**An individual-based re-nesting model implemented in NetLogo**

NetLogo can be downloaded from <https://ccl.northwestern.edu/netlogo/>

The .nlogo file (the model) and all of the .xlsx files should be downloaded to the same folder.

You also need to create/include a folder nested within that same folder called “NETLOGO OUTPUTS” (an example is included in the repository, containing example outputs). After a successful model run this will be populated with six output files, some of which can be analysed using the R code provided. If output files are already in the folder, they are over-written by NetLogo during a model run, so move any you want to keep.

Two versions of the model are uploaded which have been pre-populated, one for the black redstart data (with the observed re-nesting probability functions shown in Figure 1a), and one for the yellowhammer data using the empirical re-nesting probability function (with the observed re-nesting probability functions shown in Figure 1b).

The R code provided explains/recreates some of the R work carried out in Sections A and C of the Methods/Results. The data for this code is from the NETLOGO OUTPUTS folder, mentioned above. It can either be run using the example outputs provided, or your own model runs.