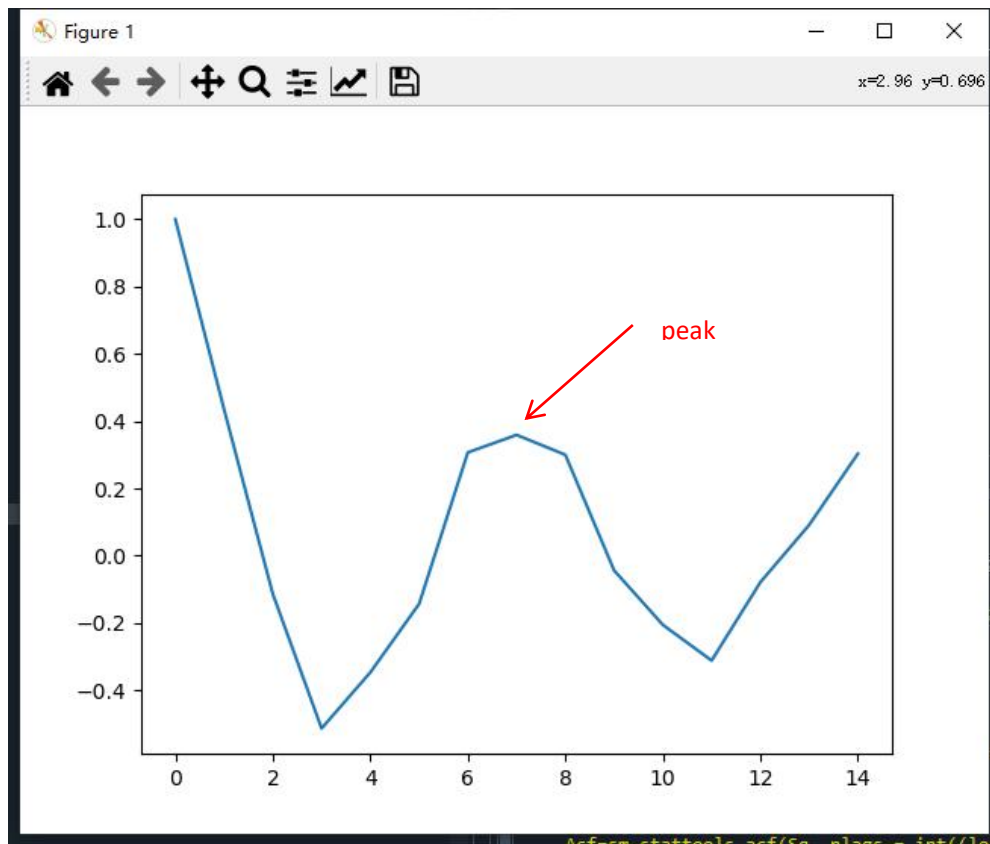


# Mice Scratch

Siheng Yi  
20220905

## Choose parameters

delay\_num : autocorrelation

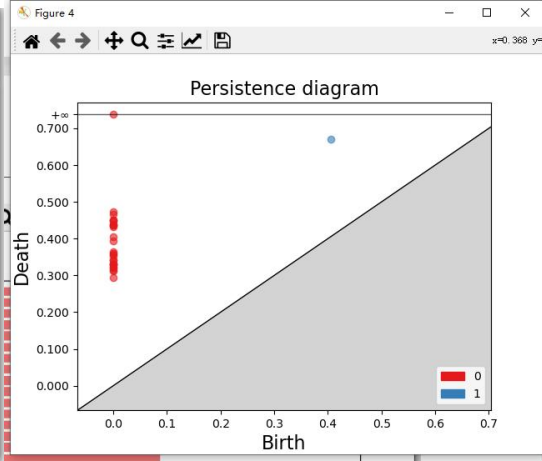
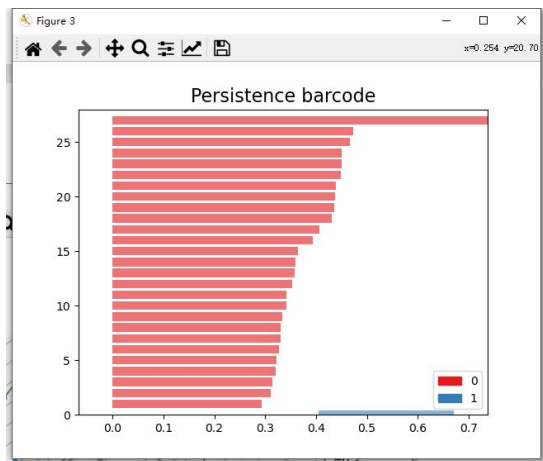
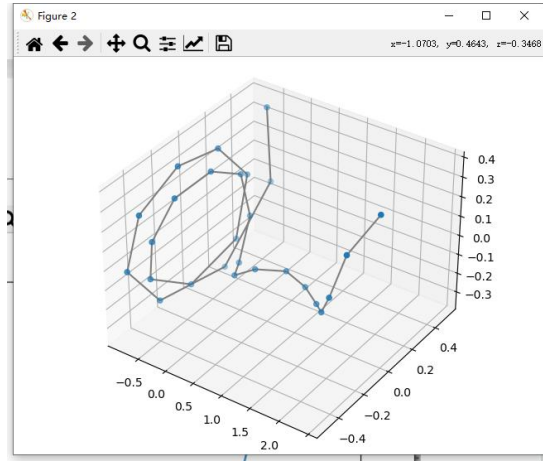
