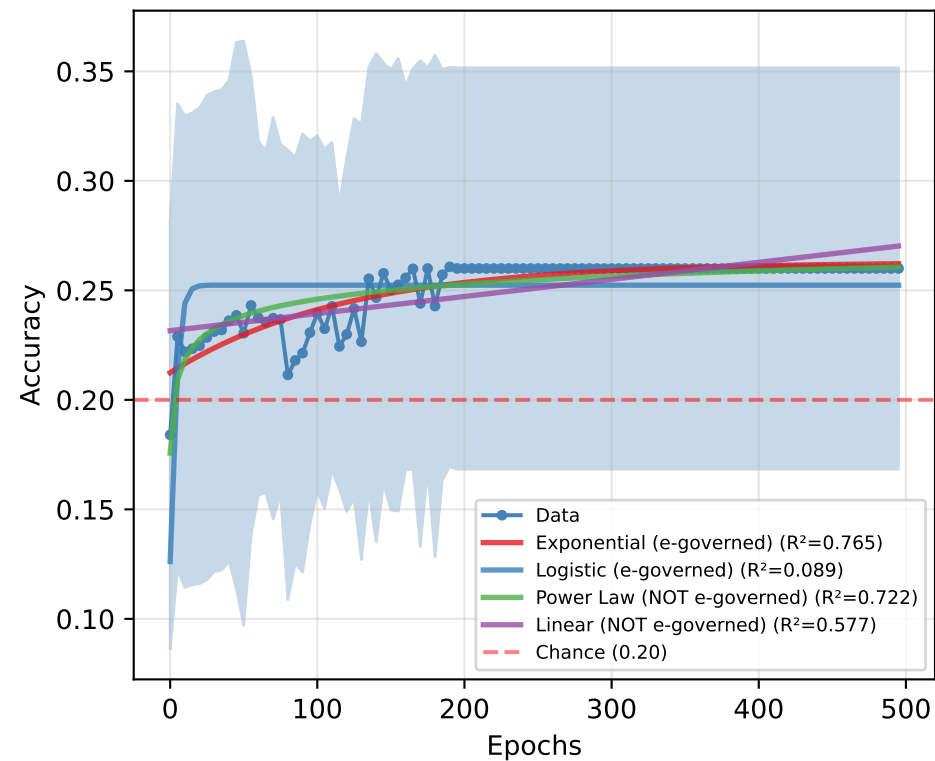
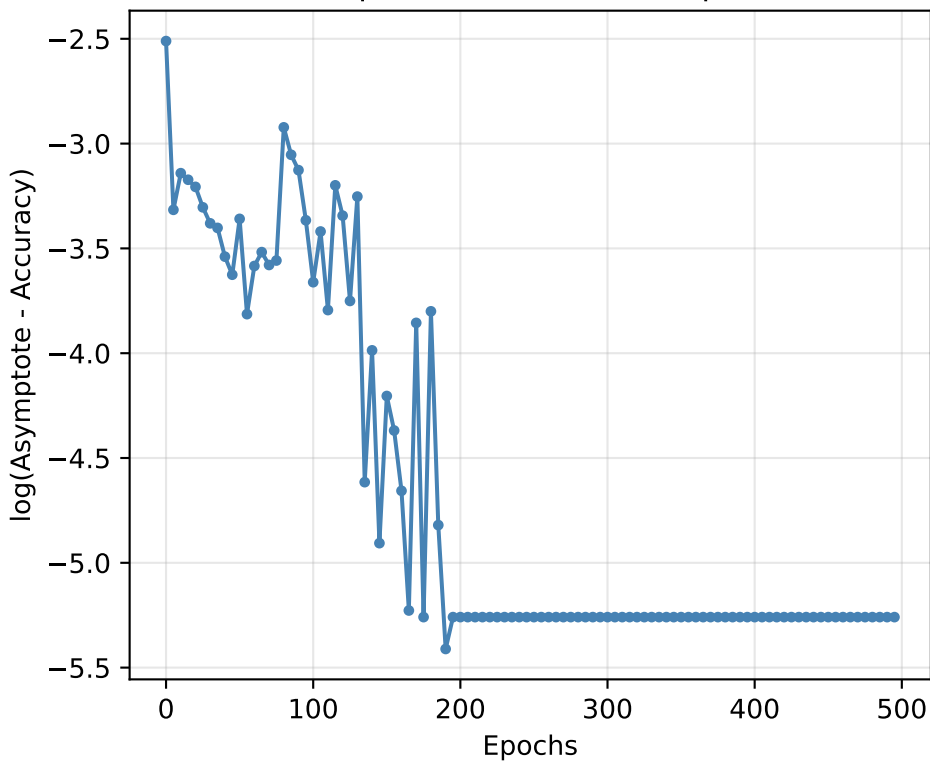


