**Appendix A**

**List of regions associated with increasing CV during the decision phase for Time 1**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Time 1 Decision Phase: Parametric regressor of CV for chosen options* | | | | | | | |
|  |  |  |  | Peak MNI Coordinates | | |  |
| Cluster # |  | Region | Size | *x* | *y* | *z* | *T* |
| 1 |  | R Insular Cortex | 605 | 30 | 20 | -11 | 8.24 |
|  |  | R Insular Cortex |  | 45 | 17 | -2 | 7.27 |
| 2 |  | R Anterior Cingulate Cortex | 1798 | 3 | 35 | 22 | 8.14 |
|  |  | R Anterior Cingulate Cortex |  | 6 | 41 | 4 | 6.25 |
|  |  | R Pallidum |  | 12 | 2 | -5 | 5.91 |
| 3 |  | L Insular Cortex | 430 | -30 | 17 | -14 | 7.79 |
|  |  | L Insular Cortex |  | -39 | 17 | -5 | 7.65 |
| 4 |  | R Middle Cingulate Cortex | 111 | 3 | -16 | 34 | 4.84 |
| 5 |  | L Middle Occipital Lobe | 93 | -36 | -94 | 1 | 4.14 |
|  |  | L Middle Occipital Lobe |  | -27 | -97 | -8 | 4.08 |
| 6 |  | R Middle Occipital Lobe | 45 | 24 | -100 | 1 | 4.09 |
|  |  | R Inferior Occipital Gyrus |  | 36 | -88 | -8 | 3.59 |
| 7 |  | R Precentral Gryus | 8 | 42 | 5 | 31 | 3.54 |
| 8 |  | R Superior Orbitofrontal Cortex | 5 | 21 | 56 | -8 | 3.43 |
| Note: MNI, Montreal Neurological Institute; L, Left; R, right. Size refers to the number of voxels in the cluster. At the subject level, decision and outcome events were included with a duration of 4 and 2 seconds, respectively. Additionally, a parametric regressor of CV-modulated decision phase activity and a parametric regressor of outcome phase activity representing whether the subject received the high or low outcome was received was included in the subject model. All activations reported here survive whole-brain family-wise error multiple comparisons correction at a threshold of *p* < .05. | | | | | | | |

**Appendix B**

**List of regions associated with increasing CV during the decision phase for Time 3**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Time 3 Decision Phase: Parametric regressor of CV for chosen options* | | | | | | | | | | | | | | |
|  |  |  | |  | | Peak MNI Coordinates | | | | | |  | | |
| Cluster # |  | Region | | Size | | *x* | | *y* | | *z* | | *T* | | |
| 1 |  | R Anterior Cingulate Cortex | 3957 | | 6 | | 38 | | 22 | | 8.29 | |
|  |  | R Insular Cortex |  | | 27 | | 23 | | -8 | | 7.95 | |
|  |  | L Insular Cortex |  | | -33 | | 14 | | -11 | | 7.77 | |
|  |  | R Insular Cortex |  | | 36 | | 17 | | -11 | | 7.07 | |
| 2 |  | R Medial Orbitofrontal Cortex | 151 | | 24 | | 47 | | -14 | | 5.57 | |
| 3 |  | R Angular Gyrus | 131 | | 33 | | -64 | | 40 | | 5.15 | |
| 4 |  | L Cerebellum | 124 | | -33 | | -61 | | -26 | | 4.83 | | | | |
| Note: MNI, Montreal Neurological Institute; L, Left; R, right. Size refers to the number of voxels in the cluster. At the subject level, decision and outcome events were included with a duration of 4 and 2 seconds, respectively. Additionally, a parametric regressor of CV-modulated decision phase activity and a parametric regressor of outcome phase activity representing whether the subject received the high or low outcome was received was included in the subject model. All activations reported here survive whole-brain family-wise error multiple comparisons correction at a threshold of *p* < .05. | | | | | | | | | | | | | |

