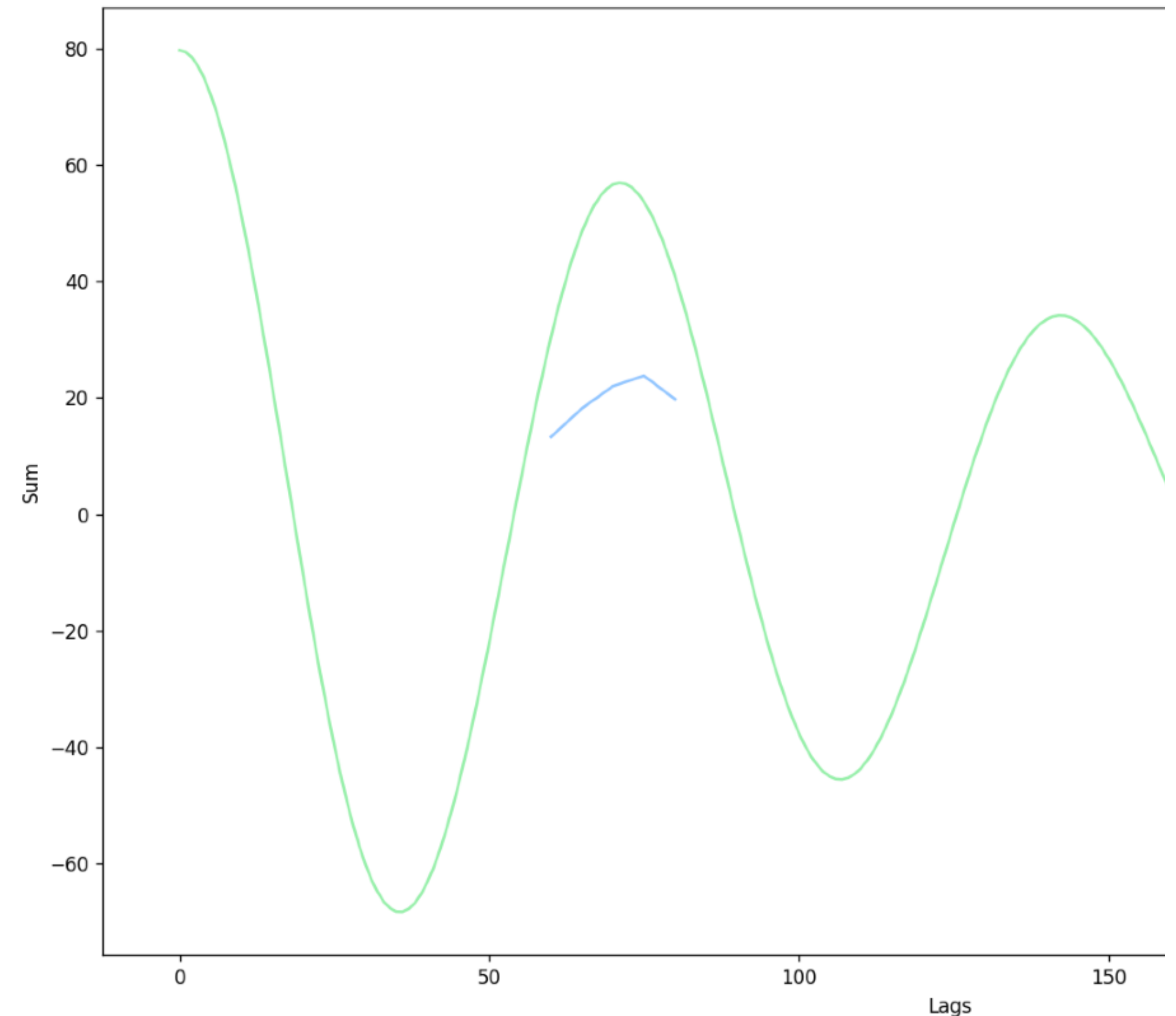


Auto-correlation

For Pitch Detection

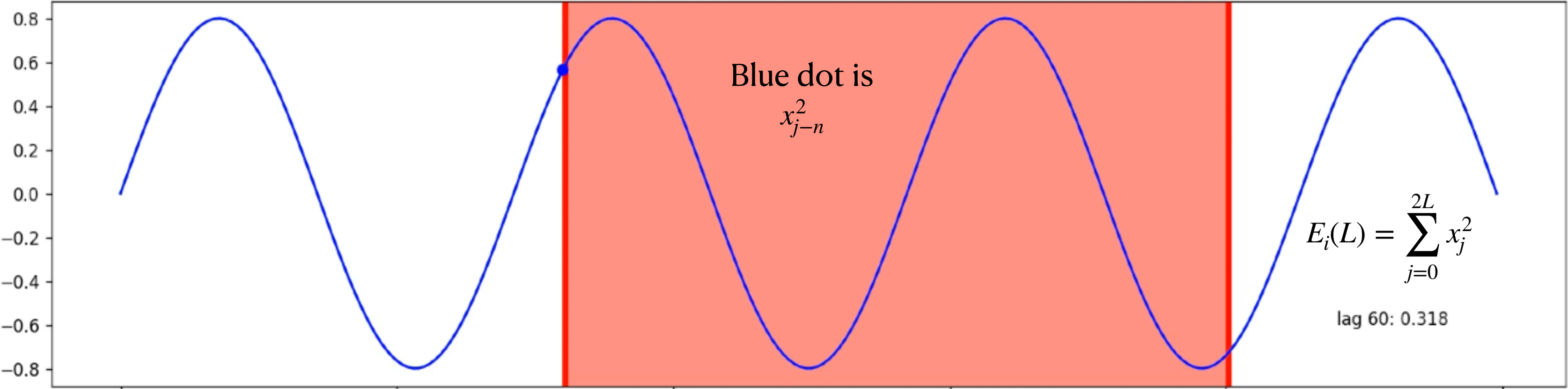
- Always a peak at zero! (think about why)
- Next peak after zero is usually the one we choose
- Peak lag is the **period** of the current pitch for that frame in samples
- To get the frequency/pitch in hertz (Hz) we divide the sample rate by the period
- Peak picking on real data is challenging



Average Squared Difference Function

i=200
(Current time)

← 2 x lag (n) →



0.499

