Question 1

(code in poisson.py)

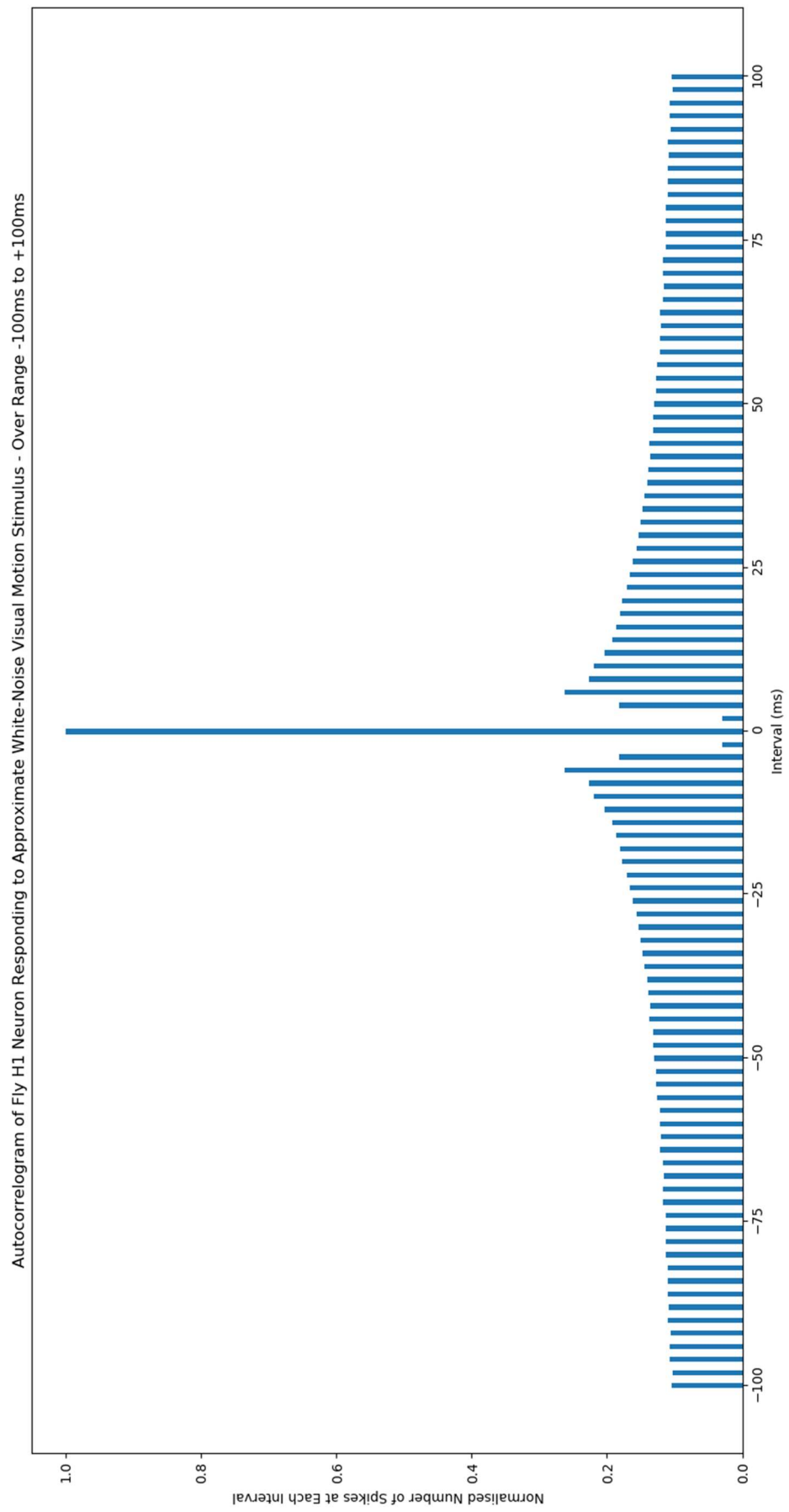| Firing rate in Hz	Refractory Period in ms	Seconds of Spike Train in seconds	Window Width in ms	Fano Factor
35	0	1000	10	0.9949
35	0	1000	50	0.9852
35	0	1000	100	1.0182
35	5	1000	10	0.7478
35	5	1000	50	0.6775
35	5	1000	100	0.6821

Coefficient of Variation with 0ms refractory period = 0.9974

Coefficient of Variation with 5ms refractory period = 0.8195

Question 2

(code in poisson.py)

Window Width in ms	Fano Factor
10	1.1177
50	2.9175
100	4.0836

Coefficient of Variation = 2.0085

Question 3 (code in load.py)

Autocorrelogram of Fly H1 Neuron Responding to Approximate White-Noise Visual Motion Stimulus - Over Range -100ms to +100ms

Question 4 (code in load.py)

Spike Triggered Average Over a 100ms Window for Fly H1 Neuron Responding to Approximate White-Noise Visual Motion Stimulus