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Question 1

| With no refractory period	
Fano factor (over windows of width 10 ms)	1.0028309352517986
Fano factor (over windows of width 50 ms)	1.0014352517985612
Fano factor (over windows of width 100 ms)	1.0059208633093526
Coefficient of variation	1.0057825931561222

With a refractory period of 5ms	
Fano factor (over windows of width 10 ms)	0.7478558033161806
Fano factor (over windows of width 50 ms)	0.6995991995425956
Fano factor (over windows of width 100 ms)	0.6827890222984563
Coefficient of variation	0.8203865805279734

Question 2

A fly H1 neuro	
Fano factor (over windows of width 10 ms)	1.1198442813566911
Fano factor (over windows of width 50 ms)	2.9333009948508413
Fano factor (over windows of width 100 ms)	4.107101234118765
Coefficient of variation	2.0085523370640965

Question 3

The spike triggered average over a 100ms window

Question 4

Autocorrelation
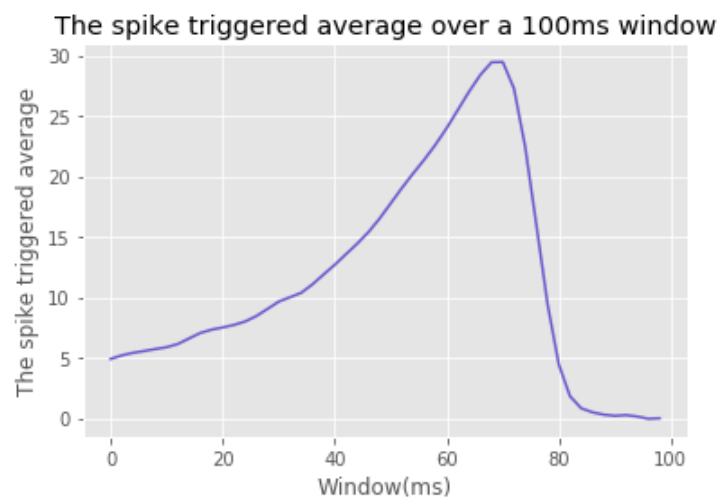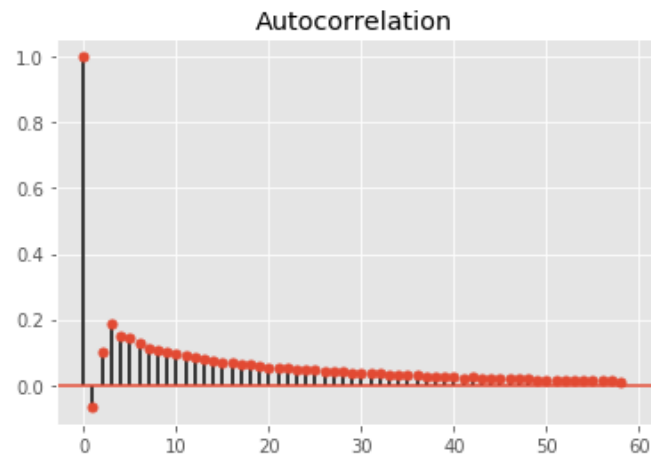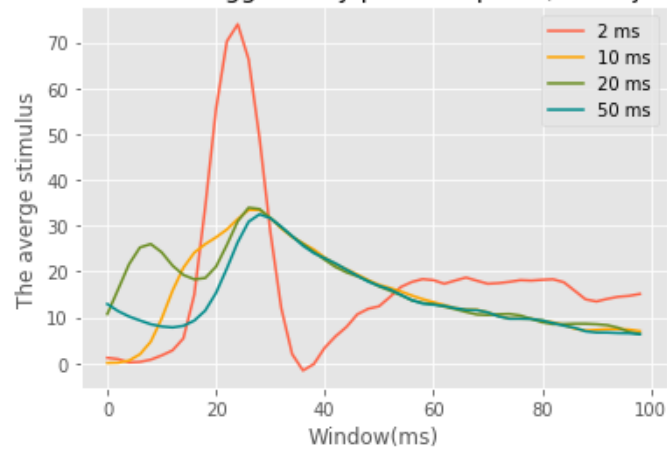

COMS2127

Where the spikes are not necessarily adjacent

The stimulus triggered by pairs of spikes(not adjacent)

Where the spikes are necessarily adjacent

The stimulus triggered by pairs of spikes(adjacent)