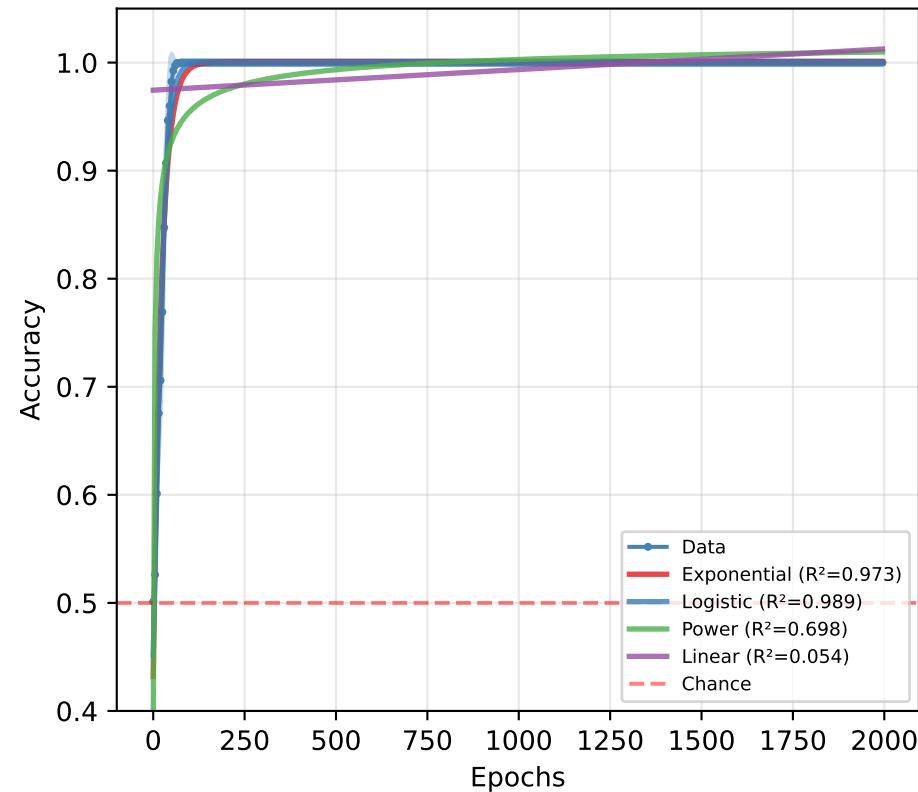


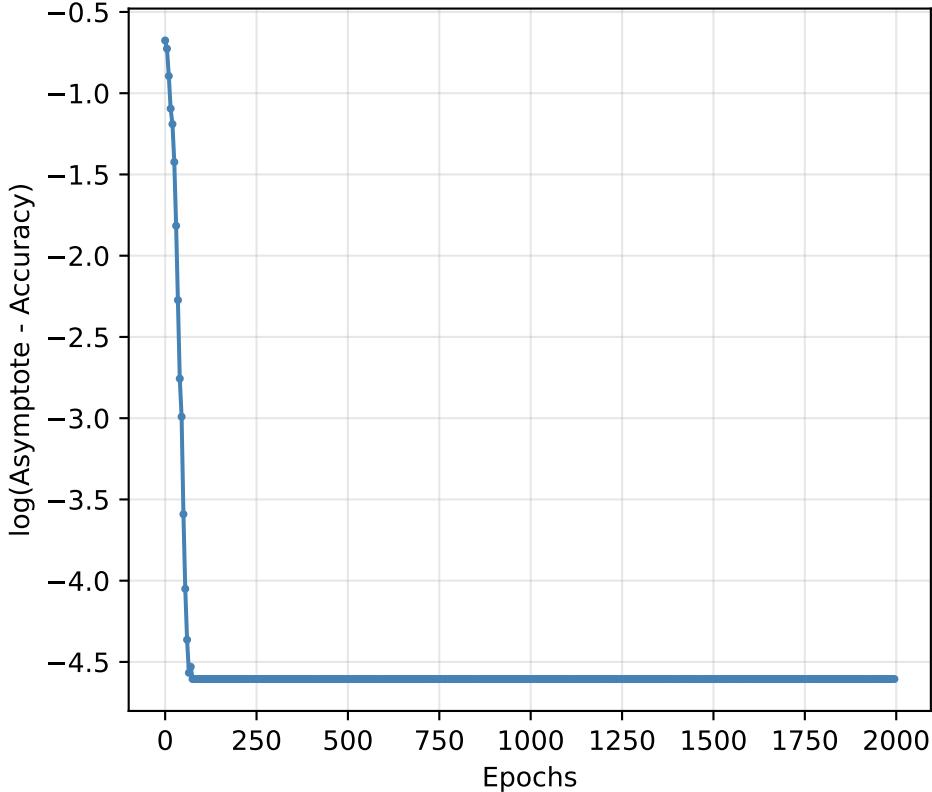
# Study 4: Compositional vs Non-Compositional Task Structure

