**IBM Parameters**

**Population Level Parameters:**

* h - increase in probability of death for uninformed
* nl - naive learning probability
* si - social interaction probability, how social a species is
* K - carrying capacity
* N0 - starting number of individuals
* t - time of simulation, turns in simulation
* d - vector of age based birth and death rate
* maxAgeClass - max age class in order to get a proportion of age class for age class based rates of naive learning, older individuals learn better than younger
* vertTransmission - vertical transmission of interactions, whether mother and offspring interaction are shared for the first year, 0 if false, 1 if true

**Individual Level Parameters:**

* alive – status of living of individual, 0 if false, 1 if true
* sex - coinflip for sex of individual, 0 if false, 1 if true
* age – age of individual drawn from poisson distribution
* informedProb - probability of knowing information drawn from beta distribution
* informed – status of knowing info, 0 if false, 1 if true, informedProb modified by age class proportion and rounded to 0 or 1
* boldness - boldeness of individual, probability of interacting with another individual, drawn from beta distribution
* mother - number of mother of individual, allows tracking of heredity
* birthYr - turn in simulation that the individual was born