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***Prof. Michail Stamatakis***

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| **Date: 26.11.18** | **Last meeting’s date: 13.11.18** |
| **Student names:**  Alexander Hedberg, Shervin Sharifi Rad | **Degree: MEng** |
| **Secondary academic supervisor:**  N/A | **PhD student/Researcher supervisor:**  Prof. Michail Stamatakis |
| **Project title:**  *Stochastic Modelling* | |
| **Summary of last meeting (as stated in email immediately following that meeting):**   1. Moving average rolling windows    1. Plot multiple rolling windows and compare the autocorrelation function    2. Cross correlation between the index and the google trends is to be calculated 2. Data    1. The data seems interesting and worthy of the analysis    2. The data should be chosen in an isolated economic system where geopolitics or human drivers play little role (i.e. not energy or cryptocurrency)    3. The drivers should be macro-economic indices to mitigate anomalies risen from single transactions within a market   **Supervisor’s actions following last meeting:**   1. N/A | |
| **Main achievements since last meeting:**   1. Created dataframes of the datasets 2. Moving averages plotted and errors calculated for Real Disposable Personal Income 3. Error between the moving average and raw index was calculated | |
| **Work planned for the coming period:**   1. Plot autocorrelation function for that single index 2. Plot moving averages with multiple rolling windows | |
| **Items for discussion at this meeting:**   1. The error between the raw index and the moving average is constantly above 0    1. Should the data be stationarized and AR to be used 2. When calculating the autocorrelation function, does using 177 data points result in viable accuracy | |

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Supervisor signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_