



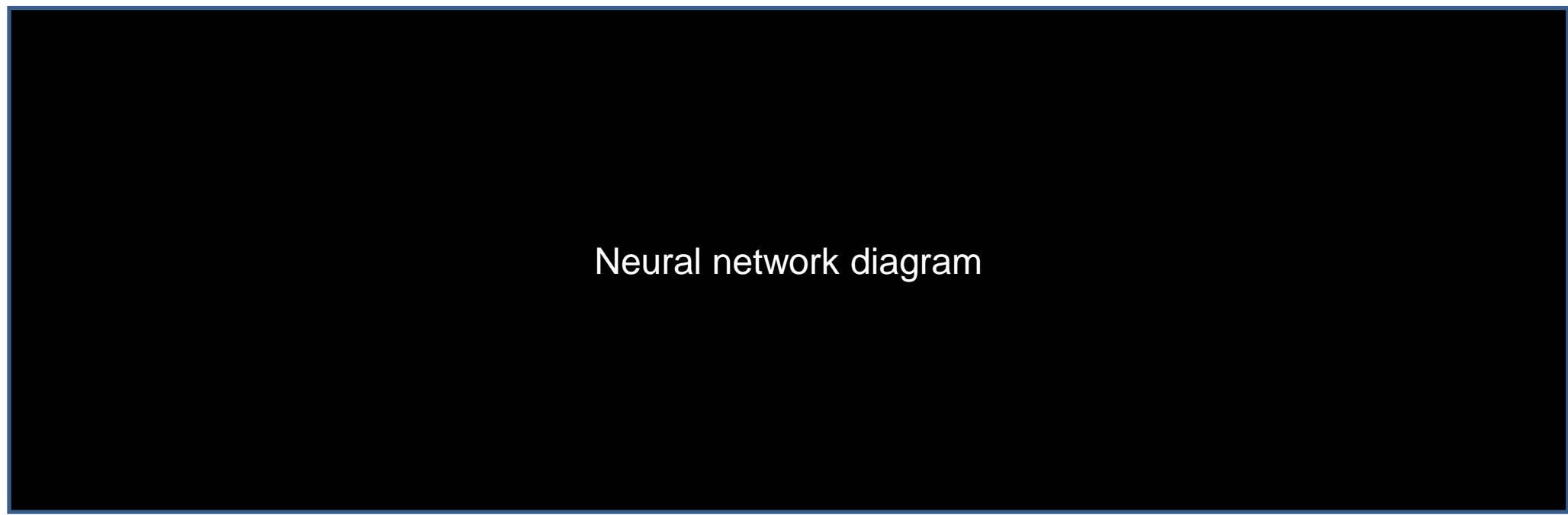
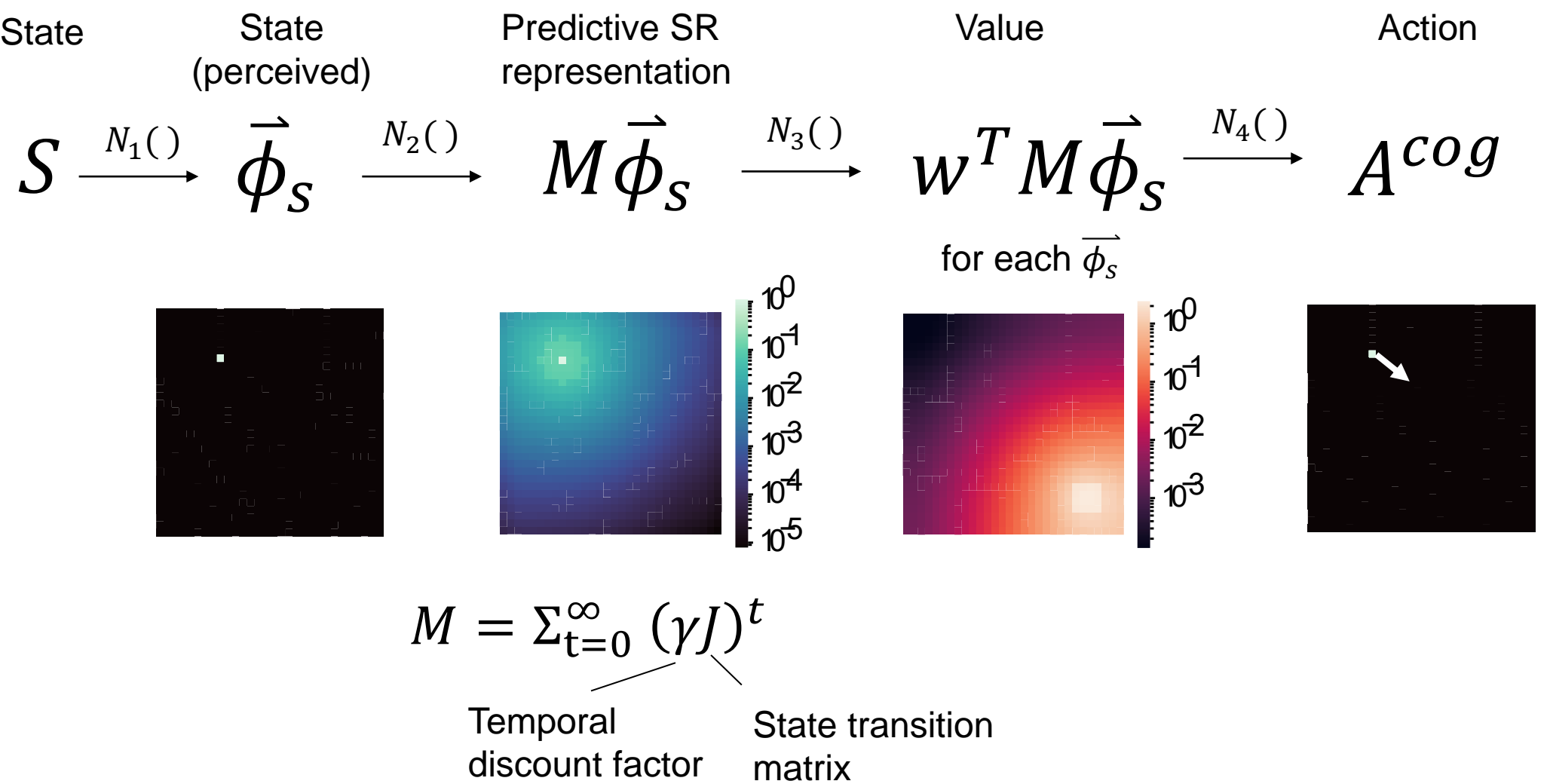
# Bridging cognitive, statistical, and neural descriptions of multi-agent bird foraging behavior

