**CSOC20010 Assignment 7 – Lagged Cross correlation**

*Samuel Dornan*

Given the relationship between Covid-19 cases and deaths, it is possible to predict the number of days between a person being diagnosed with Covid-19 and their death. While it is by no means a perfect estimate, as we can see from the chart below, the time frame with the highest correlation between Covid-19 diagnoses and deaths is approximately 13 days (σ=0.71). From this we can infer that the average life-expectancy for a person infected with a severe case of Covid-19 is 13 days since their diagnosis.

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