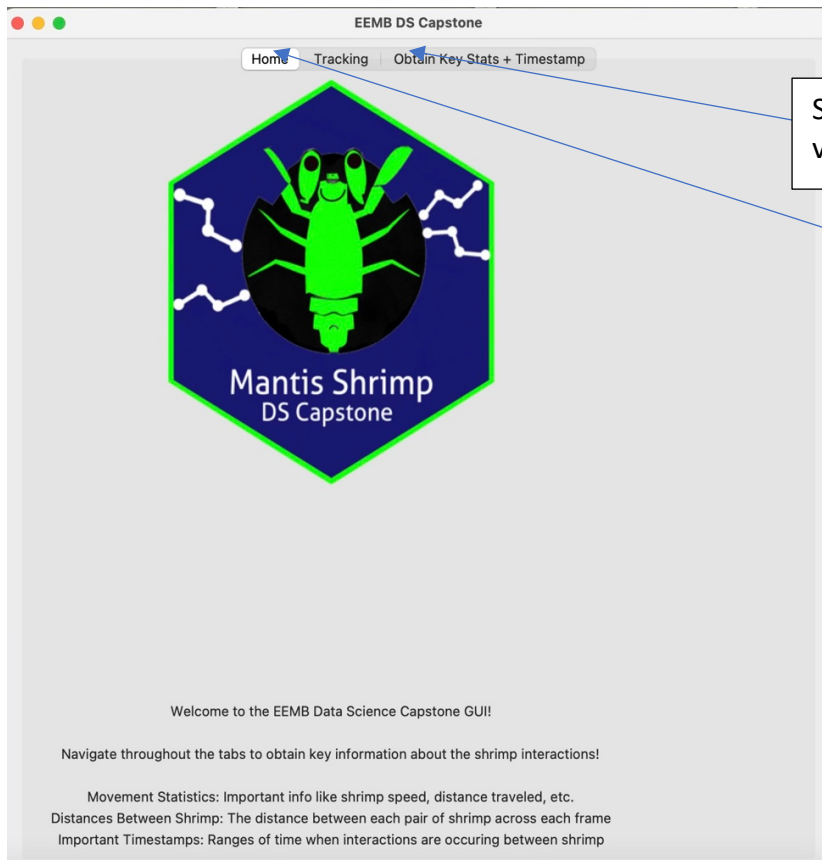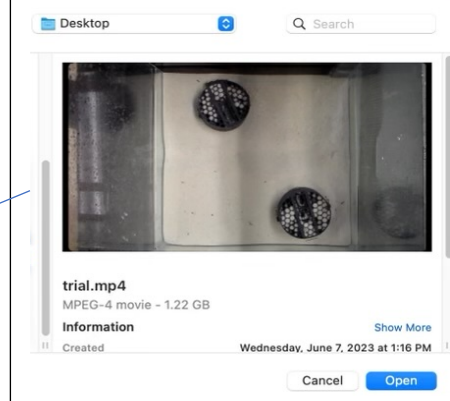# EEMB DS Capstone Tracking, Key Values, and Timestamping GUI Manual
