Run the codes in the following order:

1. mult\_norm\_kdefunc\_gen.py - This code takes a photon list as an input and generates all of the kernel density estimations needed. (photon lists used in paper are provided)
2. norm\_random\_number\_gen.py - This code takes the kernel density estimations and the photon lists and generates an array of arrays containing the Monte Carlo bursts needed for the timescale tests.
3. TS\_normkde\_readinMCbursts.py & TS\_normkde\_readinMCbursts\_multdts.py - This code takes the photon lists and generated Monte Carlo bursts and compares them in both the Cumulative Pair Analysis test and Multiplication Gap test respectively. **Note:** The results generated will have normalized time values that need to be unnormalized by multiplying by the total time range analyzed (in the case of our paper, 1000 seconds).