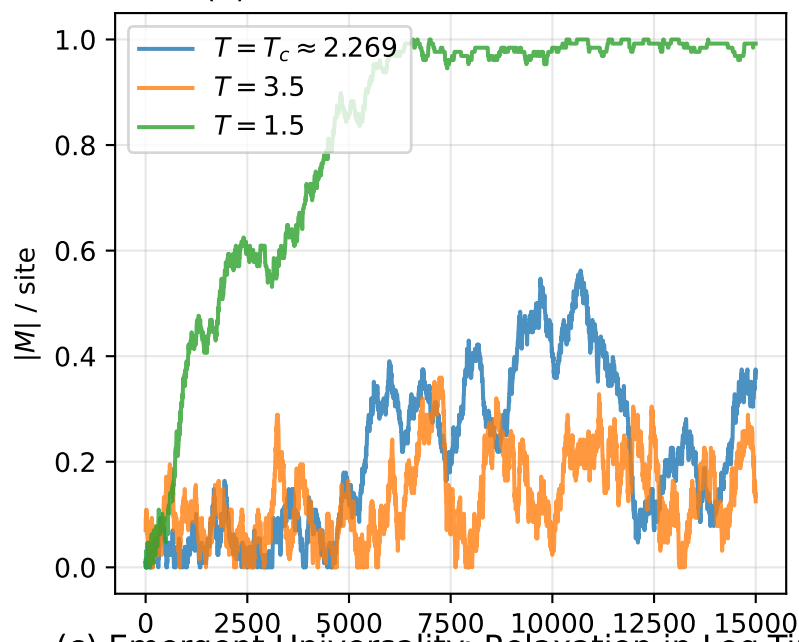
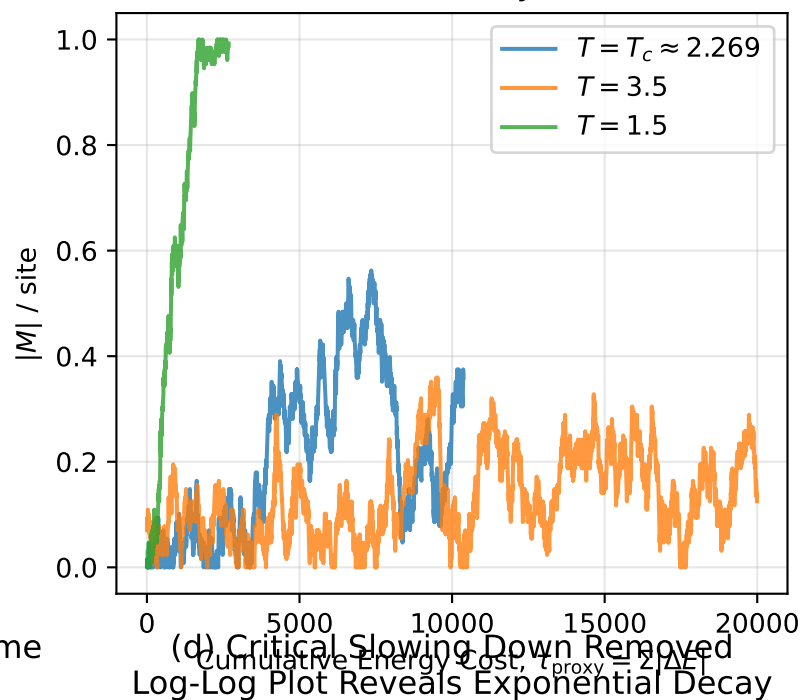


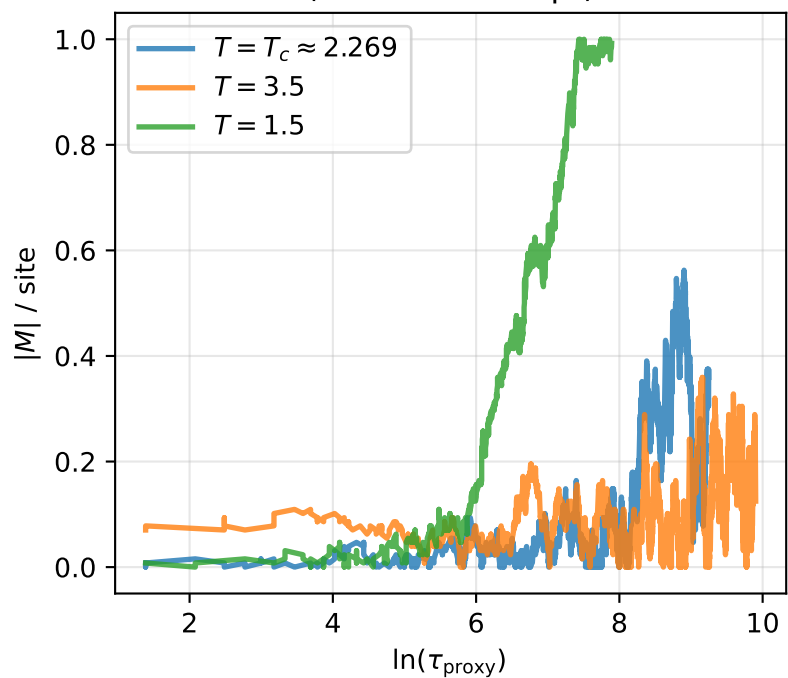
(a) Relaxation in External Time



(b) Relaxation vs. Physical Cost τ



(c) Emergent Universality: Relaxation in Log-Time (Proof of Concept)



(d) Critical Slowing Down Removed
Log-Log Plot Reveals Exponential Decay

