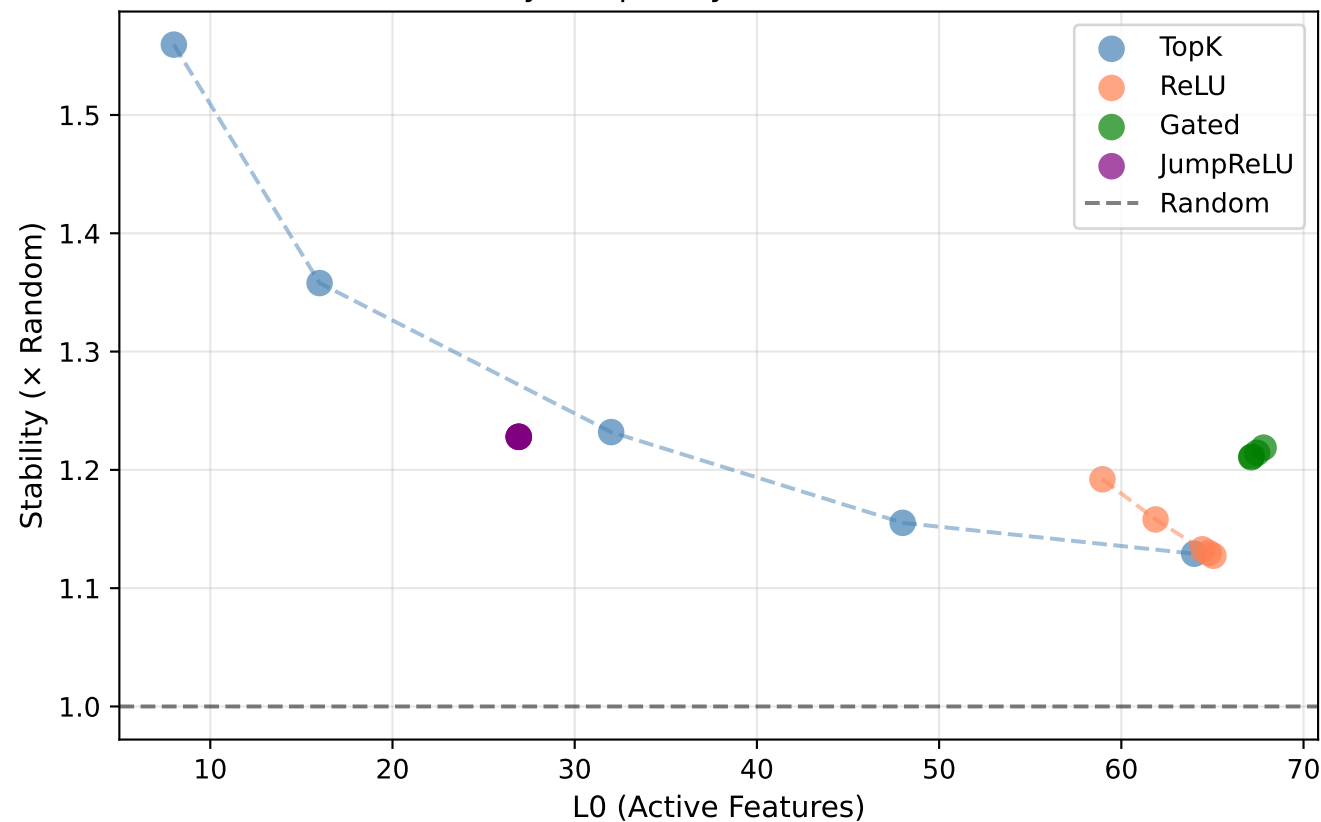
