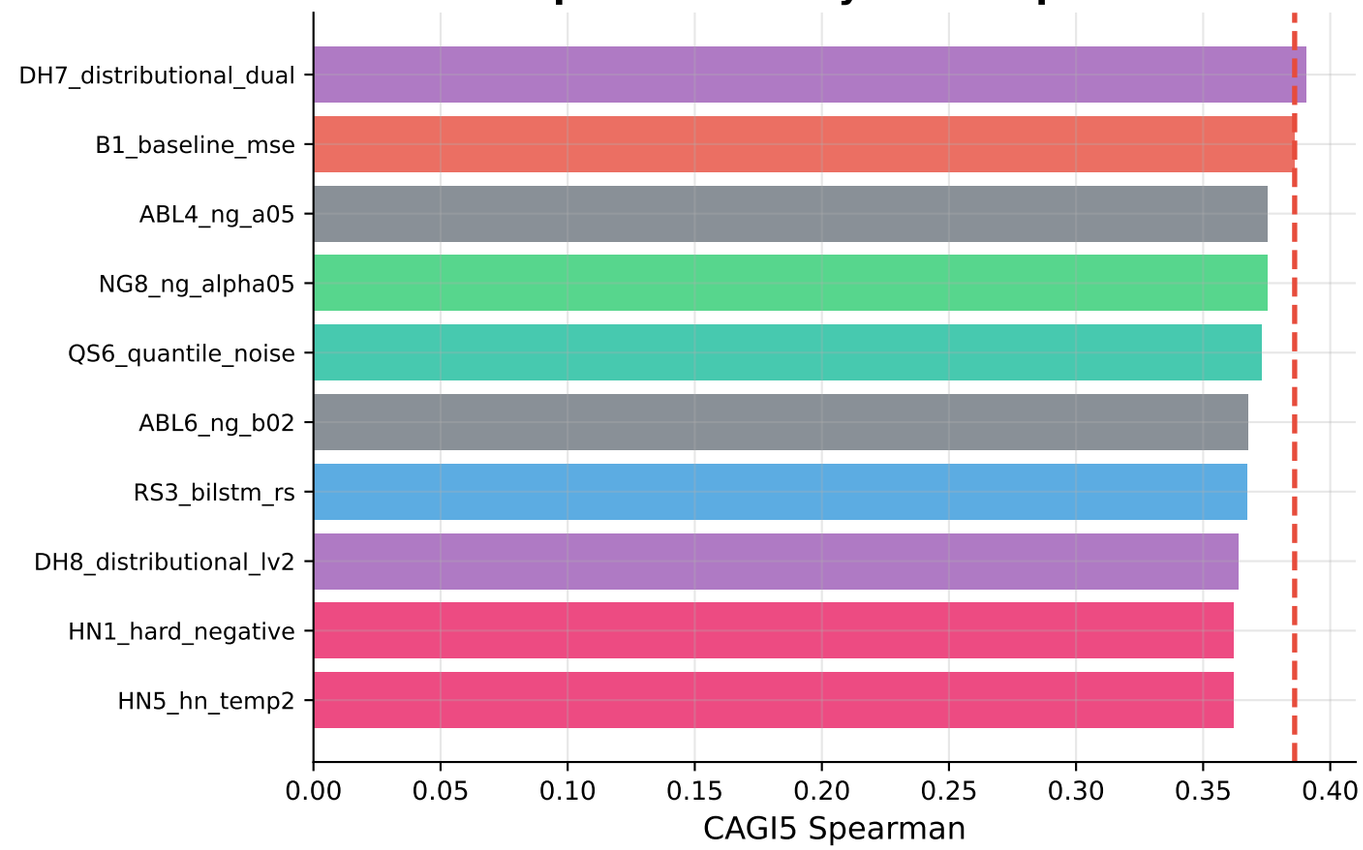
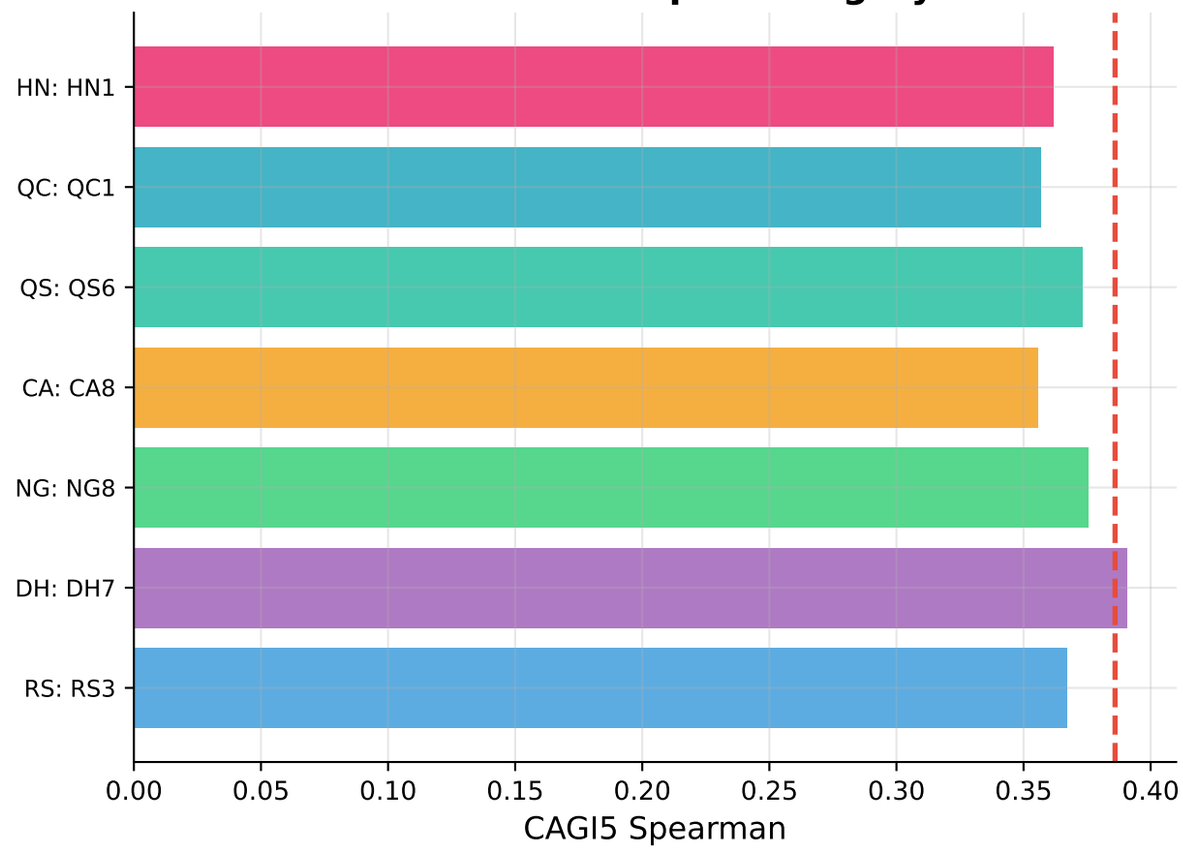
Executive Summary: Noise-Resistant Training Results

A. Top 10 Models by CAGI5 Spearman



B. Best Model per Category



C. Key Findings Summary

Metric	Best Model	Value	vs Baseline
CAGI5 Spearman	DH7	0.391	+1.3%
CAGI5 Pearson	DH8	0.557	+11.4%
HC Spearman	DH7	0.680	-1.0%
LC Spearman	DH7	0.227	+9.7%
Noise Correlation	RS3	-0.088	Negative!
Test Spearman	DH6	0.719	+1.6%

D. Recommendations

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RECOMMENDATIONS:

1. Best Overall: DH7_distributional_dual
   • Highest CAGI5 Spearman (0.391)
   • Strong low-confidence performance
   • Balanced HC/LC predictions

2. Best Noise Resistance: RS3_bilstm_rs
   • Only model with negative noise correlation
   • Good CAGI5 performance (0.367)
   • Robust to experimental noise

3. Best Pearson: DH8_distributional_lv2
   • Highest CAGI5 Pearson (0.557)
   • Strong linear relationship

4. Best Balance: ABL4_ng_a05
   • Top-tier CAGI5 (0.375)
   • Good noise correlation (0.024)
   • Optimal α=0.05 hyperparameter
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