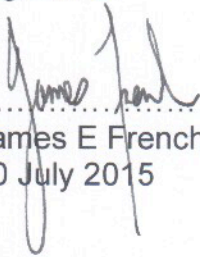


Declaration

I, the undersigned, hereby declare that the work contained in this thesis is my own original work and that it has not previously in full or in part been submitted at any university for a degree.

Signature:



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James E French
30 July 2015