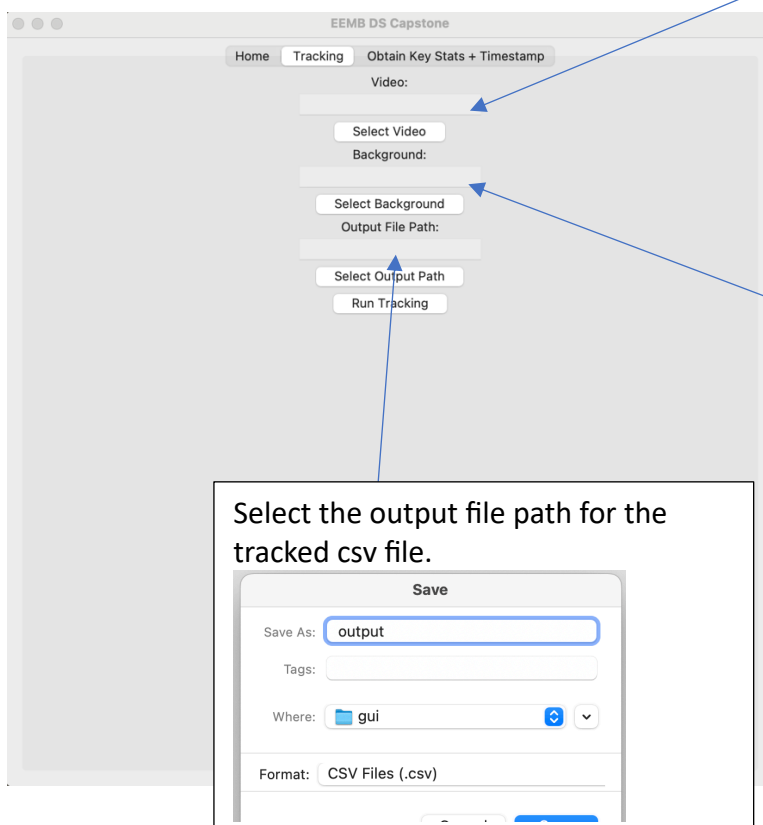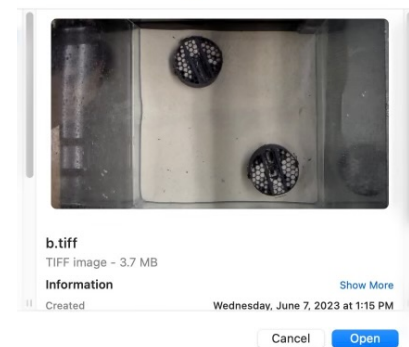
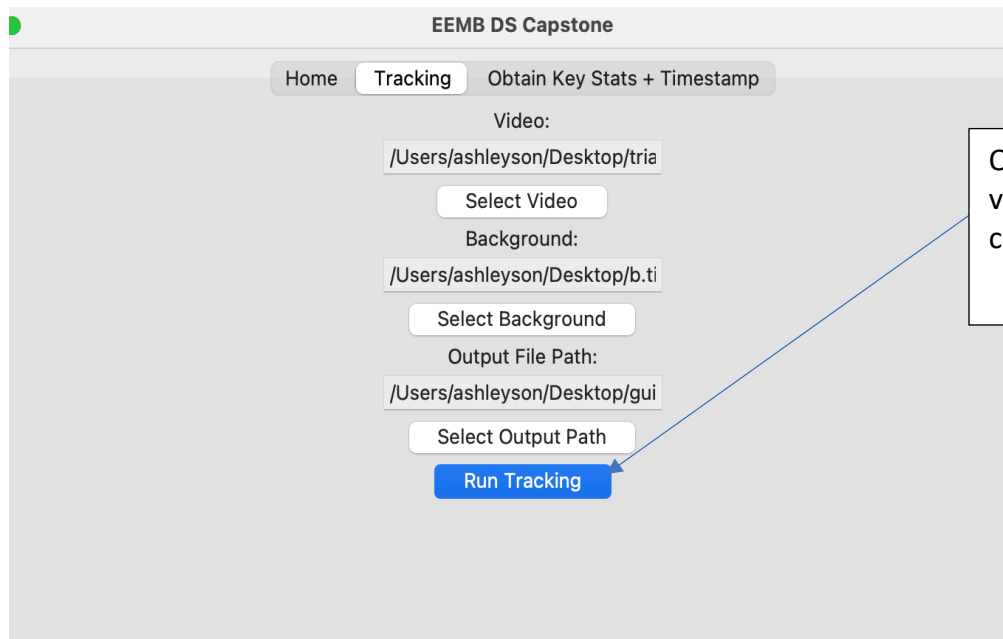Select tab 3 for key values and timestamp.