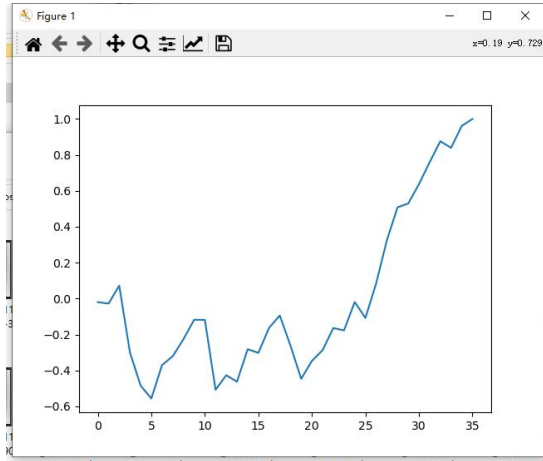


dim : 10

# Example

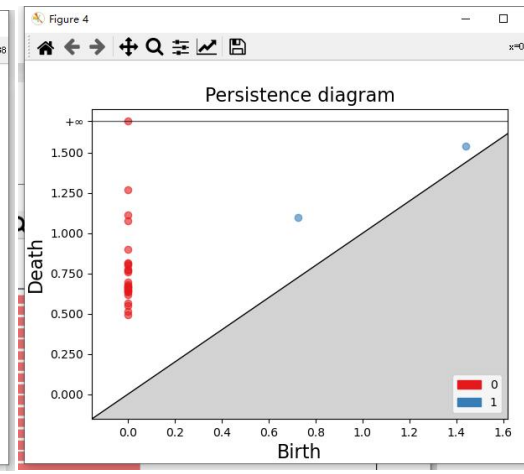
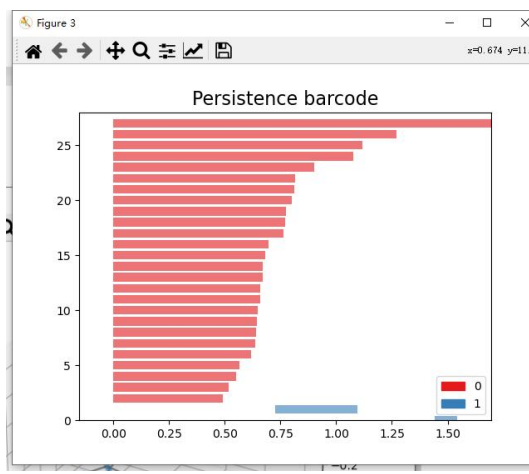
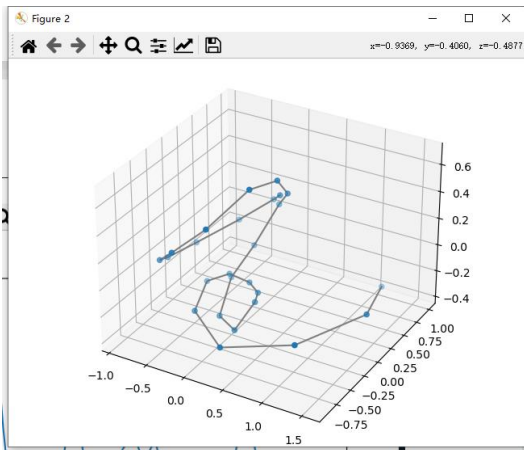
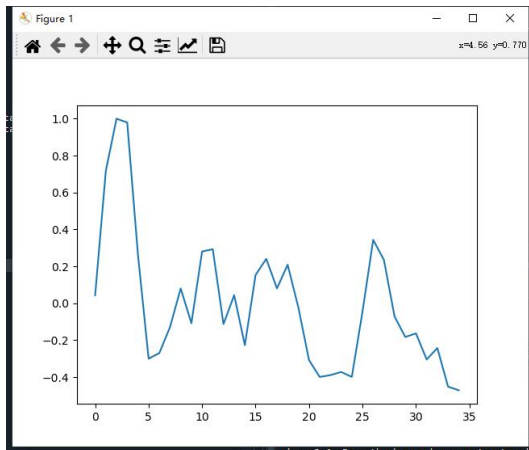
positive\\202206020911-0\_00-5-2866-2901.mkv

