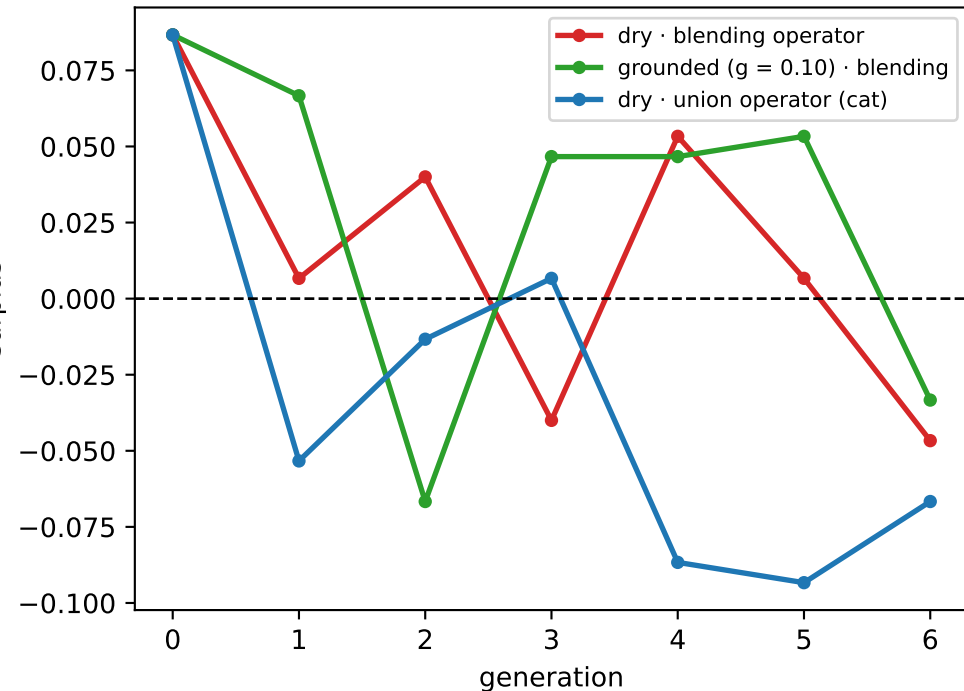
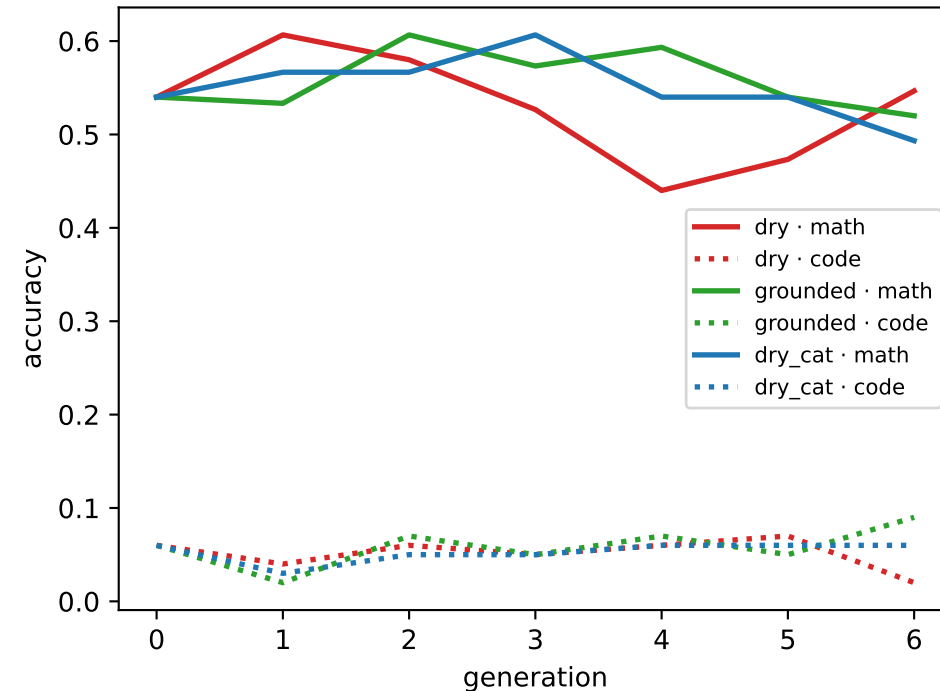


llm_compose — does a composed capability survive inheritance? (1 seed, mean $\pm$ 95% CI)

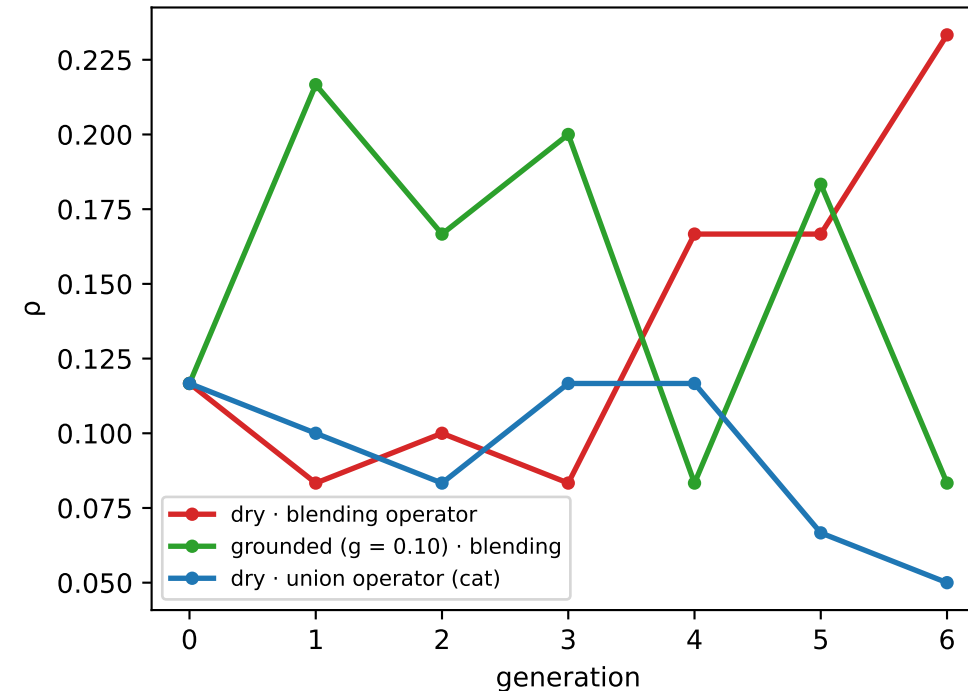
(A) composition surplus
composed – best single parent



(B) own-skill retention q_t
solid math (GSM8K), dotted code (MBPP)



(C) lineage correlation ρ_t
(agreement on a shared probe)



(D) H3: observed vs the closed form
 $\hat{C} = c_0 \cdot q_{\text{math}} \cdot q_{\text{code}} \cdot (1 - \rho) / (1 - \rho_0)$

