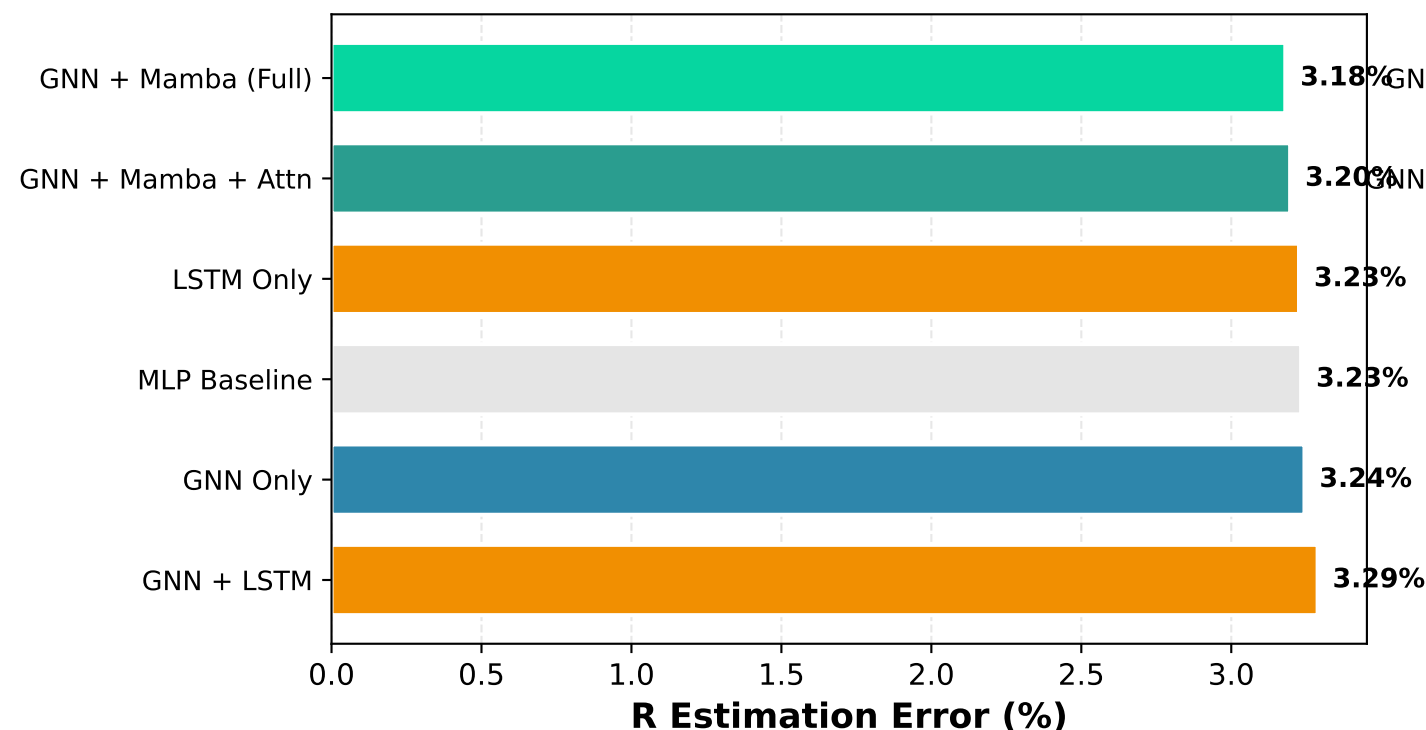
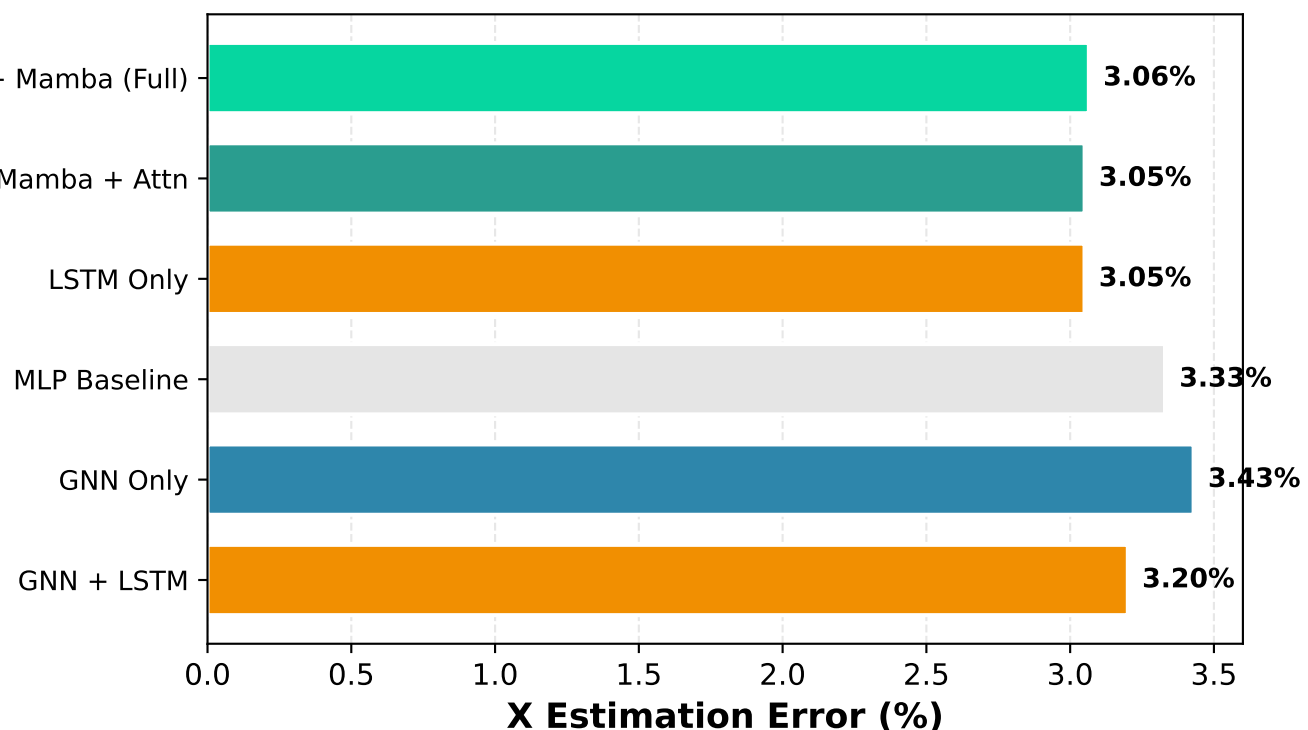


