

# Individuals

**System**  $\Rightarrow$  Metabolic rate & fitness

**Environmental forcing**  $\rightarrow$   
(Temperature, Space)

**Traits:** Body size, Thermal sensitivity, Respiration rate, Body velocity, etc.



*Why the fancy bidirectional arrows?*

**Traits:** Interspecific distributions of Body sizes, Thermal sensitivities, etc.



**Traits:** Encounter & Attack rates, Handling time, Physiological mismatch, etc.



## Interaction networks

**System**  $\Rightarrow$  Multi-population dynamics & community stability

## Interactions

**System**  $\Rightarrow$  Coupled population dynamics & mean fitness