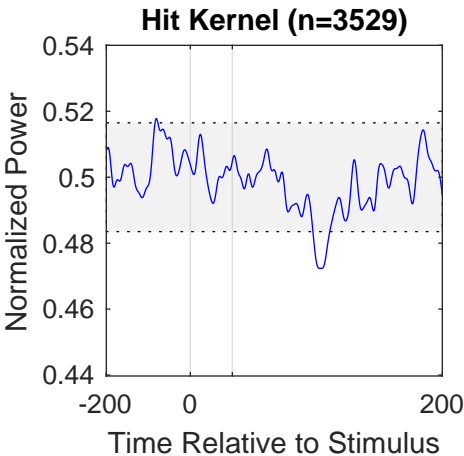
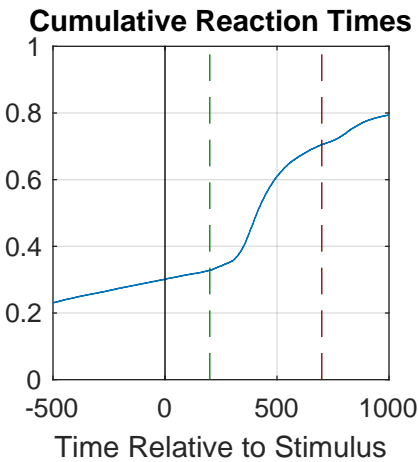
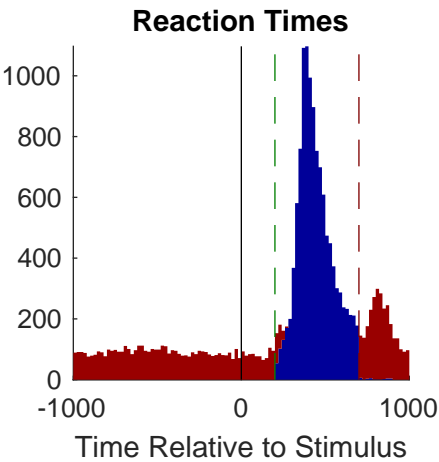
# OKernel

Visual Contrast Ramp 500 ms  
47 sessions from 2 animals  
1150 (24), 902 (23),  
10 trial minimum for hits/misses  
Delta d'  $\geq 0.20$   
Avg(SD) d' noStim: 1.43 (0.36)  
Avg(SD) d' stim: 0.94 (0.34)  
Avg(SD) delta d': 0.49 (0.21)



