There are three Matlab function files that creates the model. First is AgentModeler which is the interface function of the model. The agent model is the to be called when you want to run the model. You give AgentModeler initial parameters to create the agents with the specific properties and the time frame of the model. AgentModeler will then call the other two functions to run the simulation and output a matrix of structures which contains each agent at each time step with the specific properties defined in the input and the vector of time steps in the simulation.

The next function is FullyConNetModel1by1 which handles the network side of the model. This function simply selects two distinct agents at random and get them to interact every time step in the model. Lastly is the BayesInteractionFixedP which is the core of the model. It is an extended version of the model found in (Martins 2009) where the agents can share their uncertainty. Essentially agents update their opinion and uncertainty based on rules derived from applying Bayesian statistics. This interaction function updates both interacting agents' opinion and uncertainty. For BayesInteractionFixedP to work in AgentModeler, AgentModeler needs to be given the two properties, 'x' and 'sig', to give to the agent or the model will simply not work. BayesInteractionFixedP also needs to be put through an anonymous function defining out its 'p' input. More details on the functions themselves are in their function description.