

Supplementary Material S1 for

Extracting multiscale pattern information of fMRI based functional brain connectivity with application on classification of autism spectrum disorders

Hui Wang¹, Chen Chen¹, Hsieh Fushing^{1,*}

1 Department of Statistics, University of California, Davis, One Shields Ave., Davis, CA, USA 95616

* E-mail: fushing@wald.ucdavis.edu

This file contains only a table.

Table 1. ROI names and coordinates

| ID | Name | x | y | z | ID | Name | x | y | z |
|----|----------------------|-------|--------|-------|-----|----------------------|-------|-------|-------|
| 1 | Amygdala_L | -23.5 | -1.95 | -18.5 | 54 | Lingual_R | 16.1 | -68.1 | -5.22 |
| 2 | Amygdala_R | 27.1 | -0.573 | -18.8 | 55 | Occipital_Inf_L | -36.5 | -79.6 | -9.16 |
| 3 | Angular_L | -44.4 | -62.1 | 34.3 | 56 | Occipital_Inf_R | 37.9 | -83.2 | -8.99 |
| 4 | Angular_R | 45.2 | -61.2 | 37.3 | 57 | Occipital_Mid_L | -32.6 | -82.0 | 14.8 |
| 5 | Calcarine_L | -7.48 | -79.8 | 5.10 | 58 | Occipital_Mid_R | 37.1 | -81.0 | 18.1 |
| 6 | Calcarine_R | 15.7 | -74.4 | 8.02 | 59 | Occipital_Sup_L | -16.8 | -85.6 | 26.9 |
| 7 | Caudate_L | -11.8 | 9.72 | 8.07 | 60 | Occipital_Sup_R | 24.0 | -82.2 | 29.3 |
| 8 | Caudate_R | 14.5 | 10.8 | 8.15 | 61 | Olfactory_L | -8.26 | 13.9 | -12.7 |
| 9 | Cerebelum_10_L | -8.12 | -38.4 | -19.8 | 62 | Olfactory_R | 10.1 | 14.7 | -12.6 |
| 10 | Cerebelum_10_R | 13.1 | -35.7 | -20.6 | 63 | Pallidum_L | -18.1 | -1.36 | -10.4 |
| 11 | Cerebelum_3_L | -14.3 | -44.7 | -18.3 | 64 | Pallidum_R | 20.9 | -1.06 | -1.09 |
| 12 | Cerebelum_3_R | 17.9 | -44.2 | -19.4 | 65 | ParaHippocampal_L | -21.5 | -17.3 | -21.9 |
| 13 | Cerebelum_4_5_L | -22.5 | -60.3 | -23.5 | 66 | ParaHippocampal_R | 25.1 | -16.3 | -21.7 |
| 14 | Cerebelum_4_5_R | 25.4 | -59.5 | -24.9 | 67 | Paracentral_Lobule_L | -7.97 | -26.7 | 68.7 |
| 15 | Cerebelum_6_L | -31.6 | -61.0 | -46.8 | 68 | Paracentral_Lobule_R | 7.13 | -32.9 | 66.8 |
| 16 | Cerebelum_6_R | 33.9 | -64.4 | -49.8 | 69 | Parietal_Inf_L | -43.1 | -47.0 | 45.4 |
| 17 | Cerebelum_9_L | -21.8 | -35.0 | -43.1 | 70 | Parietal_Inf_R | 46.3 | -47.6 | 48.2 |
| 18 | Cerebelum_9_R | 26.8 | -35.0 | -42.6 | 71 | Parietal_Sup_L | -23.7 | -60.8 | 57.7 |
| 19 | Cerebelum_Crus1_L | -35.4 | -67.9 | -30.3 | 72 | Parietal_Sup_R | 25.8 | -60.4 | 60.7 |
| 20 | Cerebelum_Crus1_R | 38.2 | -68.4 | -30.8 | 73 | Postcentral_L | -42.9 | -23.8 | 47.5 |
| 21 | Cingulum_Ant_L | -4.36 | 34.2 | 12.5 | 74 | Postcentral_R | 41.2 | -26.8 | 51.3 |
| 22 | Cingulum_Ant_R | 8.12 | 35.7 | 14.4 | 75 | Precentral_L | -38.9 | -6.96 | 49.6 |
| 23 | Cingulum_Mid_L | -5.88 | -16.1 | 40.2 | 76 | Precentral_R | 41.1 | -9.55 | 50.8 |
