

Student's declaration

This thesis presents the original work done by me at the University of Birmingham and I have written all the parts of the thesis myself. The data presented in the Chapter 3 for which the methods are described in Chapter 2 were published in Haines *et al.* (2013).



Rohit Farmer

Declaration by co-authors of Haines *et al.* (2013)

The results and the methods presented in Chapter 3 and Chapter 2 respectively were previously published in Haines *et al.* (2013). There are some strong similarities in writing between parts of Chapter 2 and 3 and Haines *et al.* (2013), however the work related to these sections was done by Rohit Farmer and he was responsible for writing the text that formed those parts of the published paper.



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