Not frame differencing



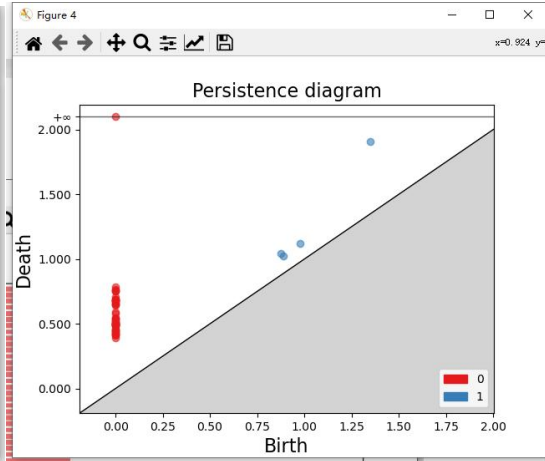
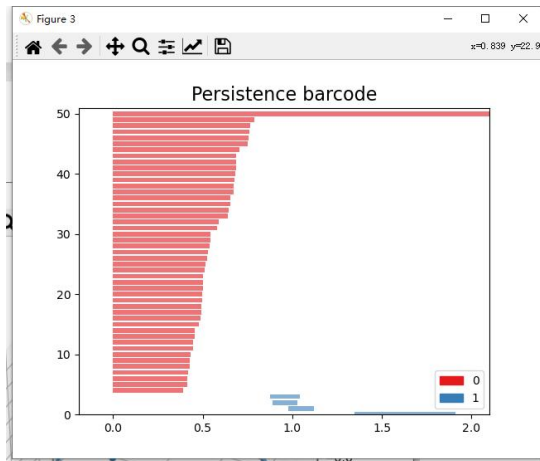
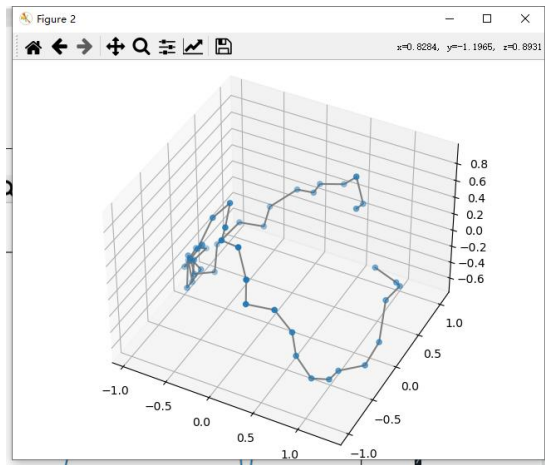
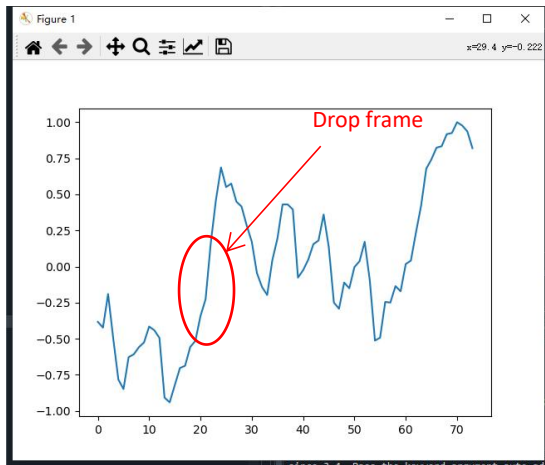
frame differencing