# Graph-Mamba Ablation Study: Component Analysis

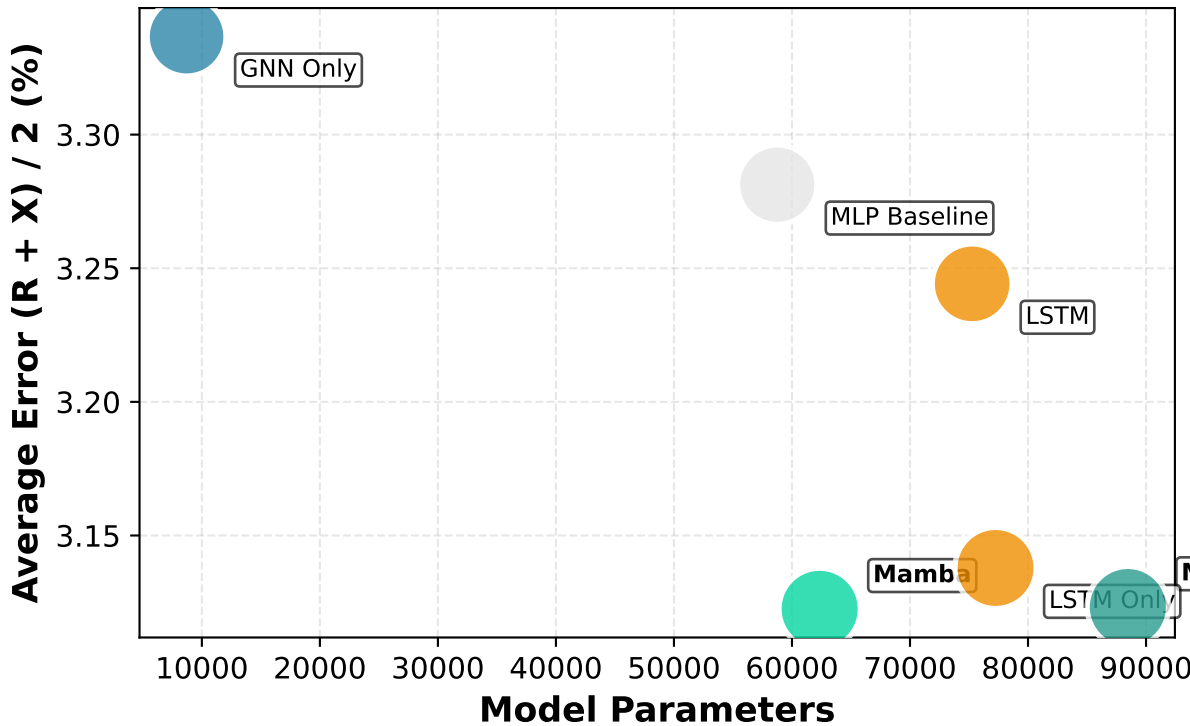
(a) Ablation Study: R Parameter Error



(b) Ablation Study: X Parameter Error



(c) Model Complexity vs Performance  
(Bubble size  $\propto 1/\text{error}$ )



(d) Component Contribution Analysis  
(Positive = Better)