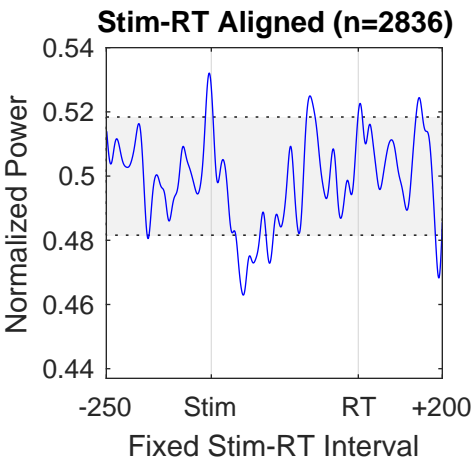
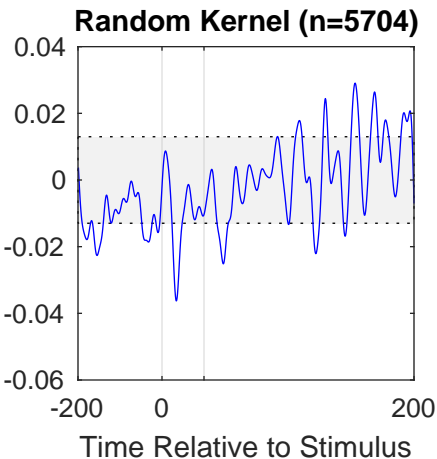
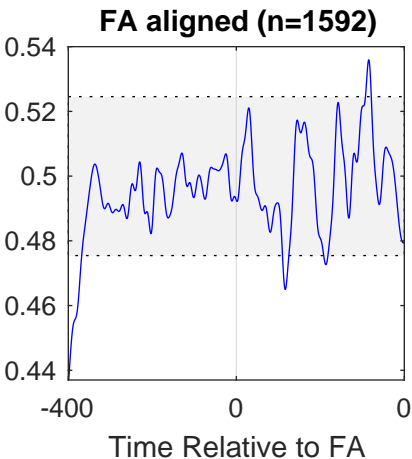
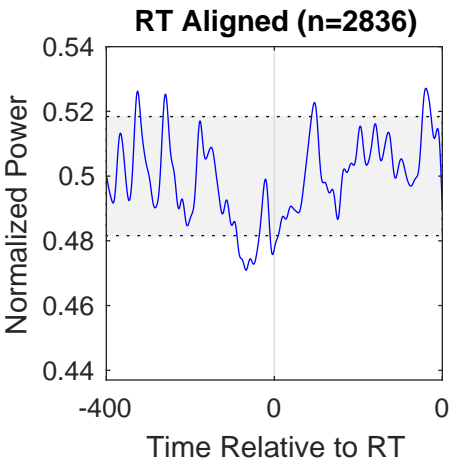
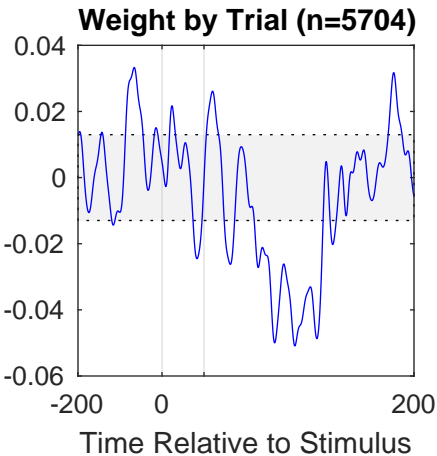
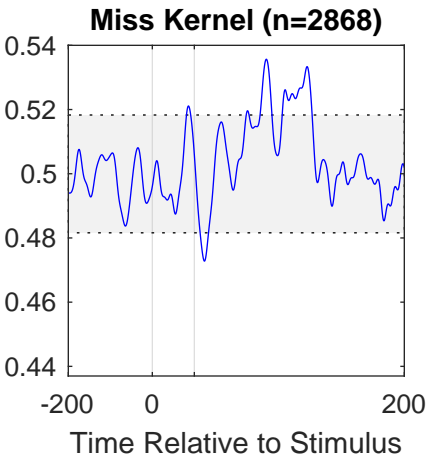
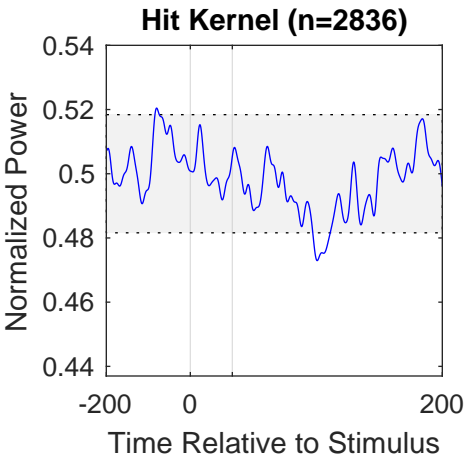
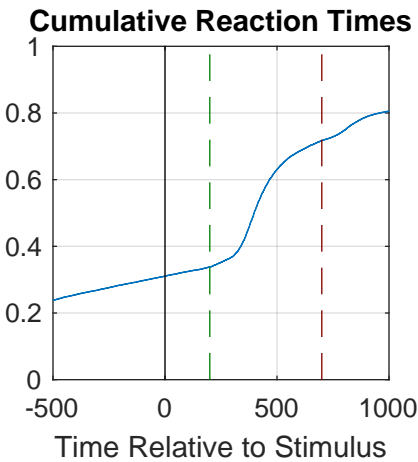
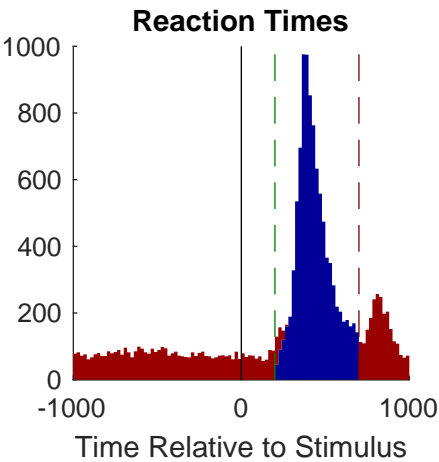
# OKernel

Visual Contrast Ramp 500 ms  
45 sessions from 2 animals  
1150 (22), 902 (23),  
10 trial minimum for hits/misses  
Delta d'  $\geq 0.25$   
Avg(SD) d' noStim: 1.44 (0.37)  
Avg(SD) d' stim: 0.94 (0.35)  
Avg(SD) delta d': 0.50 (0.21)