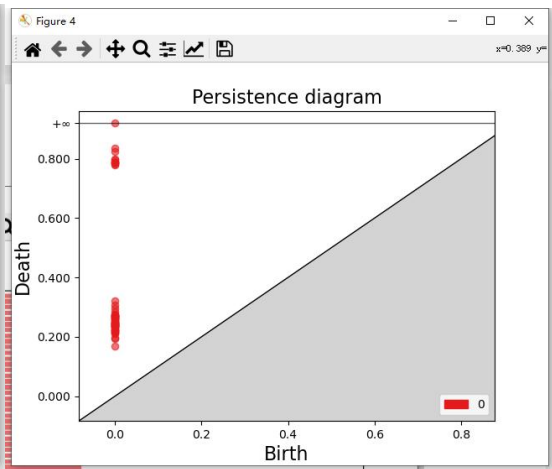
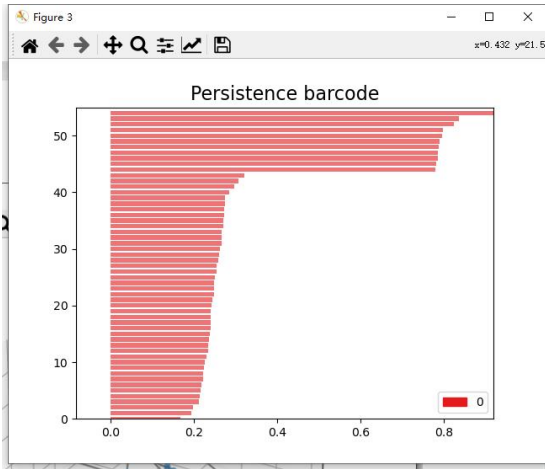
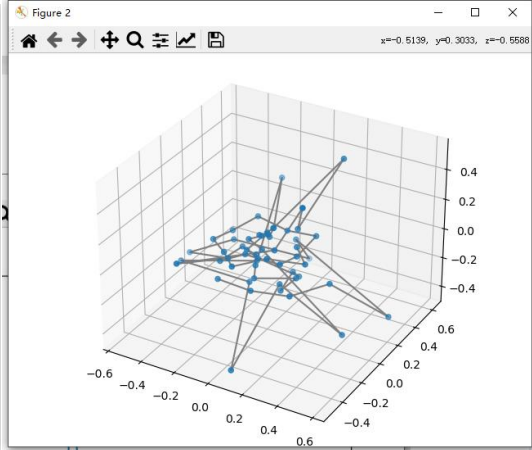
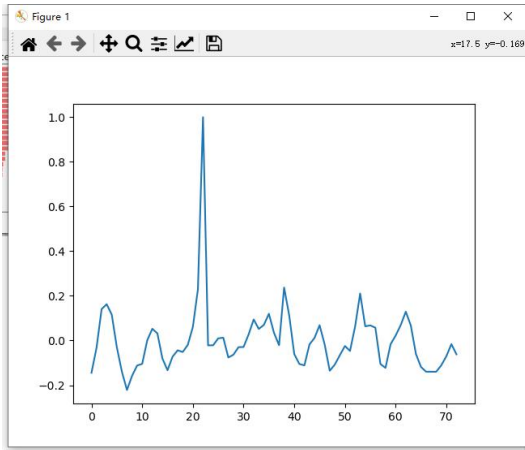
positive\\202206020911-0\_00-6-2935-3008.mkv

