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| Nature of contribution by PhD candidate | Designed the study, conducted data analysis, and wrote up the chapters. | |
| Extent of contribution by PhD candidate (%) | 95% |

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| **CO-AUTHORS** |

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| **Name** | **Nature of Contribution** |
| Nicholas J. Matzke | Assisted with statistical analysis and interpetation of results. |
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| **Certification by Co-Authors** |

The undersigned hereby certify that:

* the above statement correctly reflects the nature and extent of the PhD candidate’s contribution to this work, and the nature of the contribution of each of the co-authors; and
* that the candidate wrote all or the majority of the text.

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| **Name** | **Signature** | Date |
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