**README – Sentences\_RLModels**

File ‘Sentences\_RL\_Models.m’ determines least fit values for each model by calling each model function and using minfitcon function.

Files ‘Sentences\_Model\_n.m’ where n is the model number.

* Model 1 = Learning rate, temperature, and initial values are all fixed parameters (not actually a function as no fits are needed – this model is engrained in the ‘Sentences\_RL\_Models.m’)
* Model 2 = Learning rate is a free parameter, temperature, and initial values are all fixed
* Model 3 = Learning rate and temperature are free parameters, initial values are all fixed
* Model 4 = Learning rate, temperature, and initial values are all free parameters

File ‘RL\_Computational\_Model.m’ will run a standard reinforcement learning computational models with the inputs of ‘Sentences\_ModelFitOutcome.mat’ (i.e., parameters determined from ‘Sentences\_RL\_Models.m’.

File ‘Sentences\_ModelFitOutcome.mat’ is the parameters determined for each simulation and each model when running ‘Sentences\_RL\_Models.m’