Performance of Graph versus Hypergraph Diffusions for Semi-supervised Community Detection
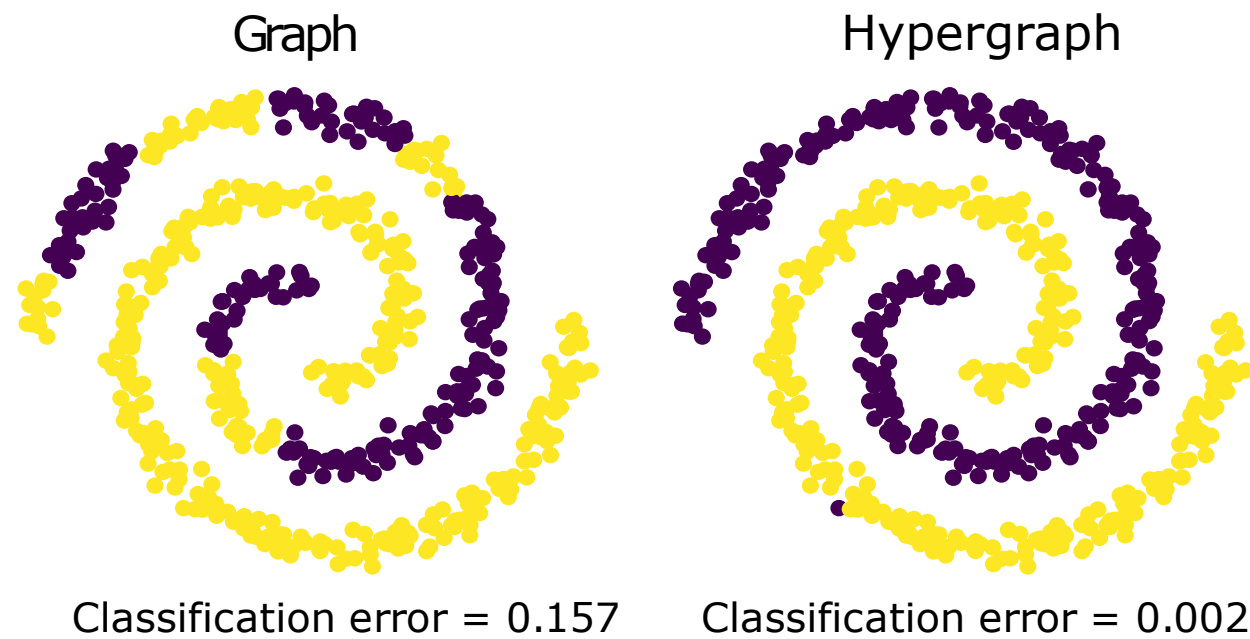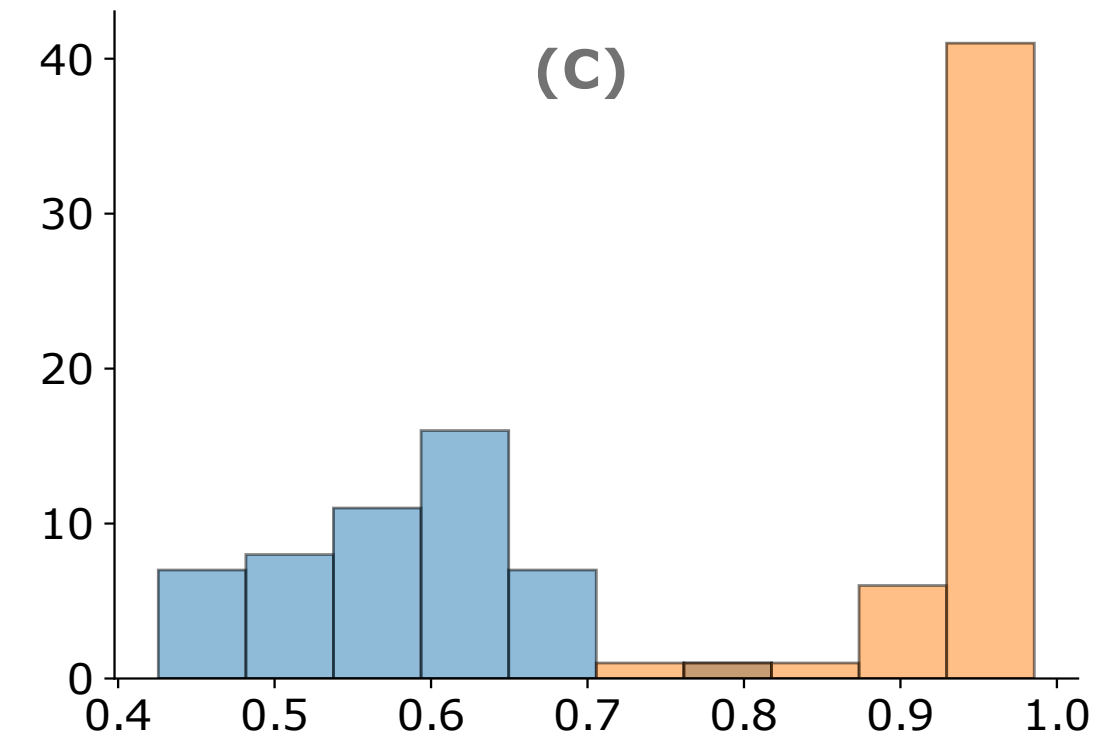