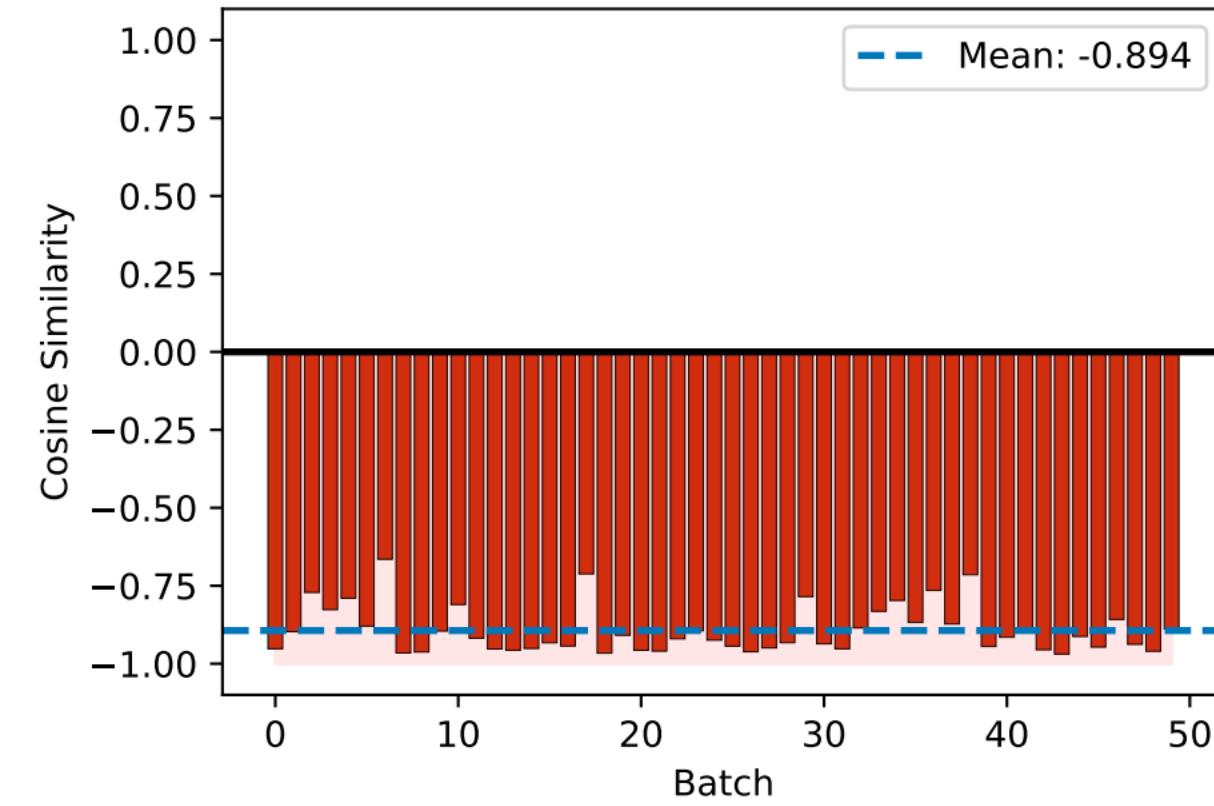
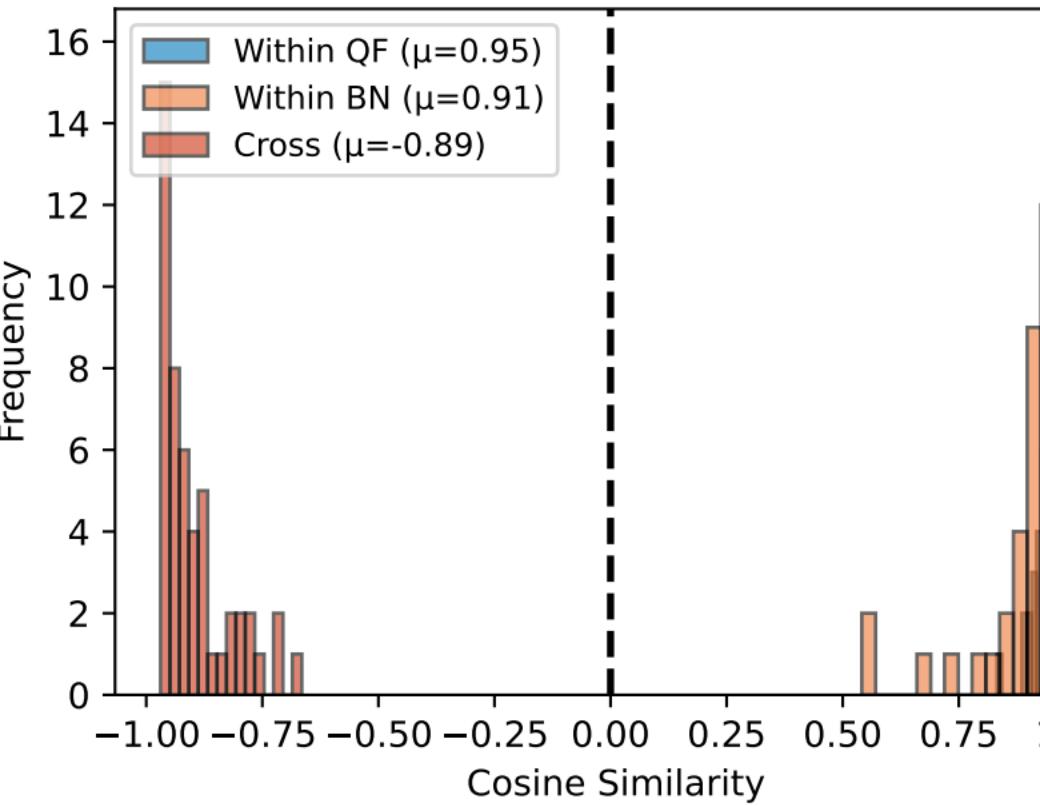


**(a) Cross-Domain Similarity  
(Your GNN Architecture)**



**(b) Similarity Distribution**



#### GRADIENT CONFLICT RESULTS

Architecture: Simplified MLP

Cross-Domain (QF vs BN):

- Avg Similarity: -0.894
- Conflict Rate: 100%

Within Queue-Free:

- Avg Similarity: +0.946

Within Bottleneck:

- Avg Similarity: +0.910

VM Setup (Heterogeneous):

VM0: speed=2000, energy=200

VM1: speed=1500, energy=100

VM2: speed=1000, energy=30 ← QF

VM3: speed=2500, energy=280 ← BN