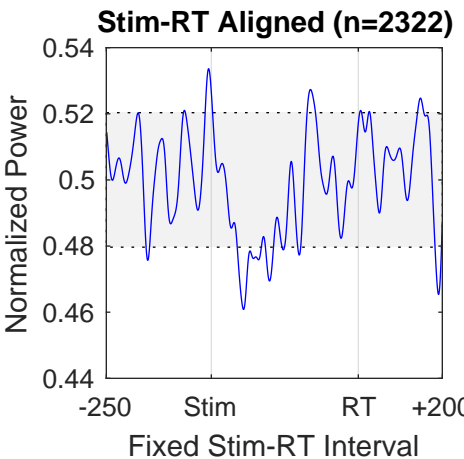
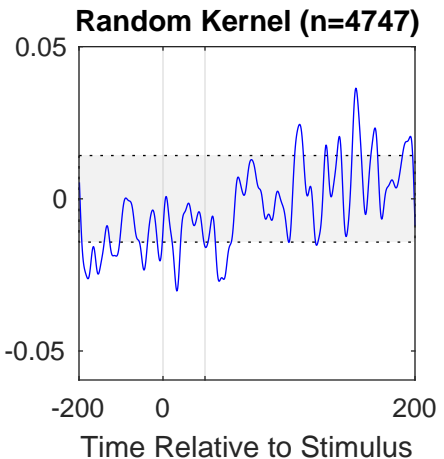
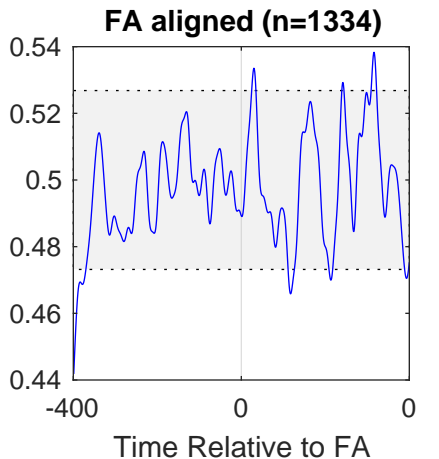
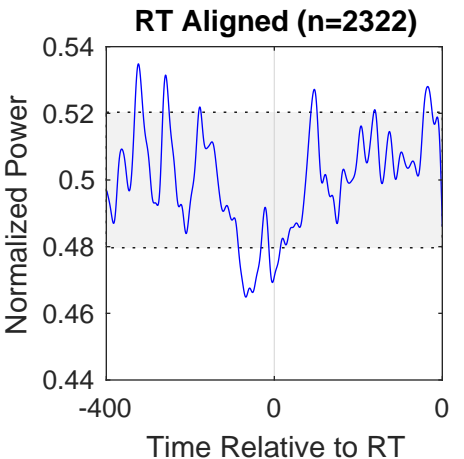
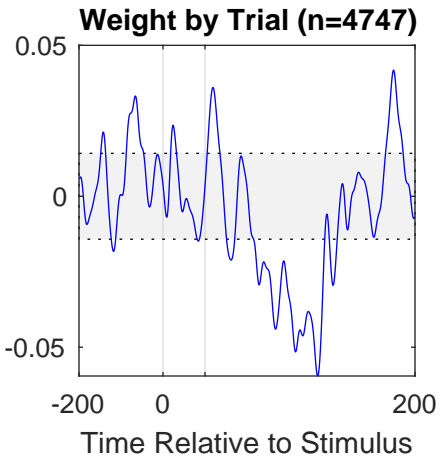
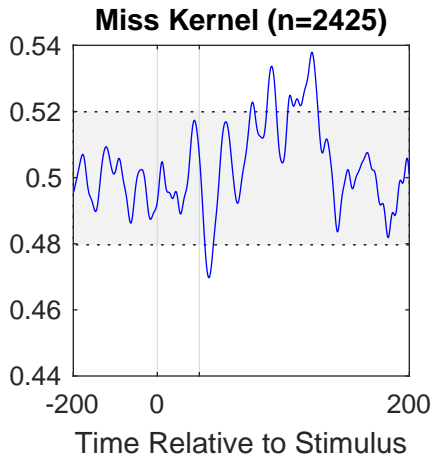
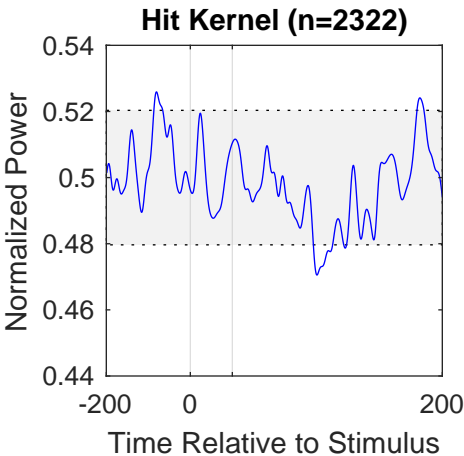
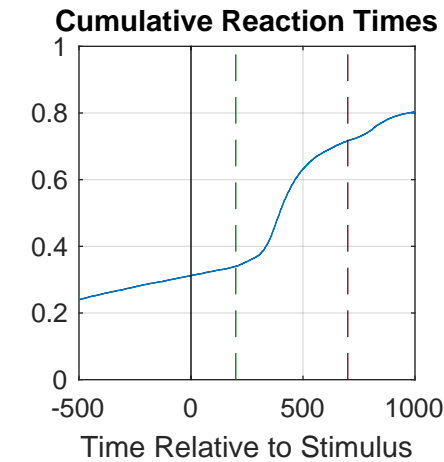
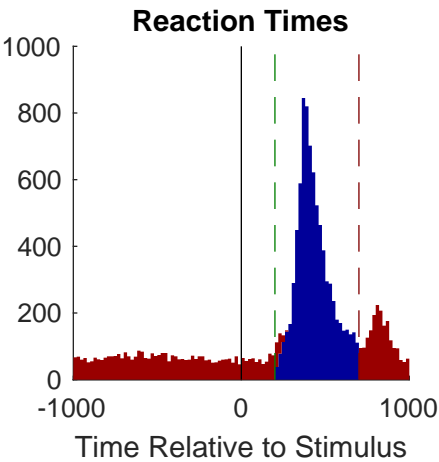
# OKernel