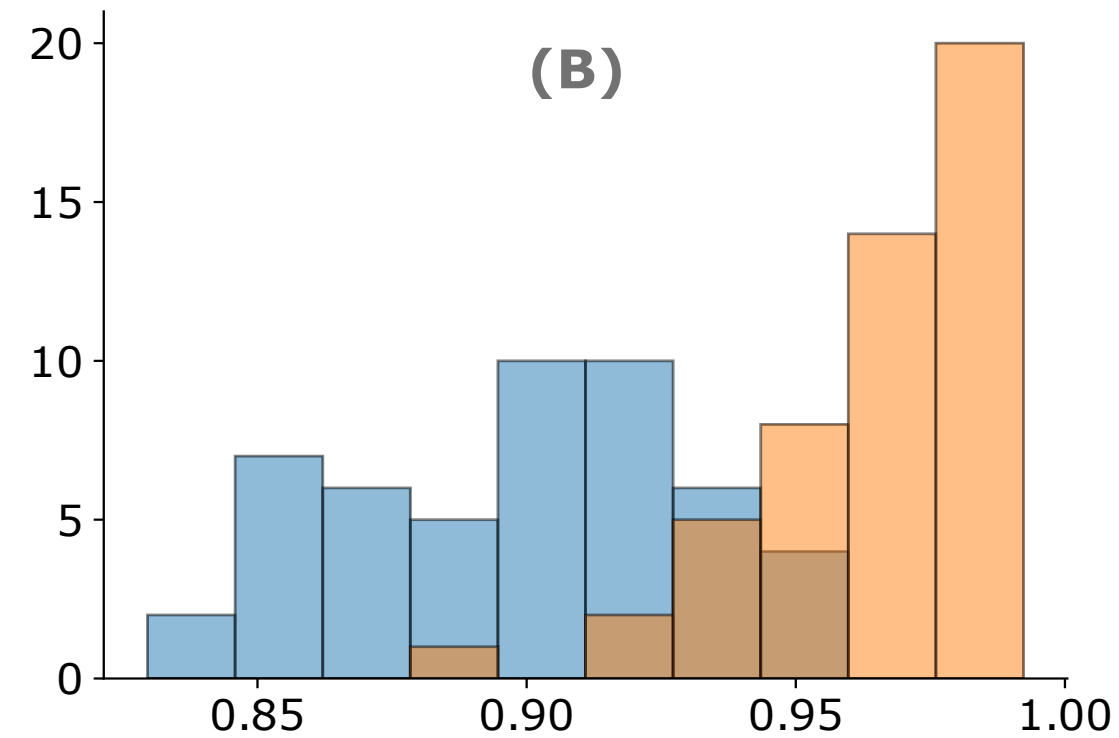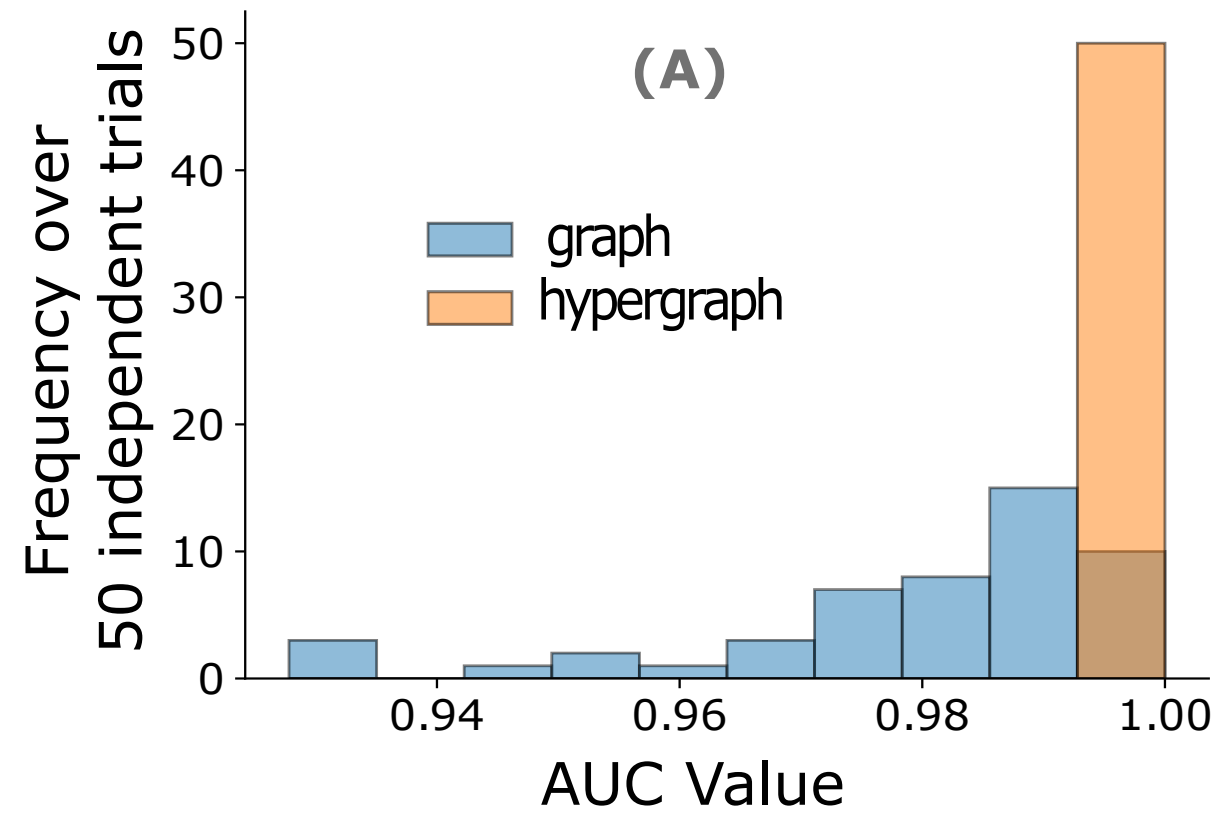

