

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 SPKE
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