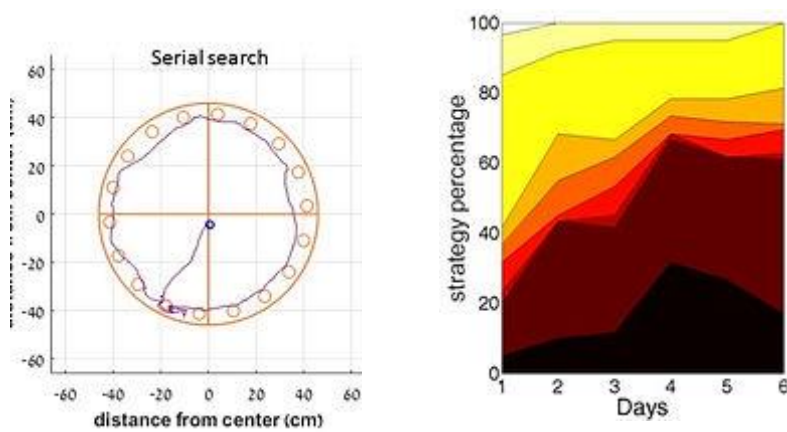# BUNS

Barnes maze **U**nbiased **S**trategy **C**lassification

BUNS is an automated method for machine-learning classification of Barnes maze searching strategies, compatible for AnyMaze and EthoVision users.

BUNS Manual

A. Extract data from your tracking software:
   1. AnyMaze (*.slk files).
   2. EthoVision (*.xls / *.xlsx files).

B. Order your files by day, strain, treatments etc. in different folders.
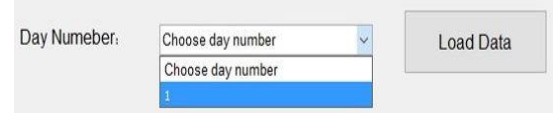
C. Insert the details of your project:
   1. Project's name: in letters only (myProject).
   2. Table's diameters: in centimeters (150).

   3. Select your tracking software: AnyMaze or
     EthoVision.

D. To add data to the panel, add a new day by
   choosing a day number. You can always add new
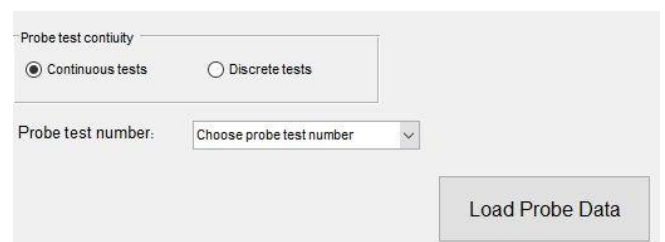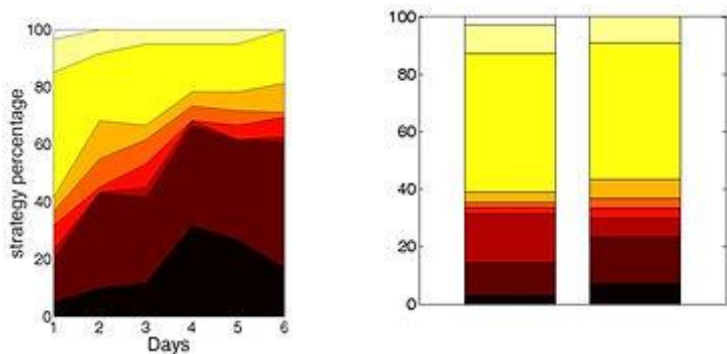   trials to existing days. Click Load Data.

E. Browse and select your files for chosen day, .slk files for AnyMaze
and .xlsx for EthoVision.

F. You can add a Probe test to your
analysis, even without adding any
acquisition phase data at the previous
stage:
   1. Click Add a probe test.

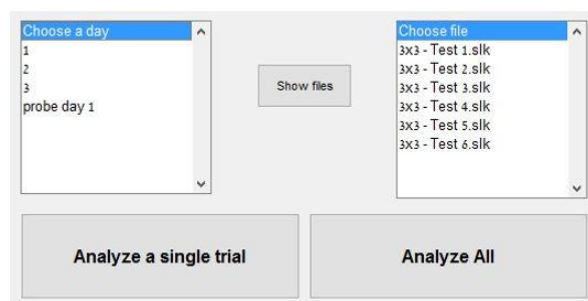   2. Choose a continuous or discrete analysis:

4. Load your probe data by day as described earlier.

G. On the Days panel, a list of days
   and probe days will appear.
H. By choosing a day and clicking on
   Show files you will be able to choose
   a file and Analyze a single trial.

I. By clicking on Analyze all, BUNS will
    analyze all your data by days and probe tests.

J. A panel will open, asking you to
center 3 or less trials and choose a
target hole. You will be able to
move and resize the plot.
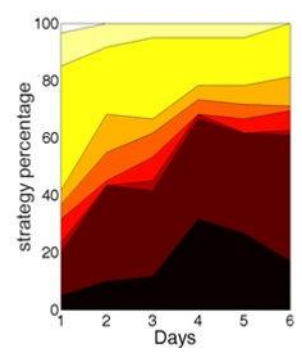This stage repeats itself 3 times.
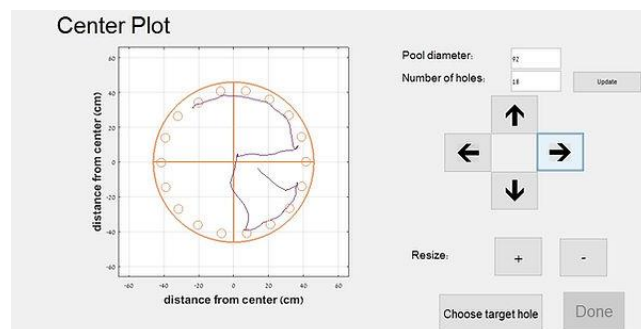
J. **Now the analysis is taking place!**
   this might take a few minutes.
K. Once the graphs appear, you can save it by clicking
   on Export graph.
 L. You can also save an excel file including trials details and
cognitive scores.

For download, please sent an email to:
tomerillouz@gmail.com