## Does COMPOSITIONAL structure produce different dynamics?

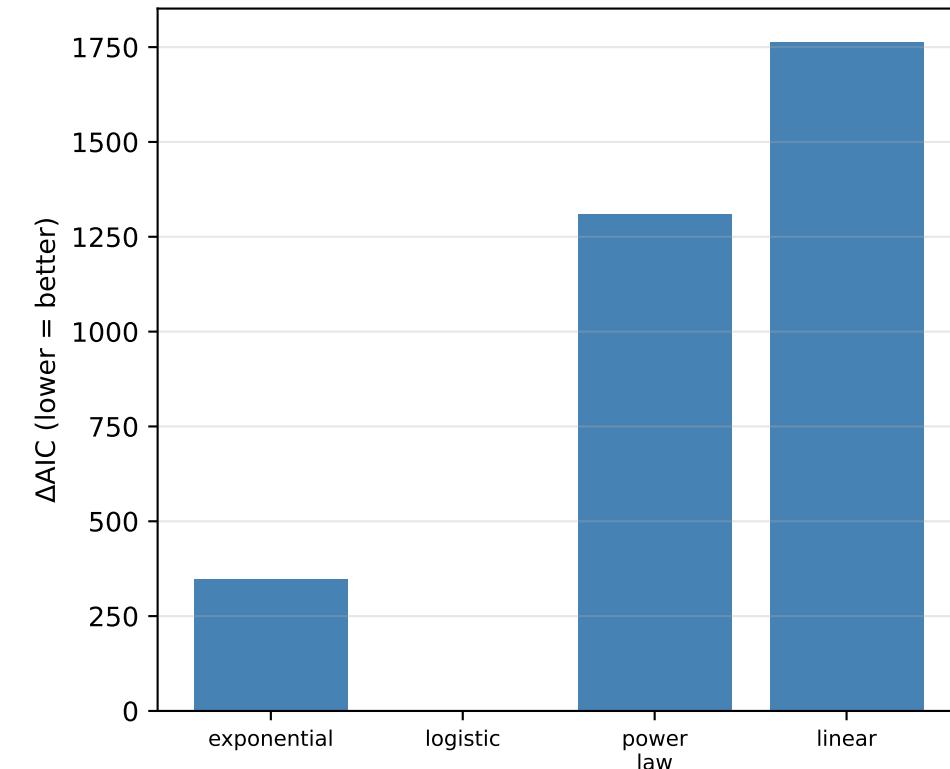
**A: Hierarchical XOR (Compositional)**  
"Parity: Each step builds on previous"



