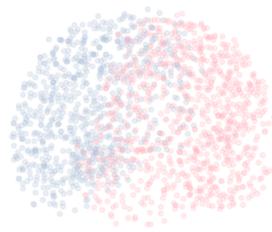
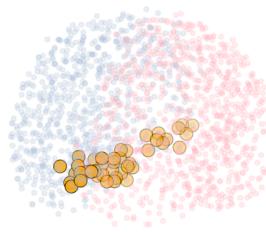


IN all cases, the orange colour is detected, and pink is the right hemisphere, blue is the left hemisphere. Initially started with ventral nodes for 25 percentile.

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

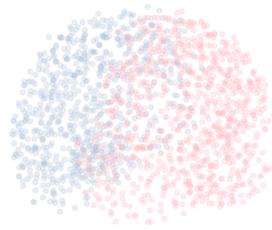
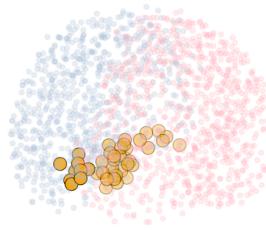
## GT Ipsilateral (Left Hemisphere)

### GT Contralateral (Right Hemisphere)



## GNN Ipsilateral (Left Hemisphere)

### GNN Contralateral (Right Hemisphere)

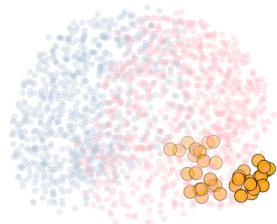


```
GNN: P=0.780 R=0.780 F1=0.780
Found 2 GNN clusters among silent nodes.
Rank 0: C0 (size=32, radius=15.77, score=2.029)
Rank 1: C1 (size=9, radius=7.56, score=1.191)
[(0, [103, 167, 174, 223, 244, 256, 271, 277, 297, 316, 336, 340, 351,
367, 368, 371, 372, 373, 376, 389, 394, 397, 402, 403, 427, 430, 444, 455,
461, 495, 516, 532]), (1, [253, 273, 304, 320, 328, 398, 401, 406, 478])]
Mean Jaccard: 0.7039627039626593
Mean ΔCOM: 4.78164541721344
Δk: 0.12424242424241486
G0 ↔ C0: J=0.590, ΔCOM=7.00, size gt=30, size pred=32
```

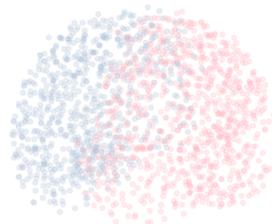
G1 ↔ C1: J=0.818, ΔCOM=2.57, size\_gt=11, size\_pred=9

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

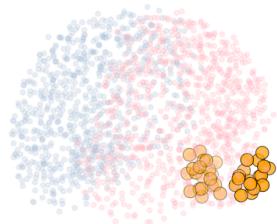
GT Ipsilateral (Right Hemisphere)



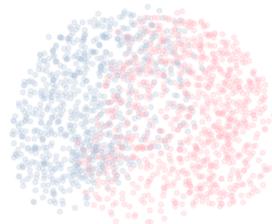
GT Contralateral (Left Hemisphere)



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 ΔCOM: 4.862676739692688  
Δk: 0.0  
G0 ↔ C0: J=0.481, ΔCOM=6.77, size_gt=20, size_pred=20  
G1 ↔ C1: J=0.789, ΔCOM=2.96, size_gt=17, size_pred=17
```