(A)

(B)

(C)

graph
hypergraph

Frequency over 50 independent trials

AUC Value
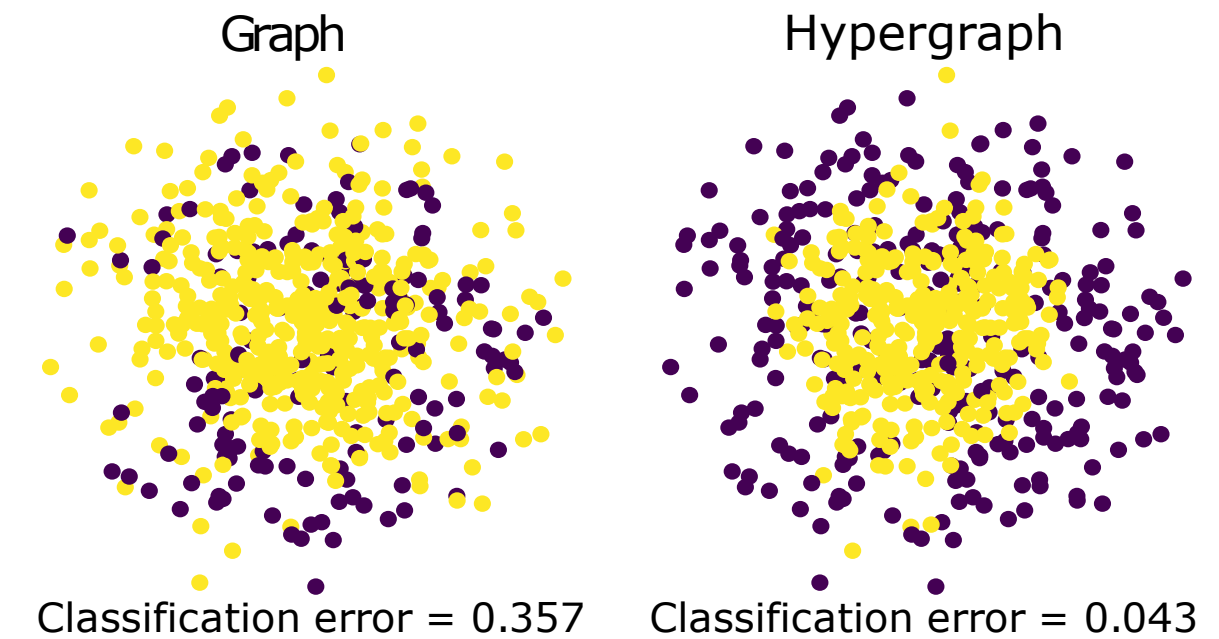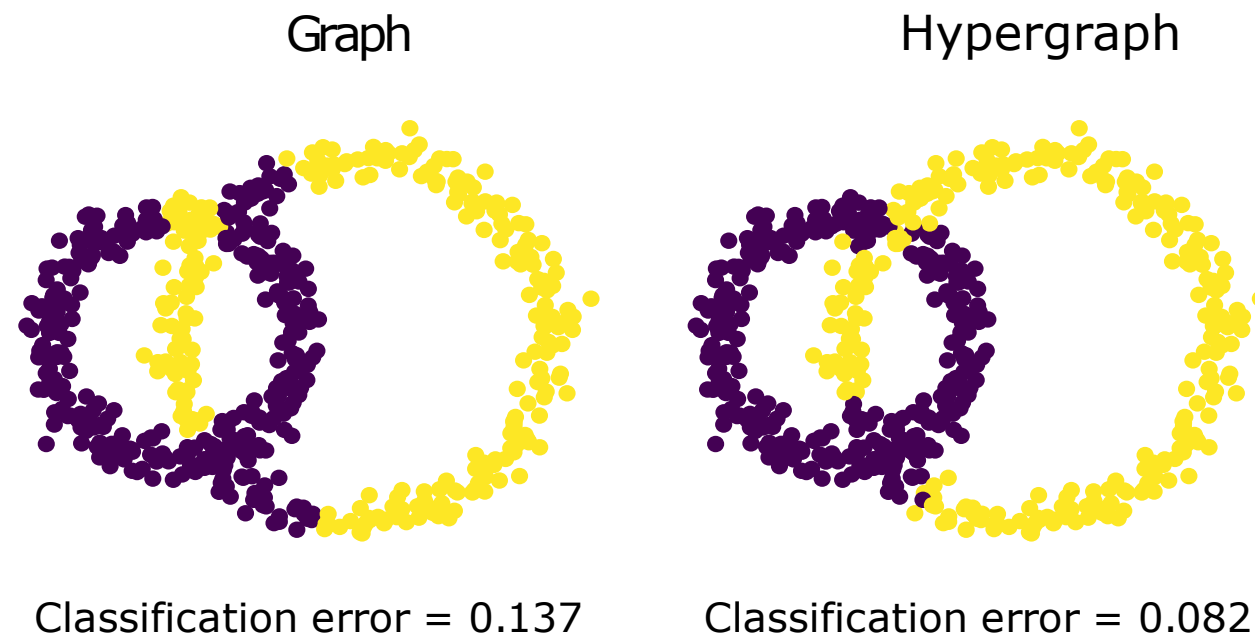
Example Label Estimates

Graph — Classification error = 0.157
Hypergraph — Classification error = 0.002

Graph — Classification error = 0.137
Hypergraph — Classification error = 0.082

Graph — Classification error = 0.357
Hypergraph — Classification error = 0.043