Visual Contrast Ramp 500 ms  
38 sessions from 2 animals  
1150 (16), 902 (22),  
10 trial minimum for hits/misses  
Delta d'  $\geq 0.30$   
Avg(SD) d' noStim: 1.49 (0.36)  
Avg(SD) d' stim: 0.94 (0.36)  
Avg(SD) delta d': 0.54 (0.20)



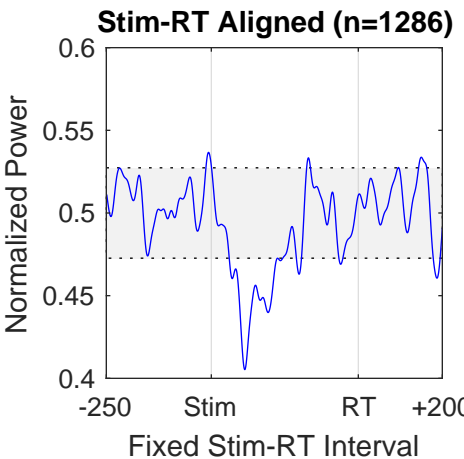
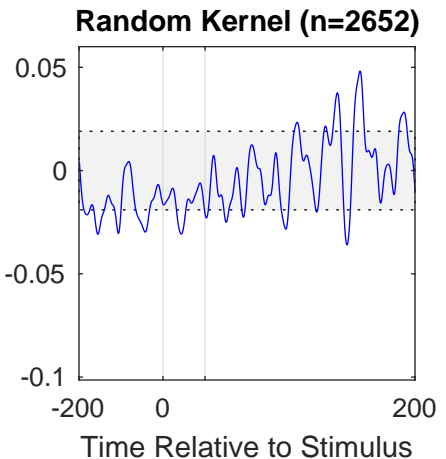
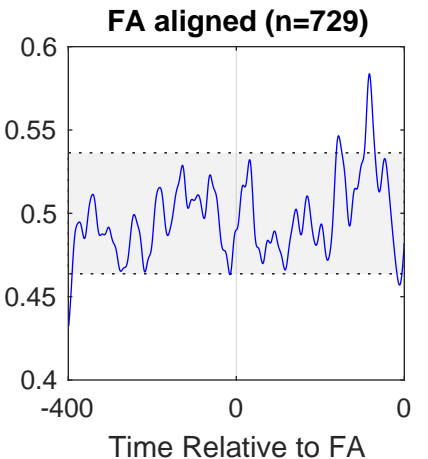
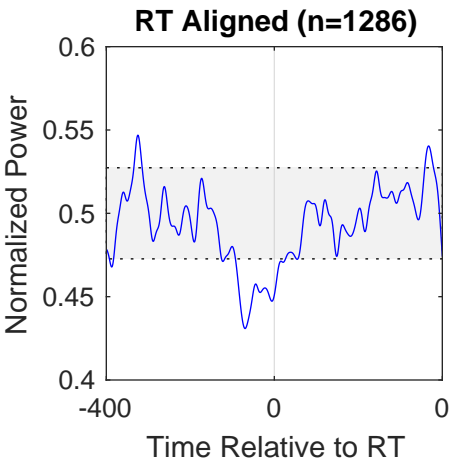
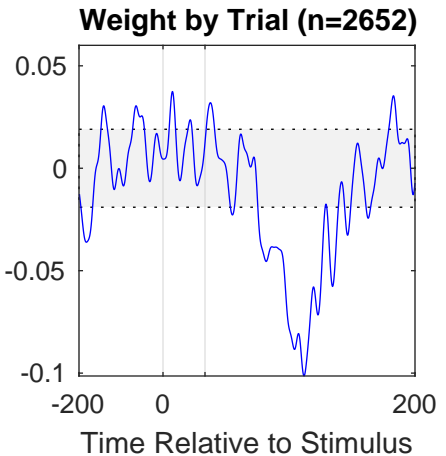