Not frame differencing



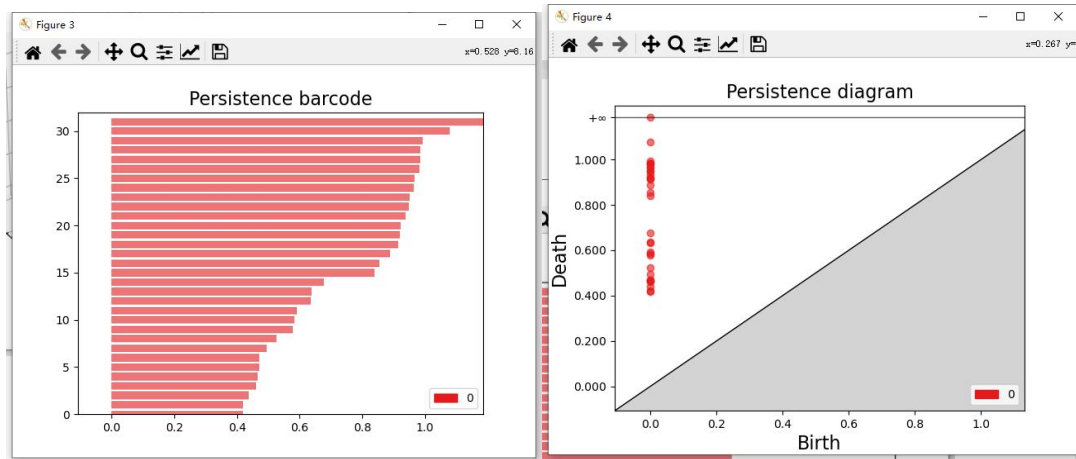
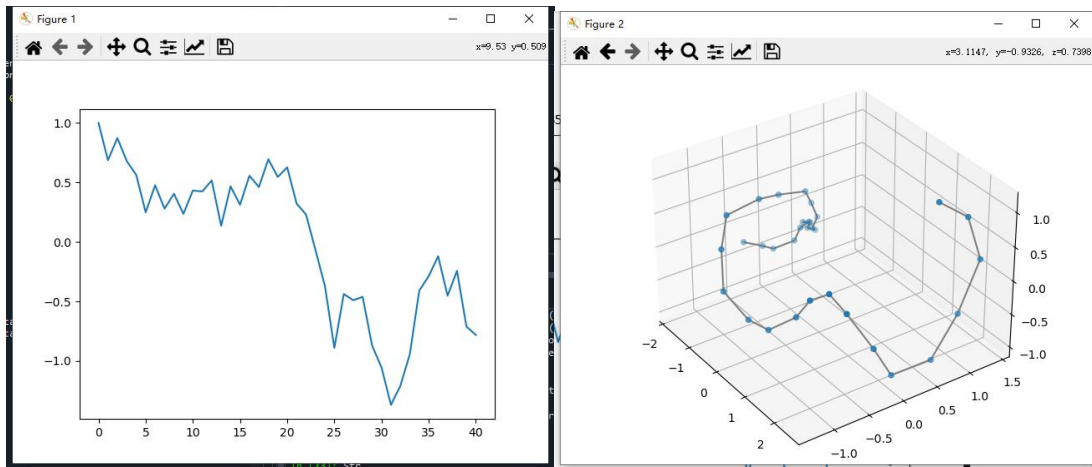
frame differencing





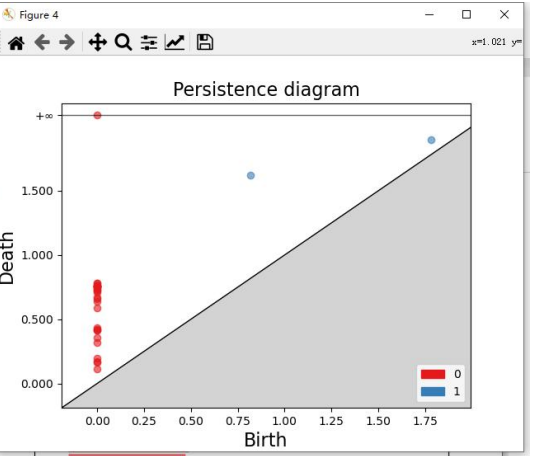
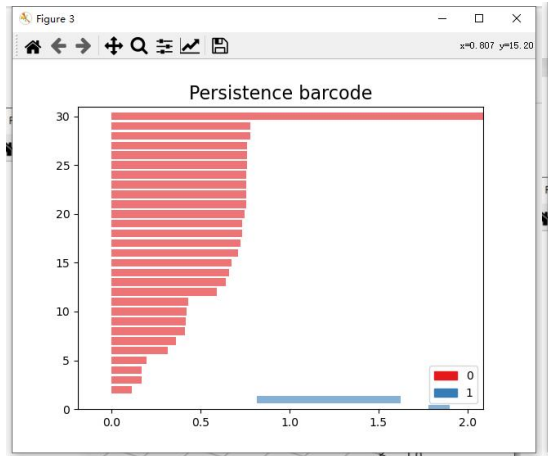
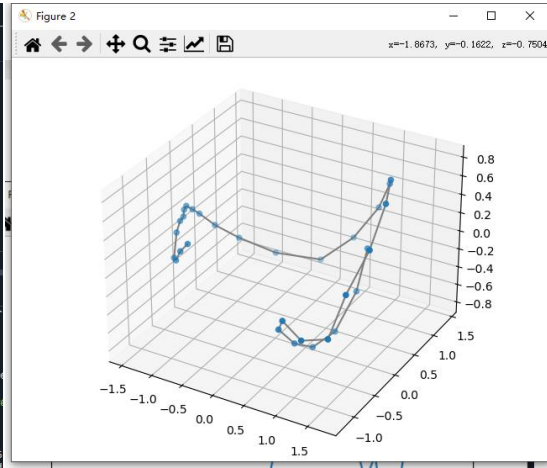
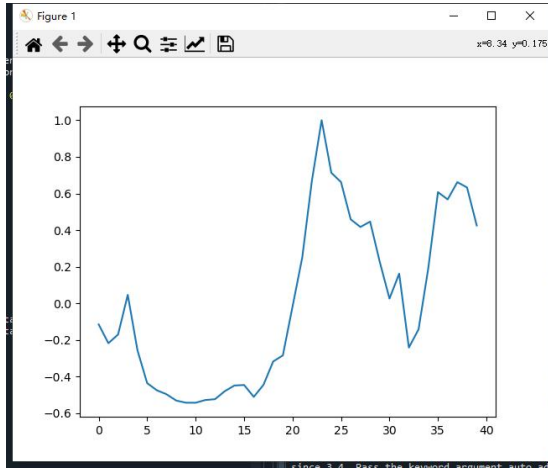
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Not frame differencing