Select tab 2 for tracking.

Select the video you want to track.

Select the background for that video.
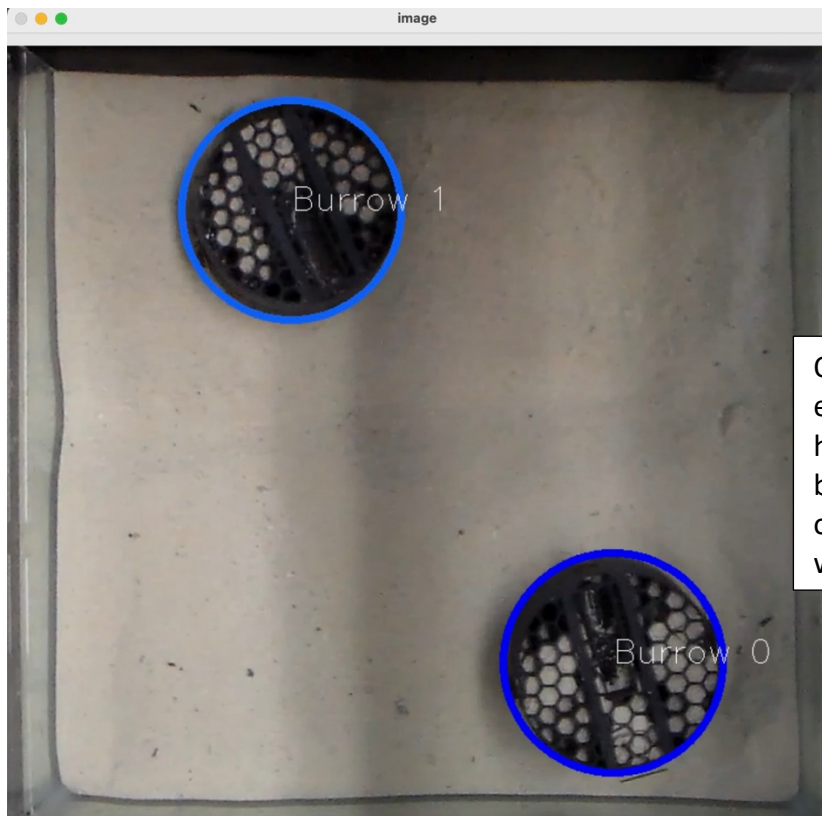
Select the output file path for the tracked csv file.

EEMB DS Capstone

Home | Tracking | Obtain Key Stats + Timestamp

Video:
/Users/ashleyson/Desktop/tria

Select Video

Background:
/Users/ashleyson/Desktop/b.ti

Select Background

Output File Path:
/Users/ashleyson/Desktop/gui

Select Output Path

Run Tracking

Once you have selected a video and its background, click "Run Tracking".

image

(297, 15)   (1024, 25)

(296, 712)   (1037, 711)
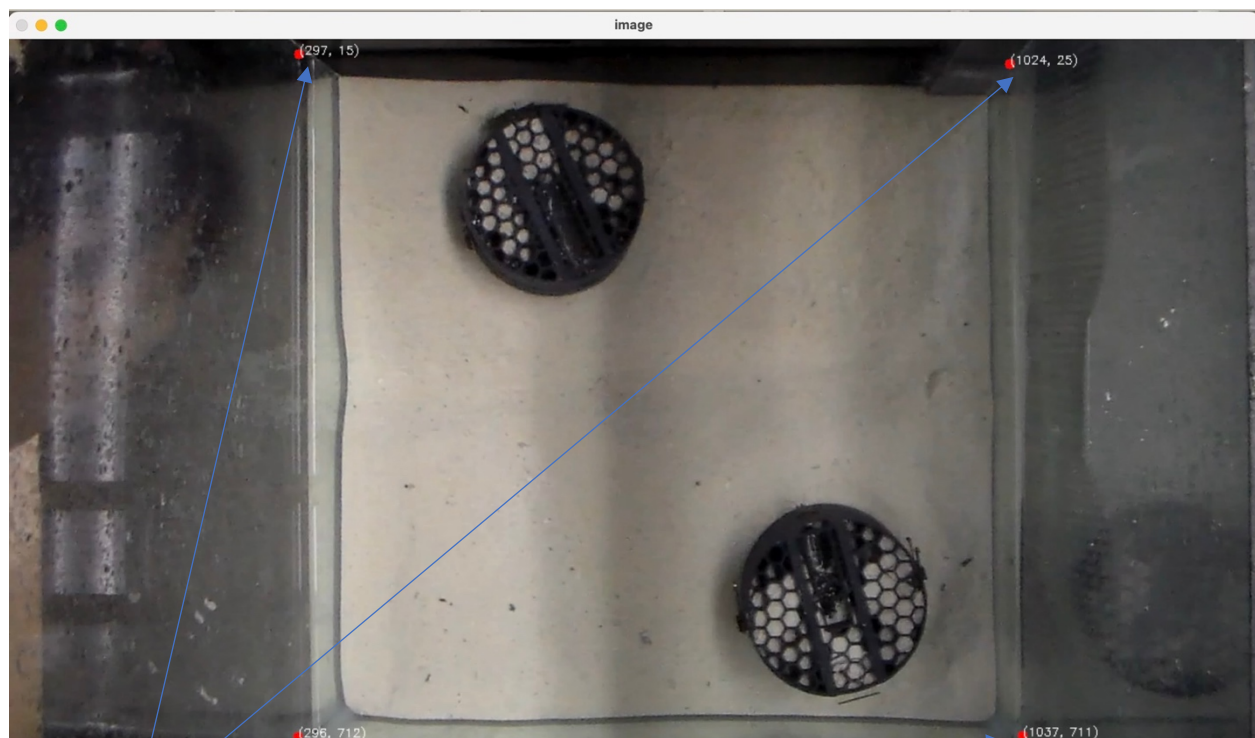
Once you have ran the tracking, there will be a pop up for you to initialize the four corners of the tank. Select the four corners. If you are not content with the four corners, click "n" on your keyboard to clear the points for you to reselect. If you are satisfied with the four corners, click "y" and it will direct you to the next steps.