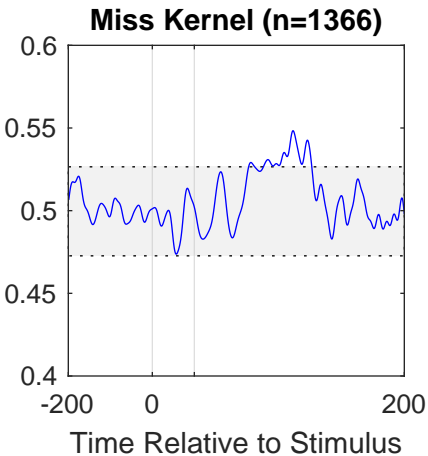
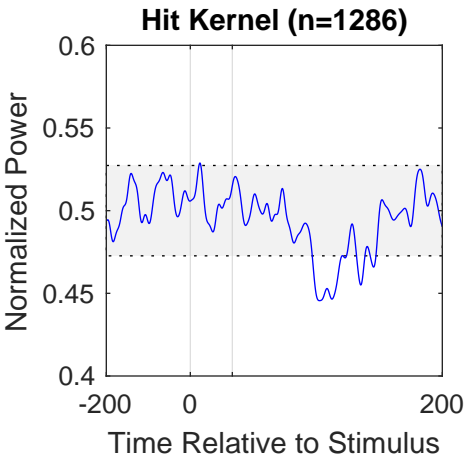
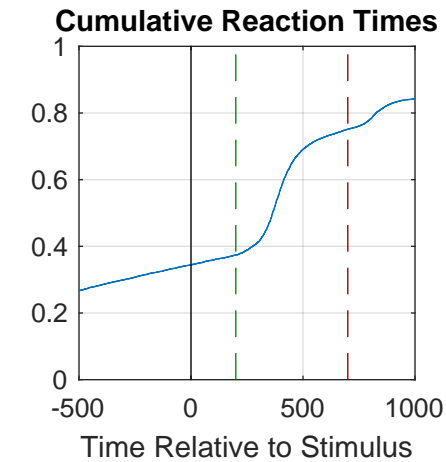
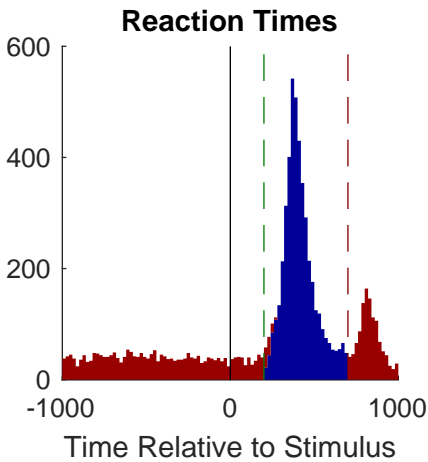
# OKernel

Visual Contrast Ramp 500 ms  
32 sessions from 2 animals  
1150 (13), 902 (19),  
10 trial minimum for hits/misses  
Delta d'  $\geq 0.35$   
Avg(SD) d' noStim: 1.50 (0.38)  
Avg(SD) d' stim: 0.92 (0.37)  
Avg(SD) delta d': 0.58 (0.19)



