

## NEURAL RESPONSES

CONSIDER THE DATA FROM  
A NEURON AT A TIME



DO A RANDOM WALK THROUGH  
THE STIMULUS EVENT TIMES



EXTRACT THE PRE-STIMULUS  
AND POST-STIMULUS SPIKE  
TIMES FOR EACH EVENT TIME  
USING A PRE-DEFINED TIME  
WINDOW)



CALCULATE THE PRE AND  
POST STIMULUS FIRING RATES

FROM THE SPIKE TIMES



DO A PAIRED T-TEST BETWEEN  
THE PRE AND POST FIRING  
RATES



REPEAT FOR ALL NEURONS