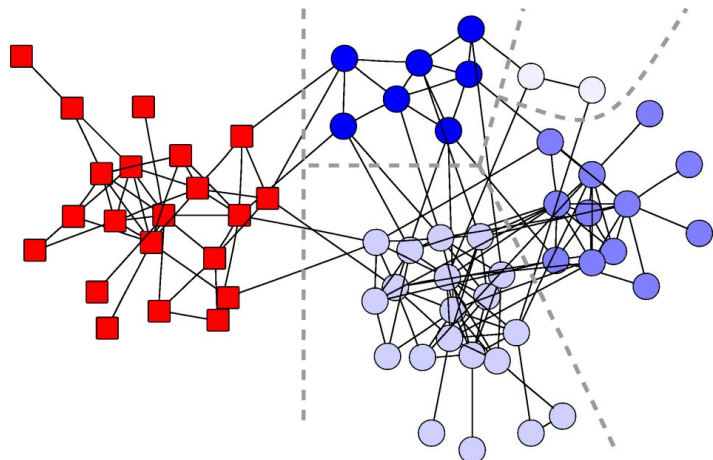


## LUSSEAU PHD THESIS



# dolphins = 62  
# edges = 159

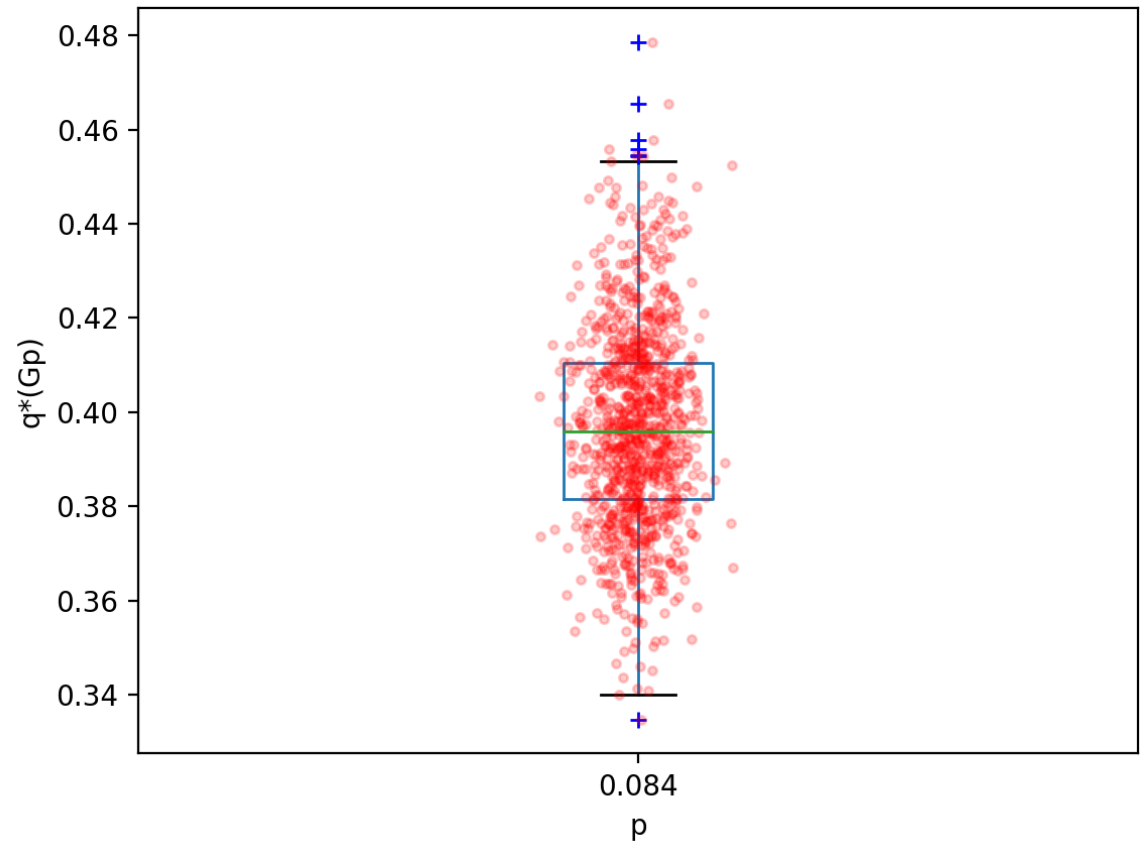
$$q^* = 0.52$$

8.4% of possible edges

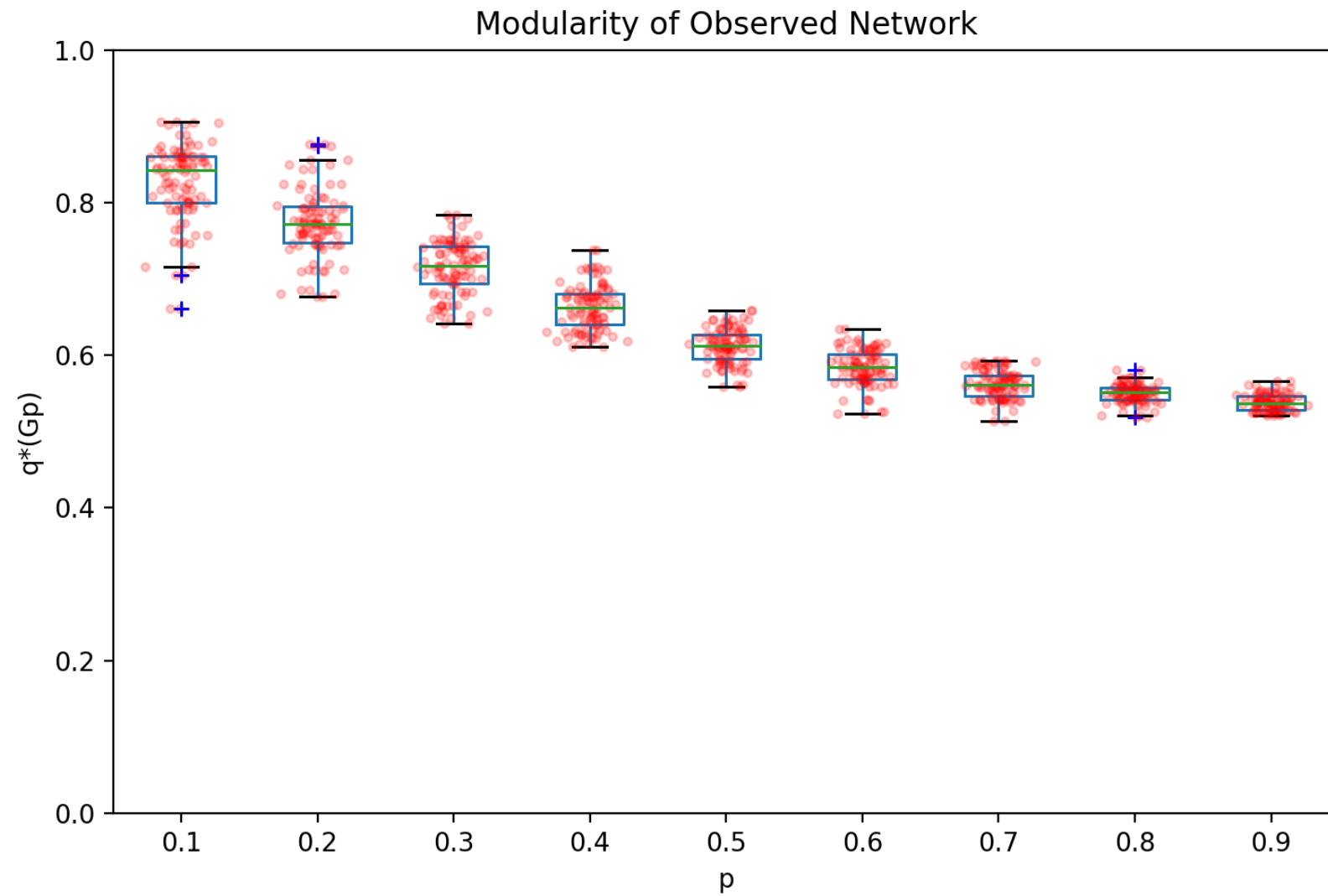
## RANDOM DATA

$$q^*(\text{dolphins}) > q^*(\text{random network})??$$

Modularity of Random Network on 62 vertices



# SIMULATIONS



## SIMULATIONS

Modularity score of underlying graph with partition from observed graph

