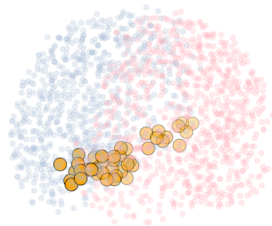


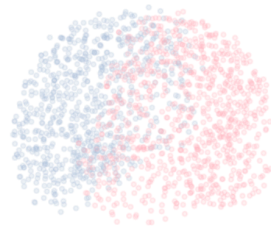
IN all cases, the orange colour is detected, and pink is the right hemisphere, blue is the left hemisphere. Initially started with ventral nodes for 25 percentile.

TESTCASE 1: INJECTION IN THE LEFT SIDE FOR VENTRAL CORTEX (FIGURE IS A COMPARISON BETWEEN GT(Ground Truth) and GNN prediction

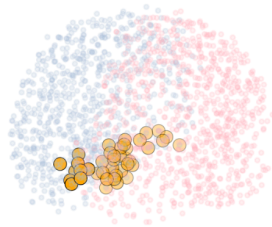
GT Ipsilateral (Left Hemisphere)



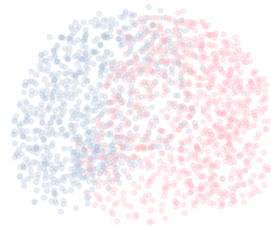
GT Contralateral (Right Hemisphere)



GNN Ipsilateral (Left Hemisphere)



GNN Contralateral (Right Hemisphere)



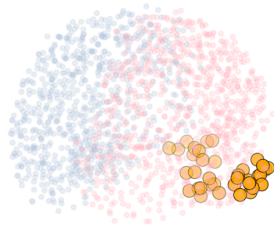
```
GNN:      P=0.780 R=0.780 F1=0.780
Found 2 GNN clusters among silent nodes.
Rank 0: C0 (size=32, radius=15.77, score=2.029)
Rank 1: C1 (size=9, radius=7.56, score=1.191)
[(0, [103, 167, 174, 223, 244, 256, 271, 277, 297, 316, 336, 340, 351,
367, 368, 371, 372, 373, 376, 389, 394, 397, 402, 403, 427, 430, 444, 455,
461, 495, 516, 532]), (1, [253, 273, 304, 320, 328, 398, 401, 406, 478])]
```

Mean Jaccard: 0.7039627039626593
Mean Δ COM: 4.78164541721344
 Δ k: 0.12424242424241486
G0 \leftrightarrow C0: J=0.590, Δ COM=7.00, size_gt=30, size_pred=32

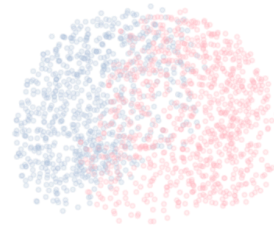
G1 ↔ C1: $J=0.818$, $\Delta\text{COM}=2.57$, $\text{size_gt}=11$, $\text{size_pred}=9$

TESTCASE 2: INJECTION IN THE RIGHT SIDE FOR VENTRAL CORTEX (FIGURE IS A COMPARISON BETWEEN GT (Ground Truth) and GNN prediction)

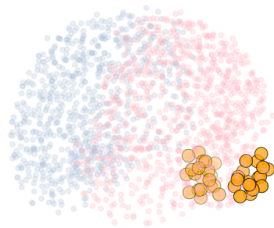
GT Ipsilateral (Right Hemisphere)



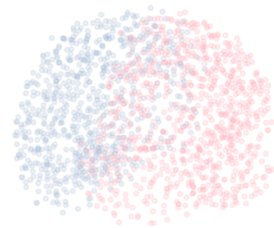
GT Contralateral (Left Hemisphere)



GNN Ipsilateral (Right Hemisphere)



GNN Contralateral (Left Hemisphere)



GNN: P=0.757 R=0.757 F1=0.757

Found 2 GNN clusters among silent nodes.

Rank 0: C0 (size=20, radius=11.64, score=1.718)

Rank 1: C1 (size=17, radius=12.51, score=1.359)

[(0, [1102, 1128, 1147, 1167, 1171, 1182, 1199, 1202, 1203, 1204, 1207, 1220, 1225, 1228, 1233, 1258, 1261, 1275, 1292, 1363]), (1, [1535, 1565,

1584, 1587, 1617, 1625, 1626, 1627, 1631, 1642, 1649, 1653, 1655, 1657,
1659, 1660, 1661]]]

Mean Jaccard: 0.6354775828459742

Mean Δ COM: 4.862676739692688

Δk : 0.0

G0 \leftrightarrow C0: J=0.481, Δ COM=6.77, size_gt=20, size_pred=20

G1 \leftrightarrow C1: J=0.789, Δ COM=2.96, size_gt=17, size_pred=17