**Appendix C**

**Interference Effect in the MSIT for Time 1**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Time 1 MSIT Interference - Neutral* | | | | | | | |
|  |  |  |  | Peak MNI Coordinates | | |  |
| Cluster # |  | Region | Size | *x* | *y* | *z* | *T* |
| 1 |  | L Pre-Supplementary Motor Area | 3082 | -6 | 14 | 49 | 21.79 |
|  |  | L Middle Frontal Gyrus |  | -27 | -7 | 55 | 19.77 |
|  |  | R Middle Frontal Gyrus |  | 27 | -4 | 52 | 18.59 |
| 2 |  | L Inferior Parietal Lobule | 7268 | -45 | -37 | 49 | 21.41 |
|  |  | L Middle Occipital Gyrus |  | -39 | -85 | -2 | 20.51 |
|  |  | L Middle Occipital Gyrus |  | -30 | -91 | -2 | 20.03 |
| 3 |  | R Insular Cortex | 1178 | 33 | 20 | 7 | 15.90 |
|  |  | L Thalamus |  | -9 | -19 | 13 | 15.69 |
|  |  | R Thalamus |  | 9 | -19 | 10 | 13.67 |
| 4 |  | L Insular Cortex | 246 | -30 | 17 | 10 | 14.07 |
|  |  | L Insular Cortex |  | -30 | 23 | 4 | 13.75 |
|  |  | R Putamen |  | -24 | 5 | 10 | 6.99 |
| 5 |  | L Cerebellum | 47 | -27 | -70 | -47 | 9.95 |
|  |  | L Cerebellum |  | -33 | -52 | -50 | 6.75 |
| 6 |  | R Dorsolateral Prefrontal Cortex | 176 | 39 | 38 | 28 | 9.06 |
| 7 |  | Anterior Cingulate Cortex | 27 | -3 | 8 | 25 | 7.48 |
| Note: MNI, Montreal Neurological Institute; L, Left; R, right. Size refers to the number of voxels in the cluster. All activations reported here survive whole-brain family-wise error multiple comparisons correction at a threshold of *p* < .001. | | | | | | | |

**Appendix D**

**Interference Effect in the MSIT for Time 2**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Time 2 MSIT Interference - Neutral* | | | | | | | |
|  |  |  |  | Peak MNI Coordinates | | |  |
| Cluster # |  | Region | Size | *x* | *y* | *z* | *T* |
| 1 |  | L Middle Occipital Gyrus | 2443 | -30 | -88 | 1 | 21.10 |
|  |  | L Inferior Occipital Gyrus |  | -36 | -82 | -5 | 20.70 |
|  |  | L Superior Parietal Lobule |  | -21 | -64 | 49 | 19.39 |
| 2 |  | R Middle Occipital Gyrus | 2143 | 33 | -88 | -2 | 20.00 |
|  |  | R Inferior Occipital Gyrus |  | 39 | -82 | -5 | 19.93 |
|  |  | R Inferior Temporal Gyrus |  | 42 | -64 | -8 | 18.15 |
| 3 |  | L Pre-Supplementary Motor Area | 1796 | -6 | 14 | 46 | 18.07 |
|  |  | L Middle Frontal Gyrus |  | -24 | -4 | 58 | 16.95 |
|  |  | L Inferior Frontal Gyrus |  | -45 | 2 | 34 | 13.99 |
| 4 |  | L Insular Cortex | 160 | -27 | 20 | 10 | 13.35 |
| 5 |  | L Thalamus | 788 | -12 | -16 | 13 | 13.35 |
|  |  | R Insular Cortex |  | 36 | 17 | 10 | 12.21 |
|  |  | Midbrain |  | -6 | -25 | -8 | 11.80 |
| 6 |  | R Inferior Frontal Gyrus | 120 | 48 | 5 | 31 | 11.52 |
| 7 |  | Cerebellum Posterior Lobe | 477 | 6 | -73 | -17 | 10.75 |
|  |  | Cerebellum Posterior Lobe |  | -3 | -73 | -26 | 10.25 |
|  |  | Cerebellum Anterior Lobe |  | 0 | -55 | -29 | 9.79 |
| Note: MNI, Montreal Neurological Institute; L, Left; R, right. Size refers to the number of voxels in the cluster. All activations reported here survive whole-brain family-wise error multiple comparisons correction at a threshold of *p* < .001. | | | | | | | |