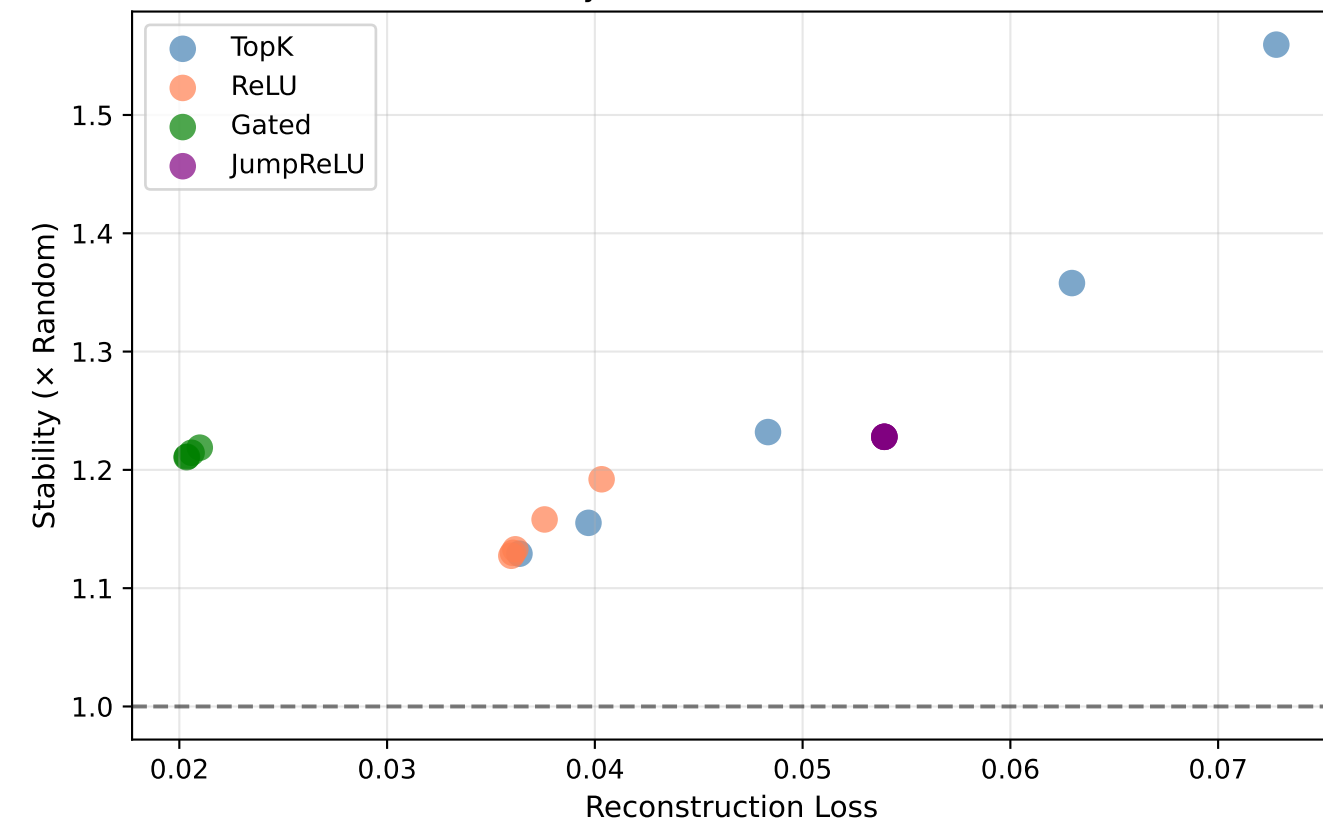