(First names of authors increase interaction potential)

Why care about bird foraging – we focus on communication

Three different goals, descriptions, and citations (table)

## Cognitive, neural, and statistical descriptions of decision-making



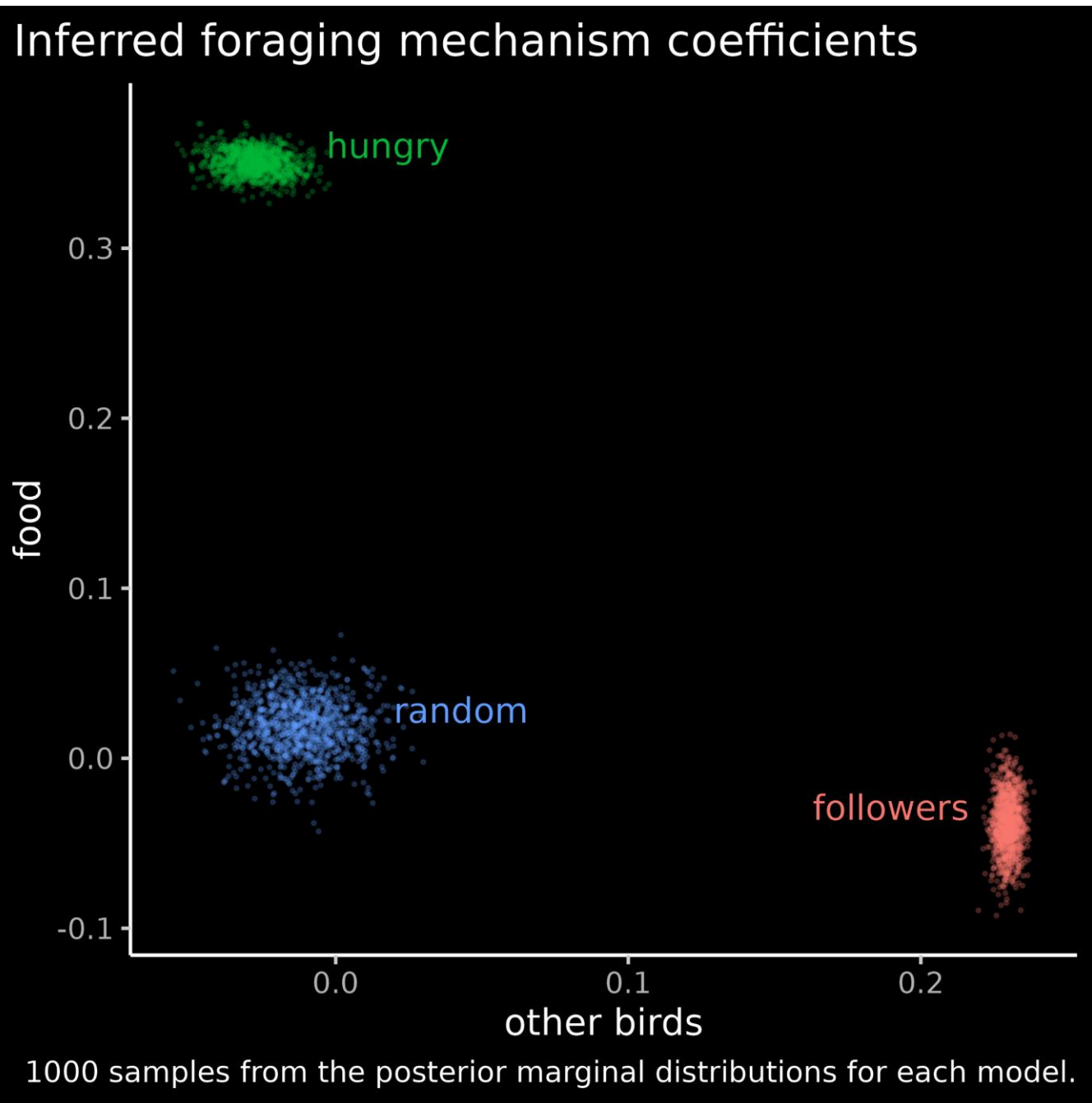
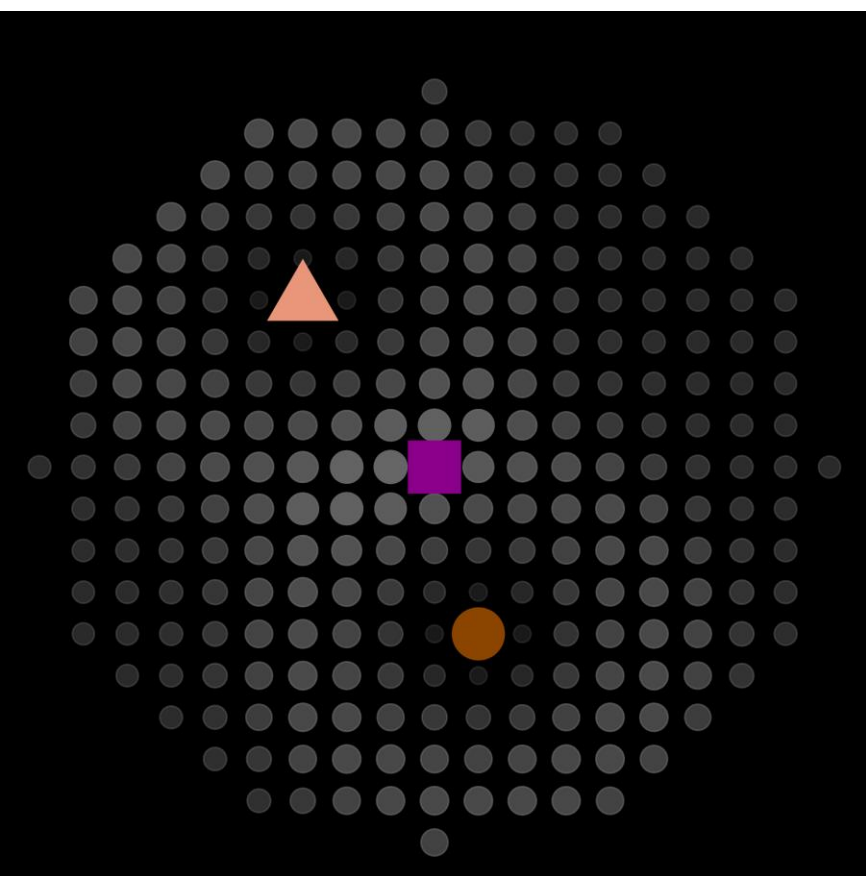
Under certain conditions, the most likely action is given by