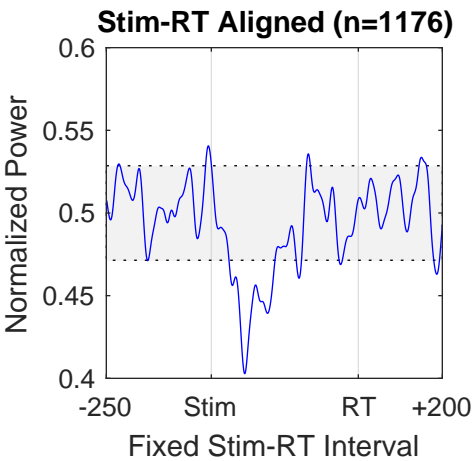
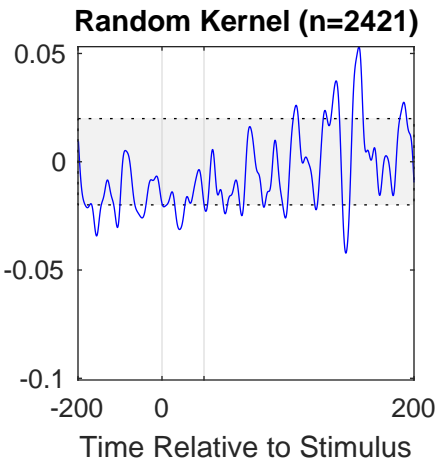
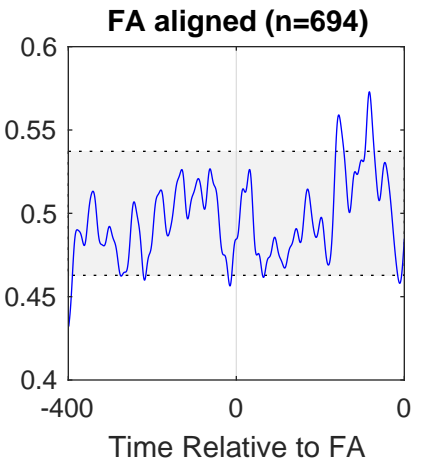
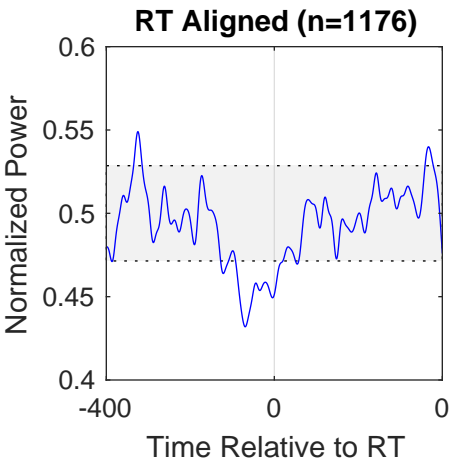
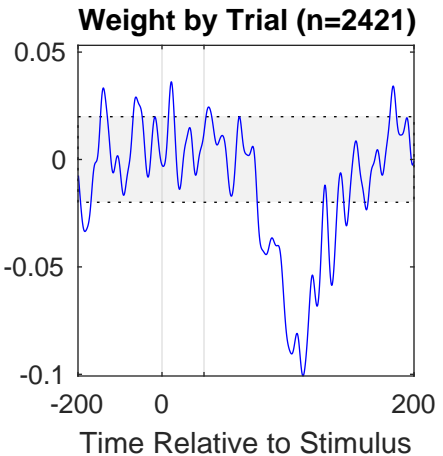
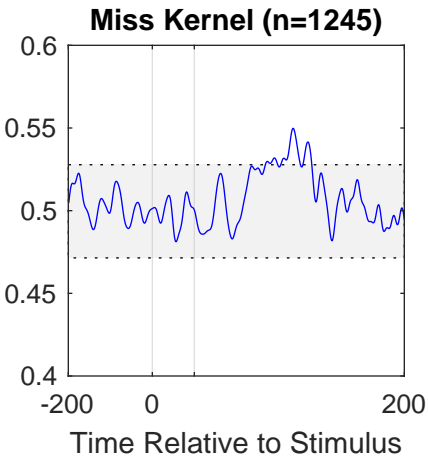
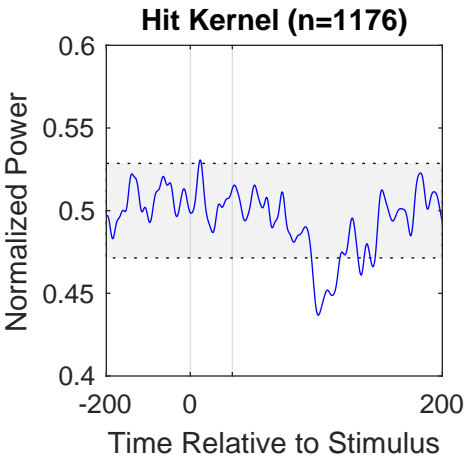
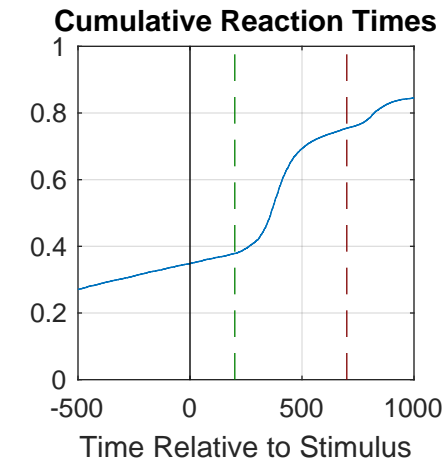
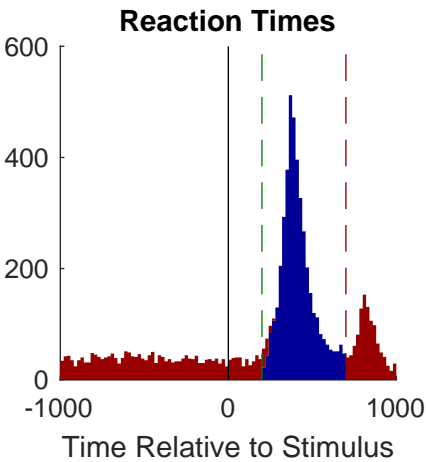
# OKernel

