DOCTORAL REPORT FORM
PART FOUR: LIST OF CORRECTIONS/REVISIONS

This part must be completed in all cases where the recommendation is minor or major corrections or revise and resubmit the thesis.

To remove any ambiguity examiners should be explicit in the guidance given with regard to corrections.

Corrections have been noted on the body of the thesis	YES	NO
If yes, has the thesis been returned to candidate	YES	NO

Copies of the thesis have been returned to the candidate for small corrections including typographic errors, English and cosmetic improvements to Figures. More detailed corrections are listed below:

1. Tidy up use of terms – complex, non-complex, predictable, deterministic, stochastic, so they are used self-consistently
2. Remove abbreviations from Abstract
3. Change discussion in Chapter 7 into the 3rd person tense
4. Add published/submitted/in preparation papers to list on page 17
5. In chapter 1 it is important to say you assume non-stationary and non-linearity, in the methods sections you need to show that the data is non-stationary and non-linear if you are making that assumption. This could, for example, involve the use of surrogate data analysis methods.
6. Say in the introduction that you want to make the work open for others to use the methods and data so that the field can advance
7. Equations 3.10, 3.11 – you used mean parameters, state that you could also use maximum values and why might that be useful? In later results chapters, take care to label figures with appropriate symbols m and τ or $\bar{m}_o$ $\bar{\bar{\tau}}_o$ etc.
8. Fig 5.1 and 5.2 change horizontal axis to "time" rather than "sample number" so the reader can make a more direct connection to movement, do the same in similar plots elsewhere
9. Colour code bar legends in "seconds" in Figs 5.5, 5.6, 5.7, 5.8
10. In Chapter 4, explain how you selected which section of the time series to use, based on the figure 4.4
11. In Chapter 4 clarify why these movements were chosen and the limitations of the robot (jerky arms) which might influence the data. You can use this to justify the importance of smoothing, otherwise it is not clear why smoothing is so important. Then in the results chapter, point out the related features in the data
12. What is the significance of the black boxes in the lower left corner of some recurrence plots?
13. In Chapter 7, discuss how the limitations on the movements (point 11) affect the general applicability of the results.
14. Explain how the 3D surface plots are made – you had to condense the axis labels, this does make the meaning hard to get so more explanation in the text is needed.

Examiner	Name (Block Capitals)	Signature	Date
Internal	TIM J JACKSON	TJJack	11/1/19
External	MAX A. LITTLE	MAL	11/1/19

Completed Parts 2, 3 and 4 should be returned together to Gemma Routledge, Research Student Administration Team, Registry, Academic Services, The University of Birmingham Edgbaston, Birmingham B15 2TT