Study 3: Hebbian Learning (No Gradients)  
Self-Referential vs Non-Self-Referential

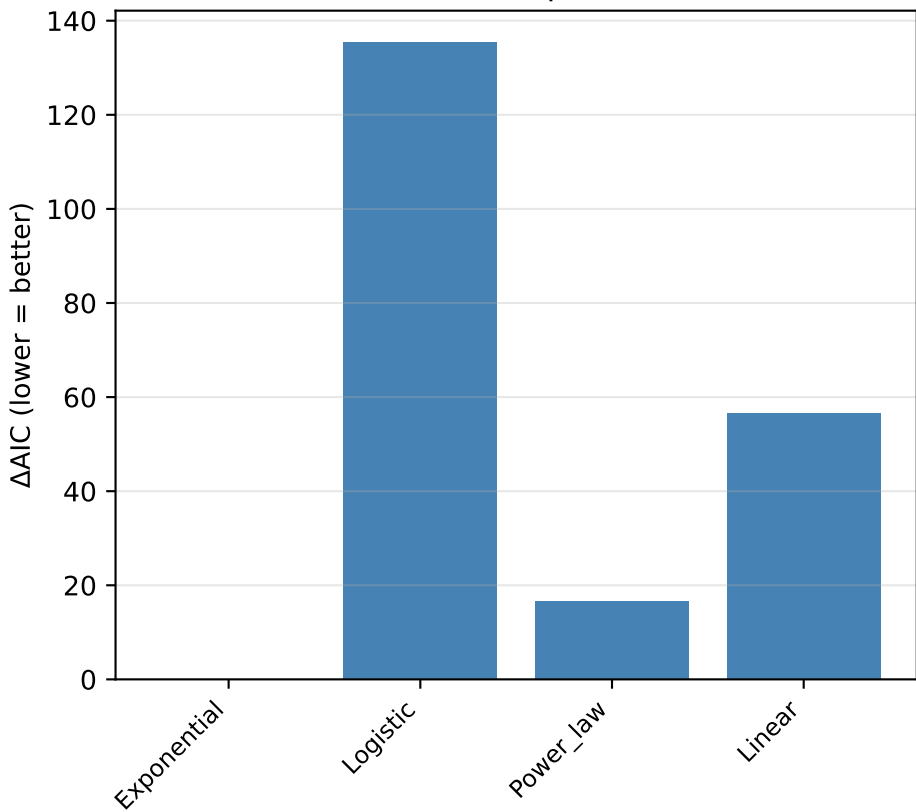
A: Self-Referential HEBBIAN  
(Predicts Own Hidden States)