Visual Contrast Ramp 500 ms  
18 sessions from 1 animals  
902 (18),  
10 trial minimum for hits/misses  
Delta d' >=0.40  
Avg(SD) d' noStim: 1.59 (0.38)  
Avg(SD) d' stim: 0.89 (0.39)  
Avg(SD) delta d': 0.69 (0.19)



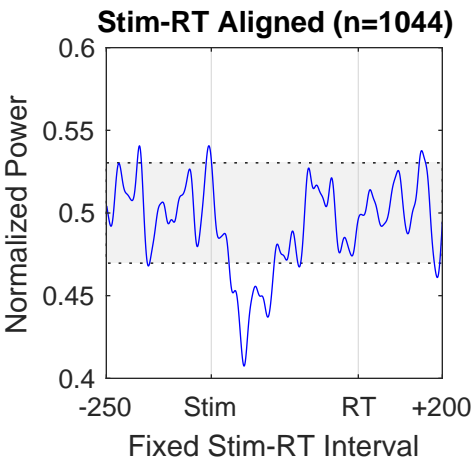
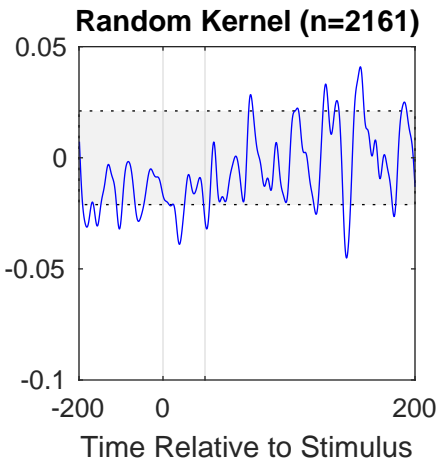
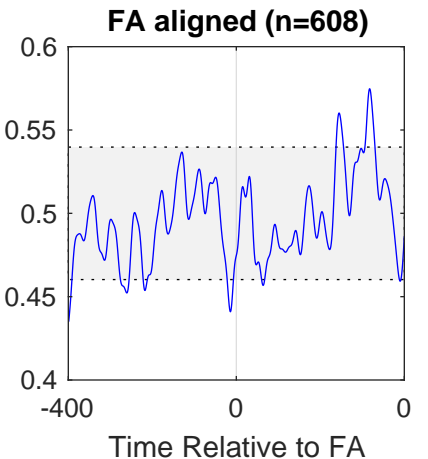
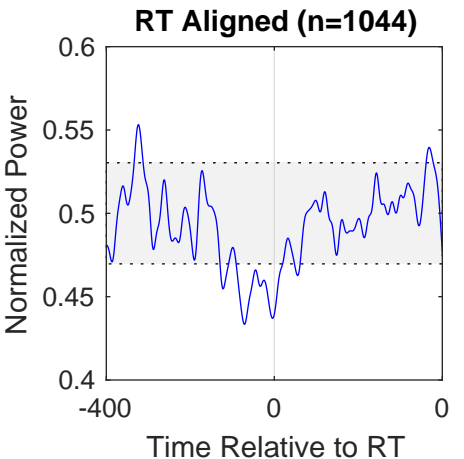
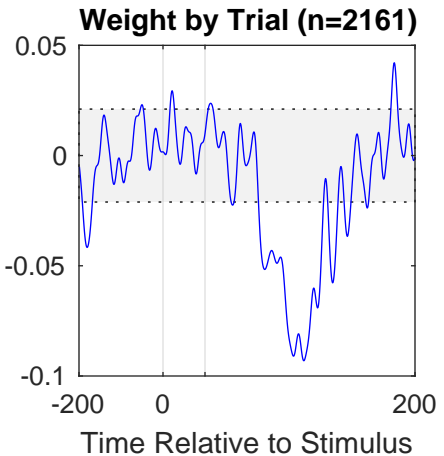
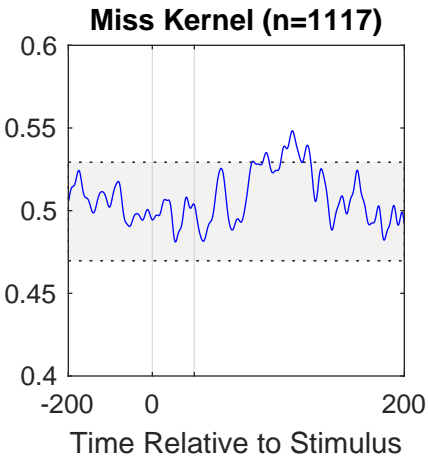
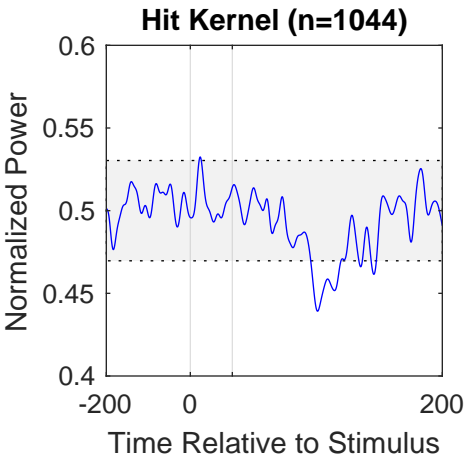
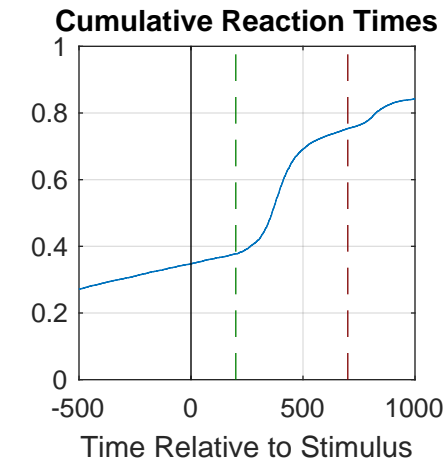
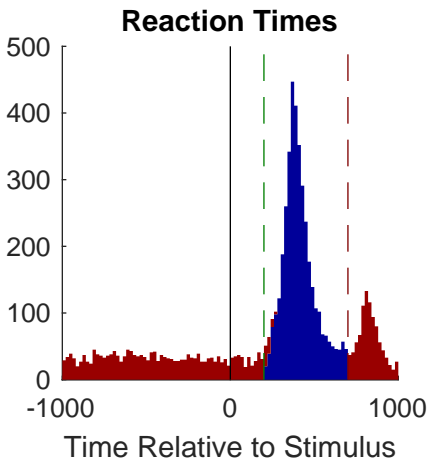
# OKernel

Visual Contrast Ramp 500 ms  
17 sessions from 1 animals  
902 (17),  
10 trial minimum for hits/misses  
Delta d' >=0.45  
Avg(SD) d' noStim: 1.58 (0.39)  
Avg(SD) d' stim: 0.87 (0.39)  
Avg(SD) delta d': 0.71 (0.18)



# OKernel

Visual Contrast Ramp 500 ms  
15 sessions from 1 animals  
902 (15),  
10 trial minimum for hits/misses  
Delta d' >=0.50  
Avg(SD) d' noStim: 1.59 (0.41)  
Avg(SD) d' stim: 0.85 (0.40)  
Avg(SD) delta d': 0.74 (0.17)





# OKernel

Visual Stimulus Ramp 500 ms

24 sessions from 6 animals  
0 trial minimum for hits/misses  
 $\Delta d' \geq 0.50$

Hit rate no stim 0.665 (SE 0.006)  
stim 0.478 (SE 0.009)  
FA rate no stim 0.387 (SE 0.005)  
stim 0.281 (SE 0.008)  
Kernel peak at 8.6 sigma

