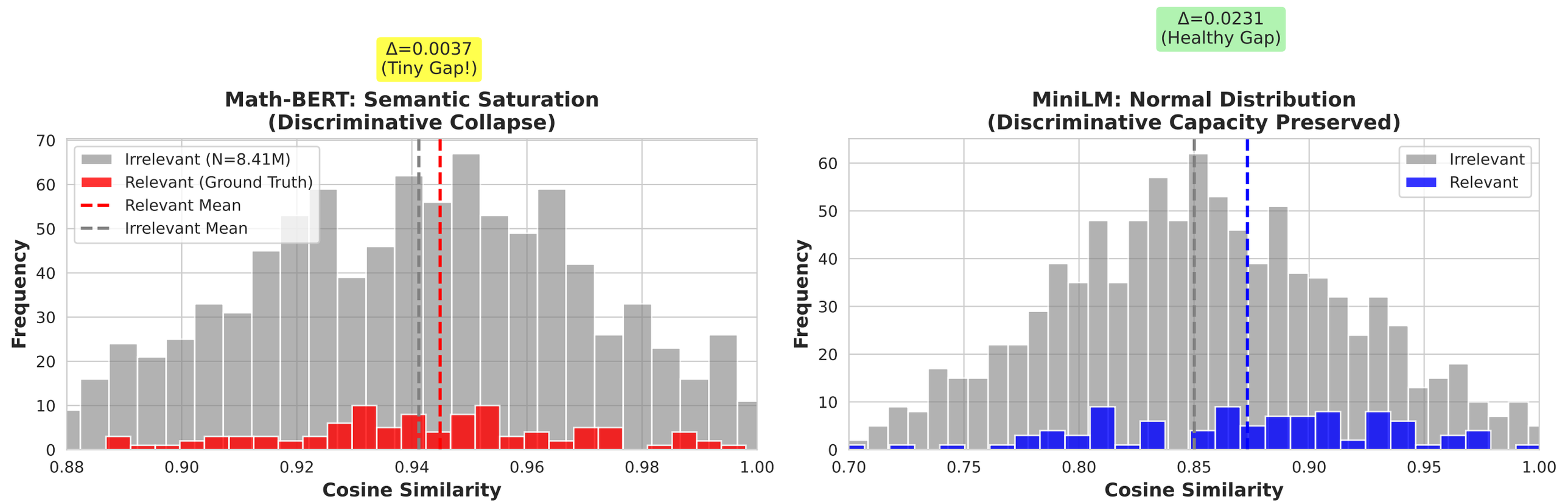
Δ=0.0037
(Tiny Gap!)
Math-BERT: Semantic Saturation
(Discriminative Collapse)
Irrelevant (N=8.41M)
Relevant (Ground Truth)
Relevant Mean
Irrelevant Mean
Frequency
Cosine Similarity
0.88
0.90
0.92
0.94
0.96
0.98
1.00
0
10
20
30
40
50
60
70
Δ=0.0231
(Healthy Gap)
MiniLM: Normal Distribution
(Discriminative Capacity Preserved)
Irrelevant
Relevant
Frequency
Cosine Similarity
0.70
0.75
0.80
0.85
0.90
0.95
1.00
0
10
20
30
40
50
60