**MOVEMENT TRACKING GUI PLAN**

Have sliders for:

1. velocity threshold?
2. Erode 2 shape: should the user be able to select between different shapes?
3. Close 2 shape size (octagon).
4. Ratio threshold

Then need:

*1st screen*

- inputs: animal ID, raw video files directory, save directory

- “start using gui” button

*2nd screen*

- play button to play the video with the chosen parameters.

While playing should show: fully eroded; fully closed; blob detection.

Having a plot of the movement trace data would also help.

- Help button to display user guide for GUI.

Need to type this up

- Reset button to start over

- Frame selector

to allow user to choose which frames to test on (ideally a few frames with a lot of movement). **Need to figure out best way to skip ahead with frames.**

- “reset parameters to default” button

- “save parameters” button

should make a a file with a predefined filename

- “Run full movement extraction” button

this should automatically save the parameters