Extra video

- Auto correlograms.

- Cross correlograms

Video: https://mediasite.bris.ac.uk/Mediasite/Play/47f048c1ac2145bda2b7ec0063d7fd741d

Julia code: https://github.com/coms30127/2019_20/blob/master/notes/correlograms/correlograms.jl

Auto correlogram

- The auto-correlogram (sometimes called autocorrelation function) is a statistical summary of a signal that shows us any relationships between a time-series signal at different time lags.

- It is most commonly used to look for periodicity or rhythmicity.

- In neuroscience the signal of interest is usually a spike train.

Cross correlogram

- The cross-correlogram (sometimes called crosscorrelation function) is much like the auto-correlogram, but instead of comparing a signal with itself, we compare two signals at different time lags.

- It is used to detect temporal ordering between signals, for example signal A may lead signal B.