frame differencing

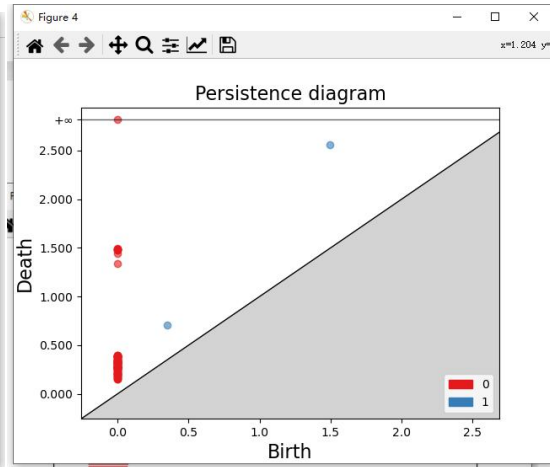
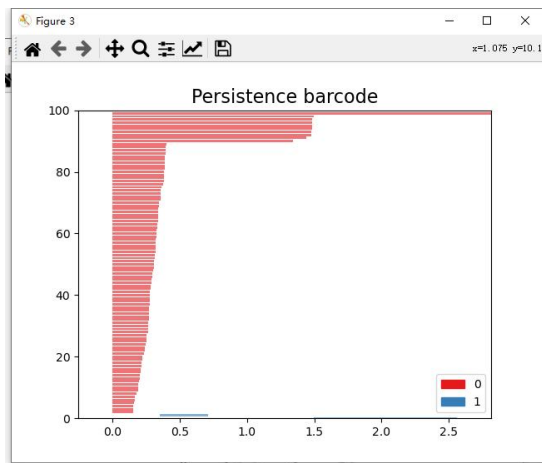
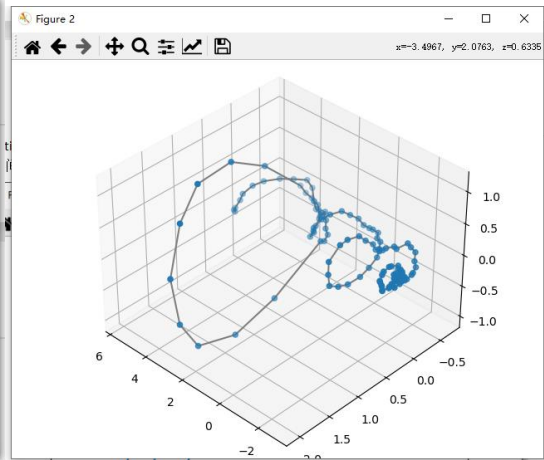
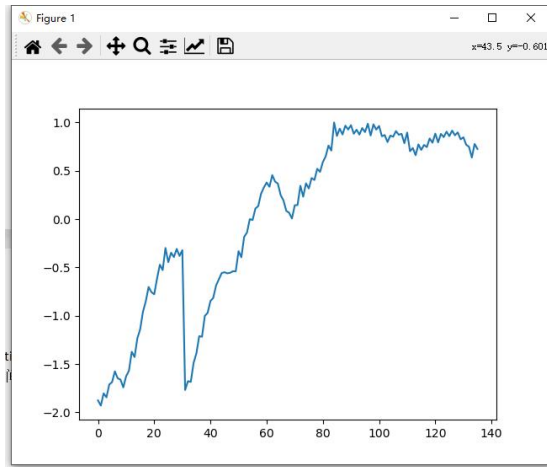