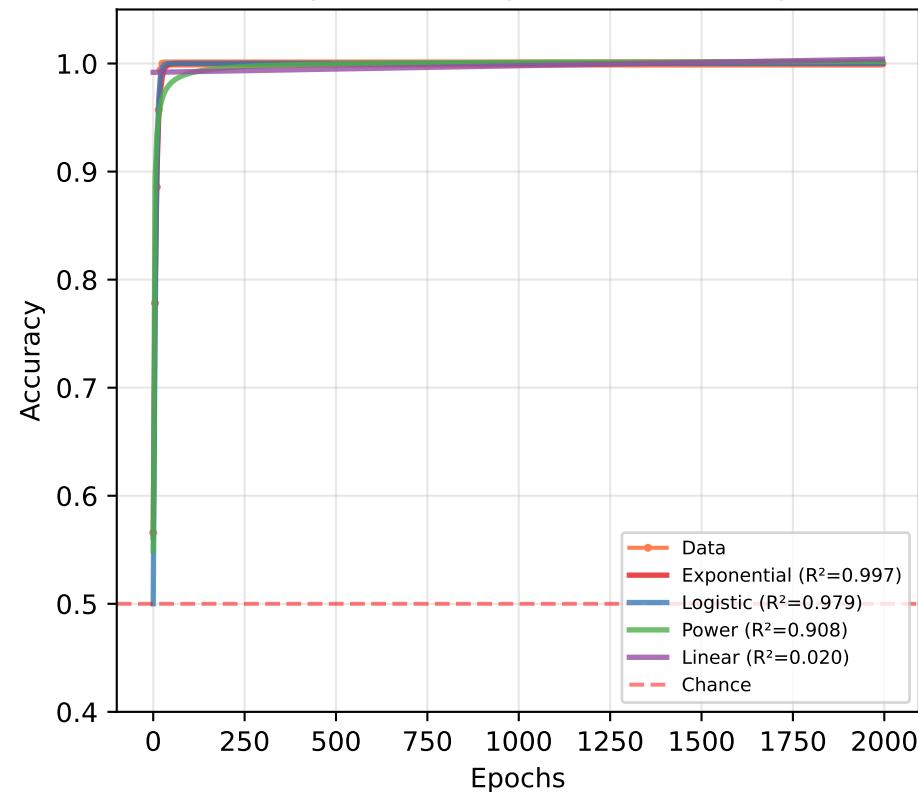
**Log-Linear Plot**  
(e-governed  $\rightarrow$  linear slope)



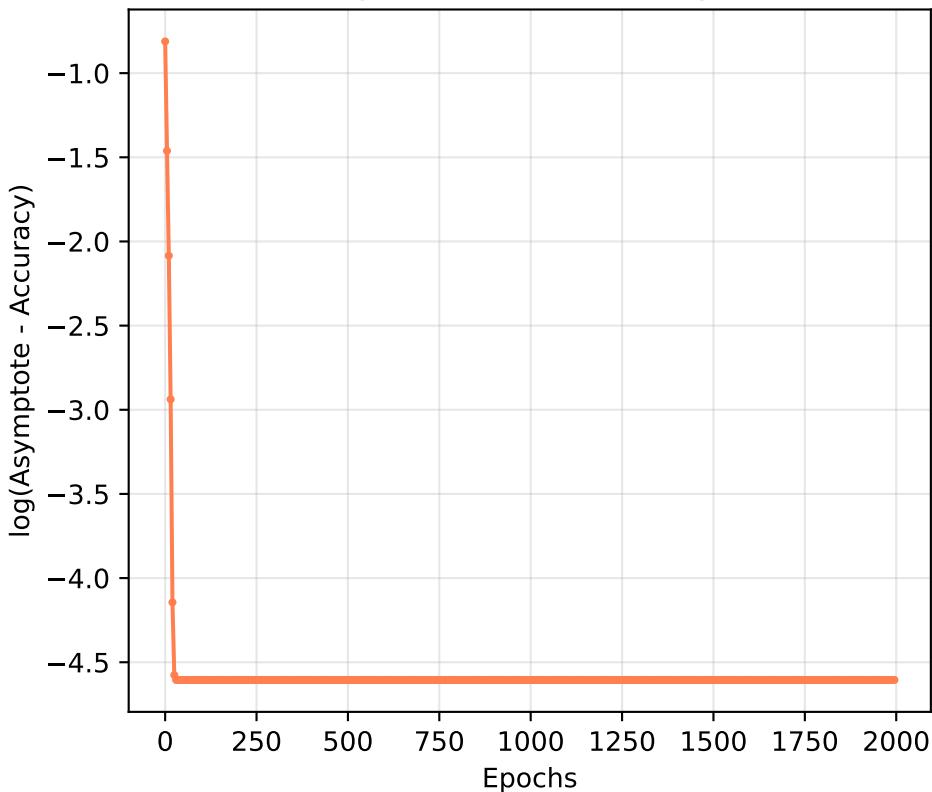
**Model Comparison (Compositional)**



**B: Parallel XORs (Non-Compositional)**  
"Independent outputs, no hierarchy"



**Log-Linear Plot**  
(e-governed  $\rightarrow$  linear slope)



**Model Comparison (Non-Compositional)**

