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I, XXXXXX, do hereby certify that this thesis, submitted for the degree of PhD, which is approximately 30,000 words in length, has been written by me, and that it is the record of work carried out by me, or principally by myself in collaboration with others as acknowledged, and that it has not been submitted in any previous application for any degree. I confirm that any appendices included in my thesis contain only material permitted by the 'Assessment of Postgraduate Research Students' policy.

I was admitted as a research student at the University of St Andrews in October 2022.

I received funding from an organisation or institution and have acknowledged the funder(s) in the full text of my thesis.

Date

Signature of candidate

## **Supervisor's declaration**

I hereby certify that the candidate has fulfilled the conditions of the Resolution and Regulations appropriate for the degree of PhD in the University of St Andrews and that the candidate is qualified to submit this thesis in application for that degree. I confirm that any appendices included in the thesis contain only material permitted by the 'Assessment of Postgraduate Research Students' policy.

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Date

Signature of candidate