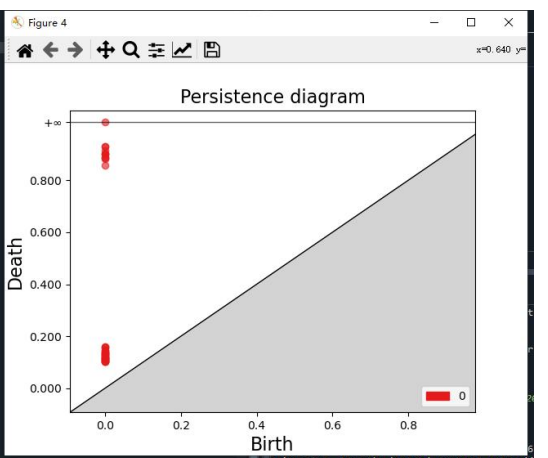
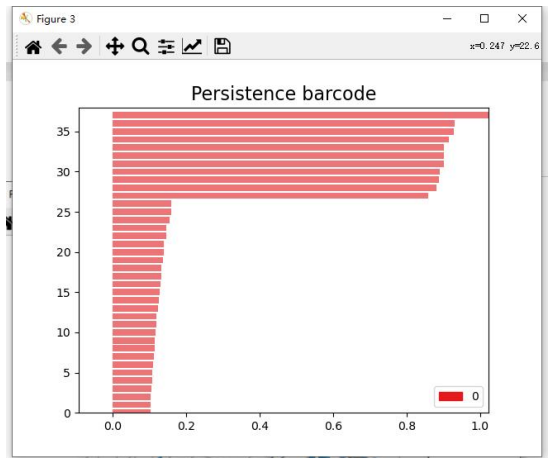
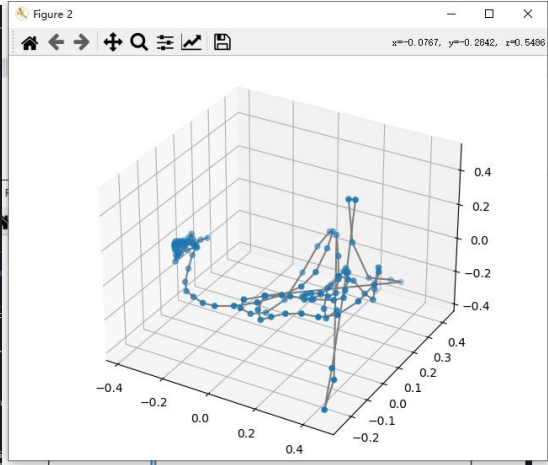
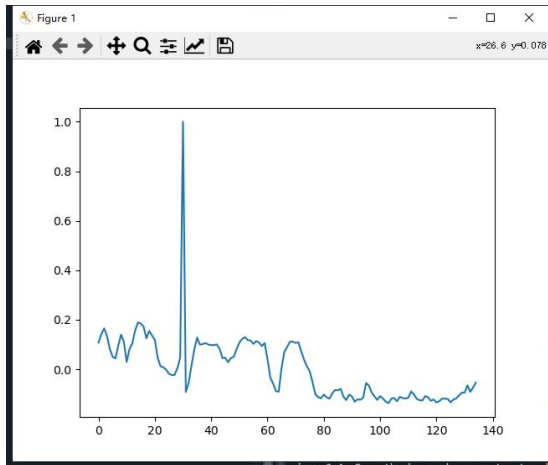
negative\\202206021135-1\_02-167-51550-51685.mkv

Not frame differencing



frame differencing





## Challenge

Periodicity: Other behaviors will occur simultaneously during scratching, such as body shaking.

Time series: The video is short (1s-3s), and the frame rate is low, so the data of time series obtained is small.

Interpolation may be considered. (reasonable?)

One analyze directly the original video (10mins) . (drop frame? memory?)