| 24 | Cingulum_Mid_R | 7.66 | -10.2 | 38.4 | 77 | Precuneus_L | -7.59 | -57.3 | 46.6 |
| 25 | Cingulum_Post_L | -5.21 | -44.2 | 23.3 | 78 | Precuneus_R | 9.69 | -57.3 | 42.4 |
| 26 | Cingulum_Post_R | 7.18 | -43.1 | 20.5 | 79 | Putamen_L | -24.2 | 2.60 | 1.07 |
| 27 | Cuneus_L | -6.26 | -81.4 | 25.8 | 80 | Putamen_R | 27.5 | 3.68 | 1.19 |
| 28 | Cuneus_R | 13.2 | -80.6 | 26.9 | 81 | Rolandic_Oper_L | -47.4 | -9.78 | 12.6 |
| 29 | Frontal_Inf_Oper_L | -48.8 | 11.5 | 17.8 | 82 | Rolandic_Oper_R | 52.4 | -7.54 | 13.3 |
| 30 | Frontal_Inf_Oper_R | 49.9 | 13.7 | 20.2 | 83 | Supp_Motor_Area_L | -5.69 | 3.55 | 60.1 |
| 31 | Frontal_Inf_Orb_L | -36.2 | 29.5 | -13.5 | 84 | Supp_Motor_Area_R | 8.25 | -1.09 | 60.5 |
| 32 | Frontal_Inf_Orb_R | 40.9 | 31.0 | -13.3 | 85 | SupraMarginal_L | -56.1 | -34.9 | 29.1 |
| 33 | Frontal_Inf_Tri_L | -45.9 | 28.7 | 12.6 | 86 | SupraMarginal_R | 57.3 | -32.8 | 33.1 |
| 34 | Frontal_Inf_Tri_R | 50.1 | 28.9 | 12.8 | 87 | Temporal_Inf_L | -50.0 | -29.3 | -24.5 |
| 35 | Frontal_Med_Orb_L | -5.44 | 52.5 | -8.86 | 88 | Temporal_Inf_R | 53.4 | -32.1 | -23.7 |
| 36 | Frontal_Med_Orb_R | 7.83 | 50.4 | -8.52 | 89 | Temporal_Mid_L | -55.9 | -35.0 | -3.58 |
| 37 | Frontal_Mid_L | -33.8 | 31.5 | 34.1 | 90 | Temporal_Mid_R | 57.2 | -38.6 | -2.78 |
| 38 | Frontal_Mid_Orb_L | -30.9 | 49.1 | -11.0 | 91 | Temporal_Pole_Mid_L | -36.7 | 13.3 | -35.4 |
| 39 | Frontal_Mid_Orb_R | 32.9 | 51.3 | -12.1 | 92 | Temporal_Pole_Mid_R | 44.0 | 13.2 | -33.5 |
| 40 | Frontal_Mid_R | 37.4 | 31.8 | 32.8 | 93 | Temporal_Pole_Sup_L | -40.2 | 13.9 | -21.4 |
| 41 | Frontal_Sup_L | -18.8 | 33.5 | 41.0 | 94 | Temporal_Pole_Sup_R | 47.9 | 13.5 | -18.2 |
| 42 | Frontal_Sup_Medial_L | -5.17 | 47.9 | 29.6 | 95 | Temporal_Sup_L | -53.4 | -22.0 | 5.84 |
| 43 | Frontal_Sup_Medial_R | 8.75 | 49.5 | 28.9 | 96 | Temporal_Sup_R | 57.8 | -23.0 | 5.42 |
| 44 | Frontal_Sup_R | 21.6 | 29.9 | 42.5 | 97 | Thalamus_L | -11.2 | -18.8 | 6.61 |
| 45 | Fusiform_L | -31.4 | -41.4 | -21.6 | 98 | Thalamus_R | 12.7 | -18.8 | 6.73 |
| 46 | Fusiform_R | 33.7 | -40.2 | -21.5 | 99 | Vermis_10 | 1.14 | -47.1 | -32.9 |
| 47 | Heschl_L | -42.3 | -20.0 | 8.68 | 100 | Vermis_1_2 | 1.51 | -40.1 | -21.4 |
| 48 | Heschl_R | 45.9 | -18.1 | 9.04 | 101 | Vermis_3 | 2.05 | -41.3 | -12.7 |
| 49 | Hippocampus_L | -25.3 | -22.0 | -11.4 | 102 | Vermis_4_5 | 1.83 | -53.6 | -7.40 |
| 50 | Hippocampus_R | 28.9 | -21.0 | -11.6 | 103 | Vermis_6 | 1.77 | -68.4 | -16.4 |
| 51 | Insula_L | -35.4 | 5.40 | 2.17 | 104 | Vermis_7 | 1.87 | -73.2 | -26.4 |
| 52 | Insula_R | 38.7 | 5.02 | 0.814 | 105 | Vermis_8 | 1.81 | -65.7 | -35.3 |
| 53 | Lingual_L | -14.9 | -68.9 | -6.01 | 106 | Vermis_9 | 1.61 | -56.2 | -36.3 |