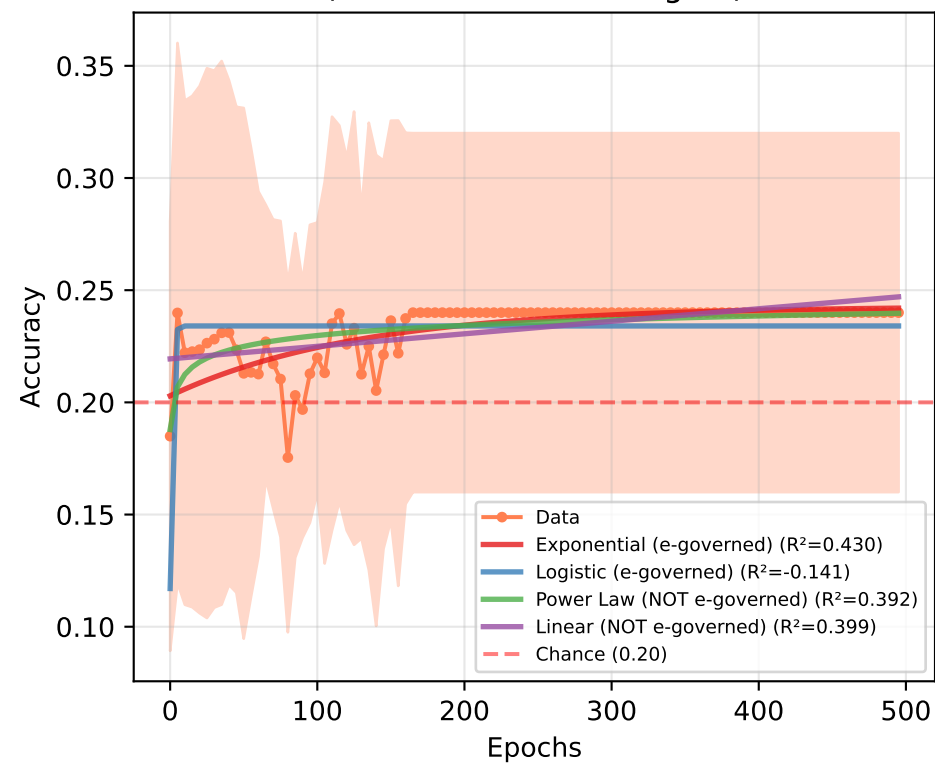
Log-Linear Plot  
(Exponential  $\rightarrow$  linear slope)



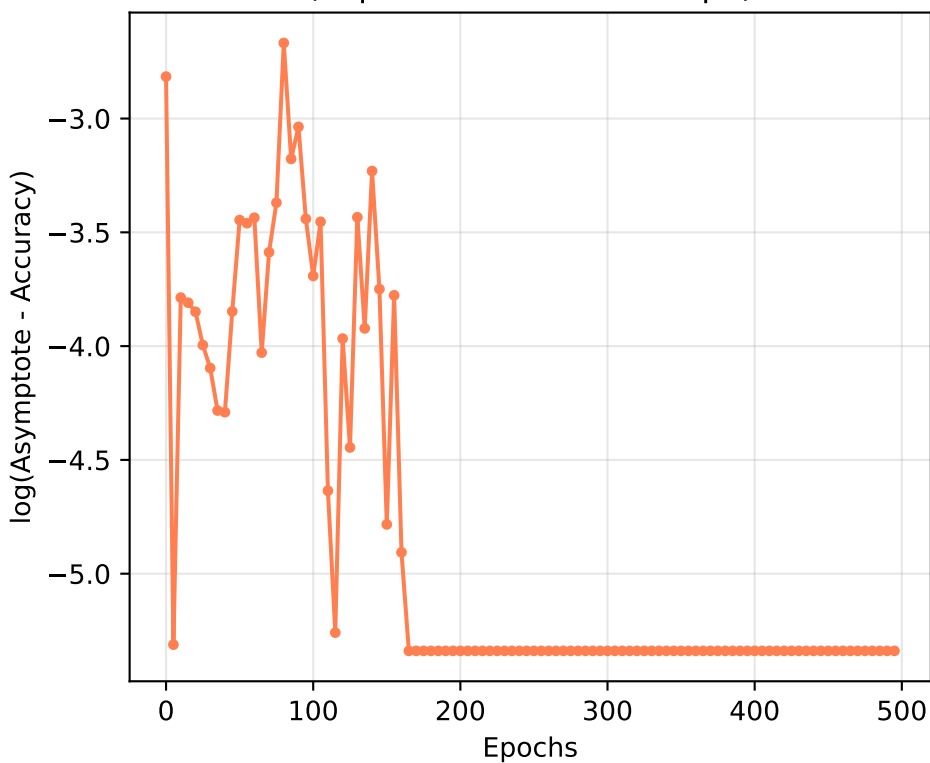
Model Comparison



B: Non-Self-Referential HEBBIAN  
(Predicts External Targets)



Log-Linear Plot  
(Exponential  $\rightarrow$  linear slope)



Model Comparison

