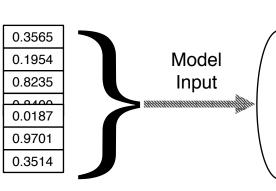
## Create truth data (run once)

**Priors** 

?

Begin by defining the model input and running it to create the hypothetical reality ('truth')

Pre-defined list of random numbers



Model Output

Pedestrian

Model

Observe Truth
Data

Truth Data (no. agents in system per iteration)

Parameter estimation (repeat for N samples)

Re-run the model as part of a Bayesian network, attempting to estimate the input numbers by constraining to the noisy truth data.



Pedestrian Model

Model Output

Model output (no. agents in system per iteration)

**Posterior**