$$A_S = \operatorname{argmax}_A P(A|S) = A^{cog} = A^{neuro}$$

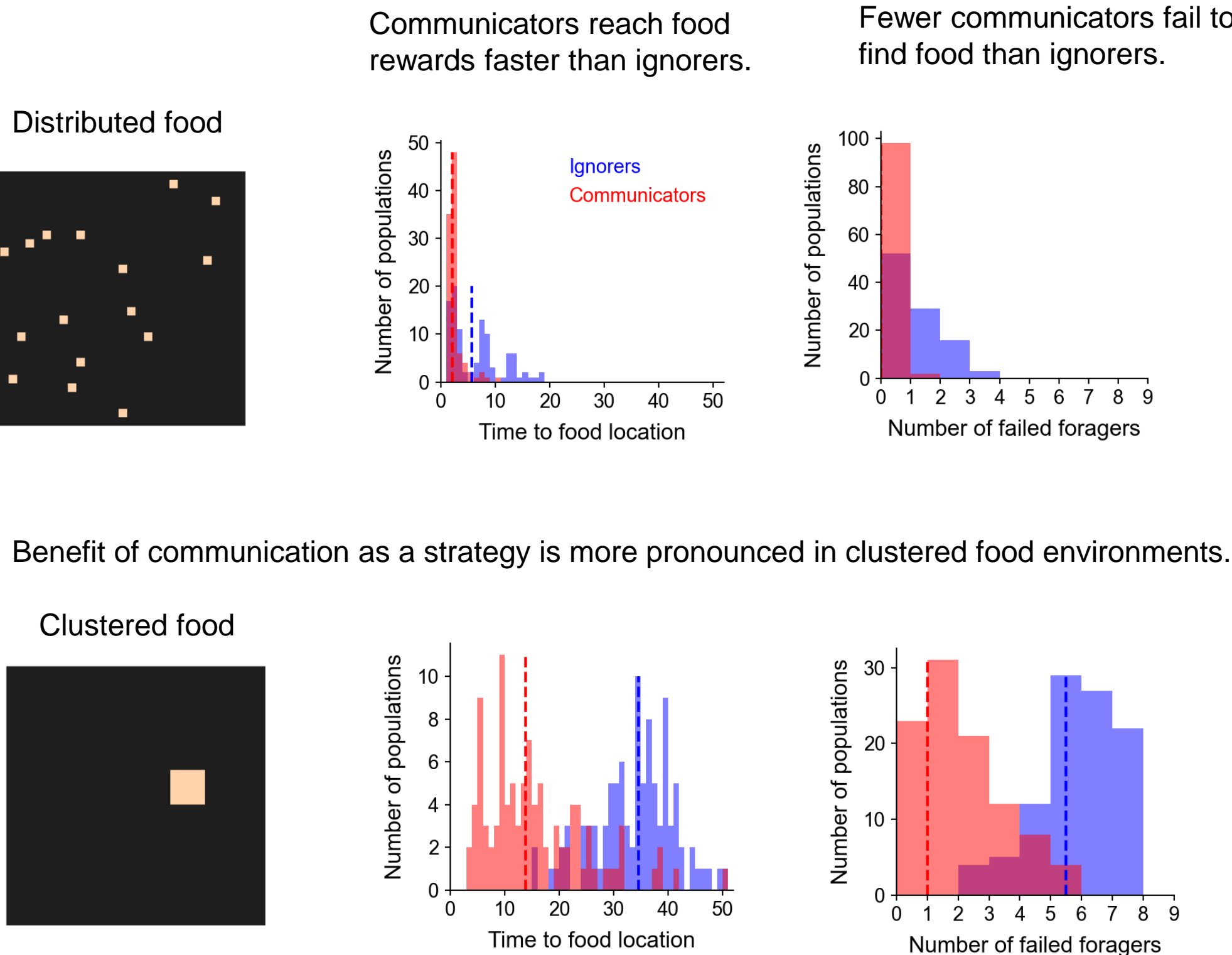
## Translating between cognitive, neural, and statistical descriptions



## Statistical inference



## Toward an understanding mechanisms of communication in multi-agent bird flocks



## Field work