Run Tracking

Burrow Count

How many burrows are in the arena? (Enter an integer):

2

OK   Cancel
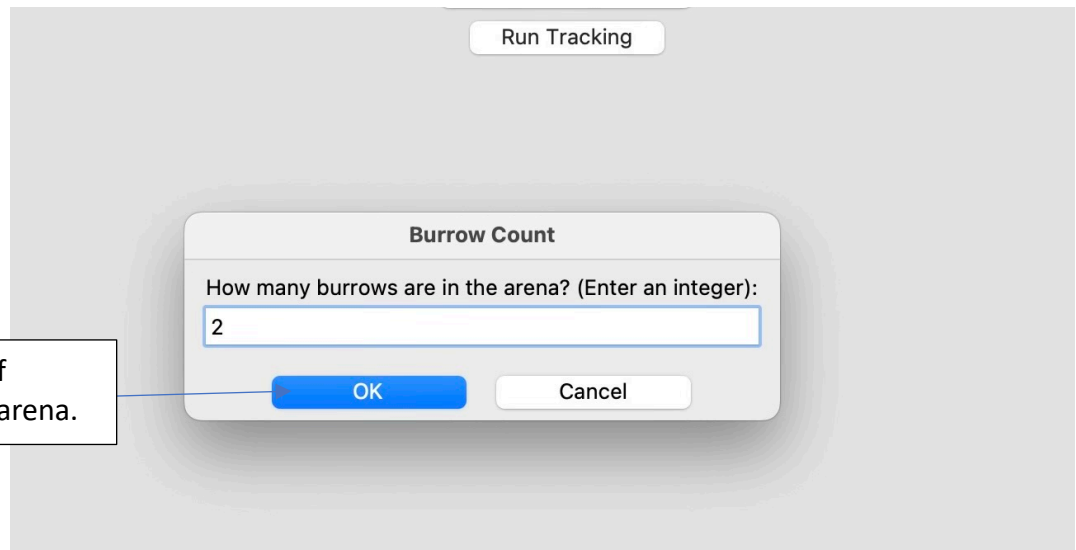
Enter the number of burrows within the arena.

image
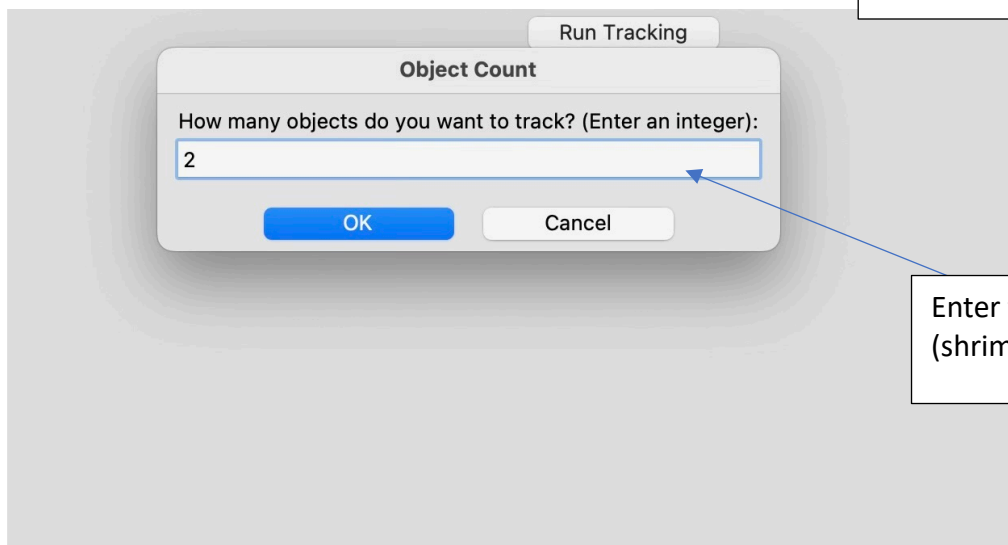
Burrow 1

Burrow 0

Once the number of burrows are entered, your burrows will be highlighted. Validate that the burrows are correct and click "y" on your keyboard to proceed with tracking.