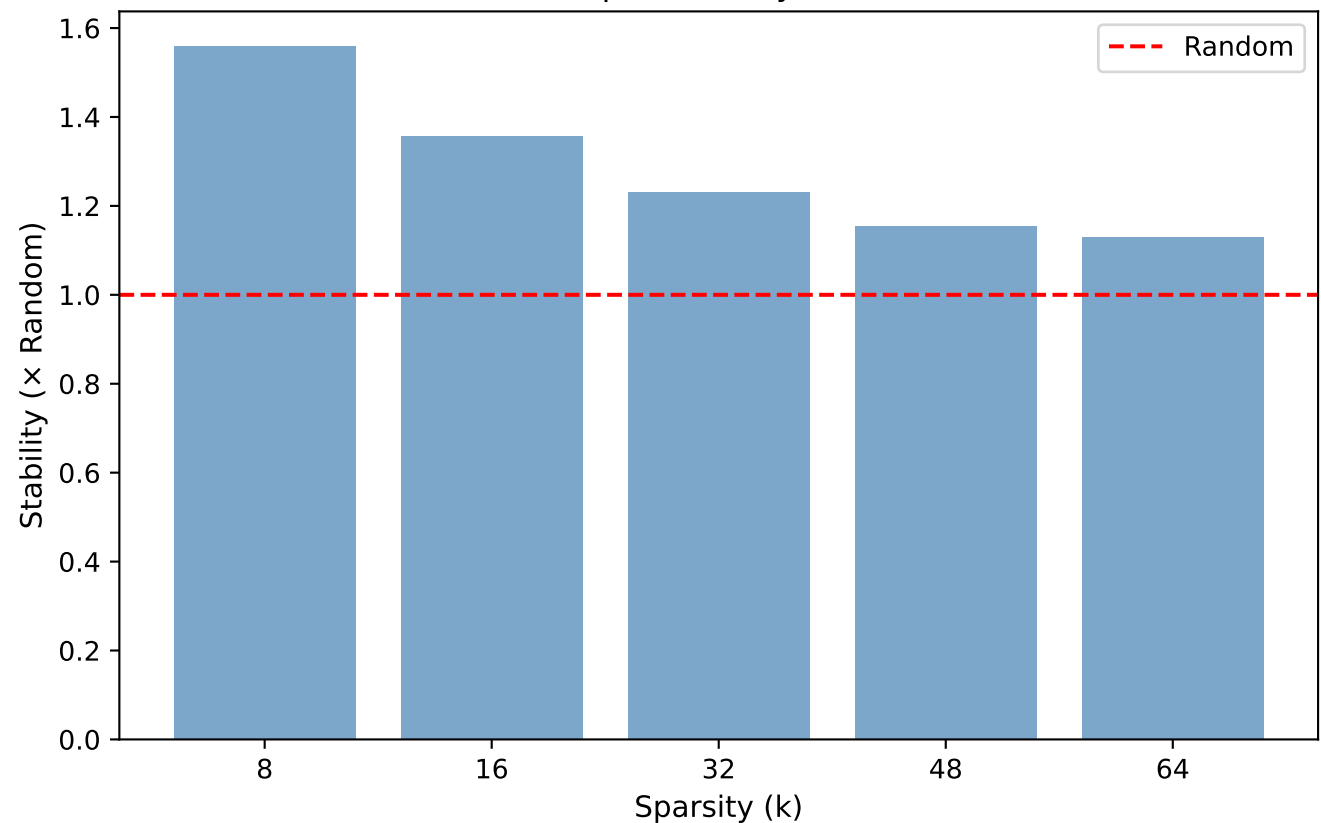
Stability vs Sparsity (All Architectures)



Stability-Reconstruction Tradeoff



TopK: Stability vs k



VERIFICATION SUMMARY

TopK:

L0 range: 8.0 - 64.0
 Stability range: 1.13 \times - 1.56 \times
 Correlation(L0, Stability): -0.917
 → CONFIRMS: Higher L0 = Lower Stability

ReLU:

L0 range: 59.0 - 65.1
 Stability range: 1.13 \times - 1.19 \times
 Correlation(L0, Stability): -0.999
 → CONFIRMS: Higher L0 = Lower Stability

Gated:

L0 range: 67.1 - 67.8
 Stability range: 1.21 \times - 1.22 \times
 Correlation(L0, Stability): 1.000
 → CONTRADICTS: Higher L0 = Higher Stability

JumpReLU:

L0 range: 26.9 - 26.9
 Stability range: 1.23 \times - 1.23 \times
 Correlation(L0, Stability): nan
 → WEAK relationship

CONCLUSION:

Overall correlation: -0.725
 ✓ VERIFIED: Stability DECREASES with L0
 across ALL architectures tested