**Winter School Project: Introducing Modifications to LakeLand**

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1. **Motivation and Research Question**

What is the impact of biased information on human behavior?

Introducing spatial components to the original Lakeland model

Introducing heterogeneity of utility functions through the gamma value

Introducing the role of memory

1. **Brief description of changes to base model (new functions, variables, entities, interface, details can be documented in Netlogo infotab)**

Introducing spatial components to the original Lakeland model

* Turtles can now move around in space. The speed at which they move
* Turtles who are using mental models of imitation and social comparison look at a radius of turtles around them to make these decisions. This radius can be varied through a slider. In the original model turtles looked at all other turtles in the world when making decisions (perfect information).

Introducing heterogeneity of utility functions through the gamma value

* Added the ability for turtles to have different preferences in their utility function. Heterogeneity can be turned on/off through a switch in the interface. When heterogeneity is on, variability of the gamma can be determined through the slider “level\_of\_variability\_gamma”. This takes into account the gamma parameter from the interface slider and varies turtle gammas around this point.

Introducing memory

Flock Function

Color / Size of Turtles (?)

1. **Model exploration (scenarios/experimental design, parameter settings, etc.)**
2. **Results**
3. **Reflections on results and exercise**

***Please include your Netlogo code***