**Appendix E**

**Interference Effect in the MSIT for Time 3**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Time 3 MSIT Interference - Neutral* | | | | | | | |
|  |  |  |  | Peak MNI Coordinates | | |  |
| Cluster # |  | Region | Size | *x* | *y* | *z* | *T* |
| 1 |  | L Middle Frontal Gyrus | 902 | -27 | -4 | 55 | 14.68 |
|  |  | L Pre-Supplementary Motor Area |  | -6 | 11 | 49 | 12.52 |
|  |  | R Middle Cingulate Gyrus |  | 9 | 17 | 43 | 11.27 |
| 2 |  | L Inferior Occipital Gyrus | 2165 | -39 | -67 | -5 | 14.3 |
|  |  | L Middle Occipital Gyrus |  | -30 | -91 | 4 | 13.5 |
|  |  | L Inferior Parietal Lobule |  | -42 | -37 | 43 | 13.12 |
| 3 |  | R Occipital Middle Gyrus | 2399 | 36 | -85 | 10 | 12.87 |
|  |  | R Inferior Occipital Gyrus |  | 33 | -88 | -2 | 12.79 |
|  |  | R Inferior Occipital Gyrus |  | 39 | -76 | -2 | 12.77 |
| 4 |  | L Insular Cortex | 200 | -27 | 17 | 7 | 11.92 |
| 5 |  | R Middle Frontal Gyrus | 252 | 27 | -1 | 55 | 11.73 |
| 6 |  | R Insular Cortex | 228 | 33 | 17 | 7 | 11.07 |
| 7 |  | L Thalamus | 209 | -12 | -19 | 16 | 9.63 |
|  |  | L Caudate |  | -18 | -7 | 25 | 8.47 |
|  |  | L Hippocampus; White Matter |  | -30 | -34 | 4 | 7.72 |
| 8 |  | L Precentral Gyrus | 160 | -45 | 2 | 31 | 9.39 |
| 9 |  | Red Nucleus | 74 | -6 | -22 | -8 | 9.38 |
|  |  | Midbrain |  | 9 | -22 | -11 | 8.65 |
|  |  | Midbrain |  | -3 | -31 | -17 | 7.03 |
| 10 |  | R Precentral Gyrus | 77 | 48 | 8 | 31 | 9.20 |
| 11 |  | L Cerebellum Posterior Lobe | 26 | -24 | -67 | -44 | 8.18 |
| 12 |  | R Hippocampus; White Matter | 101 | 27 | -34 | 10 | 8.05 |
|  |  | R Thalamus |  | 21 | -22 | 16 | 7.44 |
|  |  | R Thalamus |  | 15 | -13 | 13 | 7.27 |
| Note: MNI, Montreal Neurological Institute; L, Left; R, right. Size refers to the number of voxels in the cluster. All activations reported here survive whole-brain family-wise error multiple comparisons correction at a threshold of *p* < .001. | | | | | | | |

**Appendix F**

**Interference Effect in the MSIT for Time 4**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Time 4 MSIT Interference - Neutral* | | | | | | | |
|  |  |  |  | Peak MNI Coordinates | | |  |
| Cluster # |  | Region | Size | *x* | *y* | *z* | *T* |
| 1 |  | L Middle Occipital Gyrus | 2268 | -30 | -88 | -2 | 18.61 |
|  |  | L Superior Parietal Lobule |  | -24 | -64 | 49 | 17.01 |
|  |  | L Inferior Parietal Lobule |  | -42 | -37 | 43 | 16.52 |
| 2 |  | R Inferior Occipital Gyrus | 2339 | 30 | -91 | -2 | 18.43 |
|  |  | R Middle Occipital Gyrus |  | 36 | -85 | 7 | 18.00 |
|  |  | R Angular Gyrus |  | 27 | -58 | 52 | 16.84 |
| 3 |  | L Pre-Supplementary Motor Area | 1272 | -3 | 11 | 49 | 16.65 |
|  |  | L Middle Frontal Gyrus |  | -27 | -4 | 58 | 15.15 |
|  |  | L Precentral Gyrus |  | -42 | 2 | 31 | 12.93 |
| 4 |  | L Insular Cortex | 129 | -27 | 20 | 7 | 12.11 |
| 5 |  | R Precentral Gyrus | 92 | 51 | 8 | 31 | 10.79 |
| 6 |  | R Insular Cortex | 150 | 36 | 17 | 7 | 10.42 |
|  |  | R Putamen |  | 24 | 11 | 7 | 8.44 |
| 7 |  | L Thalamus | 154 | -9 | -19 | 10 | 9.51 |
|  |  | L Caudate |  | -18 | -7 | 25 | 8.23 |
|  |  | White Matter; L Caudate Tail |  | -24 | -34 | 10 | 6.54 |
| 8 |  | R Thalamus | 93 | 15 | -13 | 13 | 8.39 |
|  |  | White Matter; R Caudate Tail |  | 24 | -31 | 16 | 7.59 |
|  |  | White Matter; R Caudate |  | 21 | -4 | 22 | 7.34 |
| 9 |  | L Brainstem | 38 | -3 | -28 | -11 | 7.68 |
|  |  | R Brainstem |  | 6 | -25 | -8 | 7.42 |
| 10 |  | L Middle Frontal Gyrus | 21 | -45 | 32 | 28 | 7.41 |
| Note: MNI, Montreal Neurological Institute; L, Left; R, right. Size refers to the number of voxels in the cluster. All activations reported here survive whole-brain family-wise error multiple comparisons correction at a threshold of *p* < .001. | | | | | | | |