Run Tracking

Resident Location

Which burrow has a resident? (Enter an integer):

0

OK   Cancel
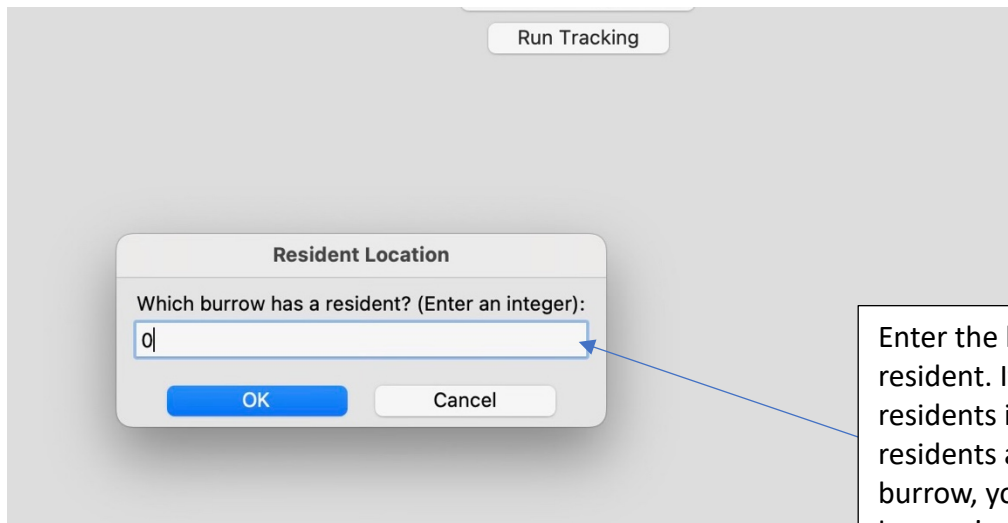
Enter the burrow with the resident. If there were no residents in the burrow or both residents are residing in the burrow, you may type in either burrow's number from the previous pop up.

Run Tracking

Object Count

How many objects do you want to track? (Enter an integer):

2

OK   Cancel

Enter the number of objects (shrimp) you would like to track.

Once selecting "OK," the tracking process will begin, you can find the output.csv in the same location as your video and background.
Happy Tracking! ☺
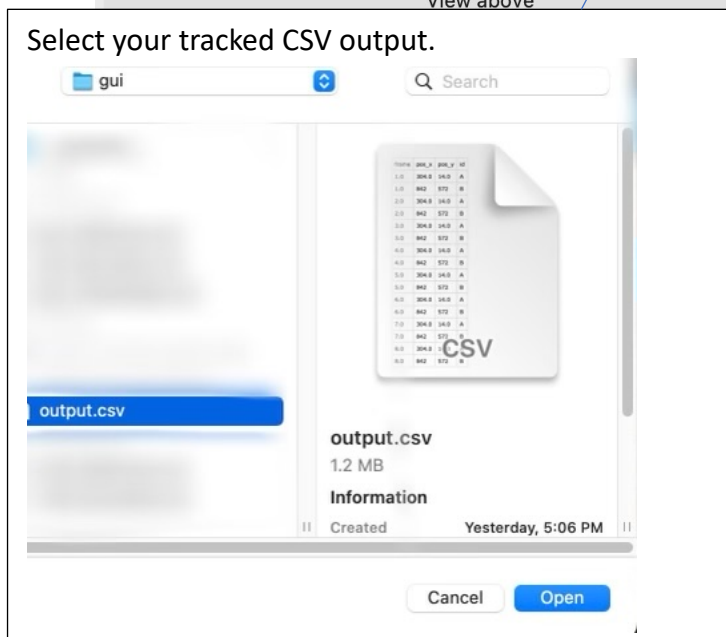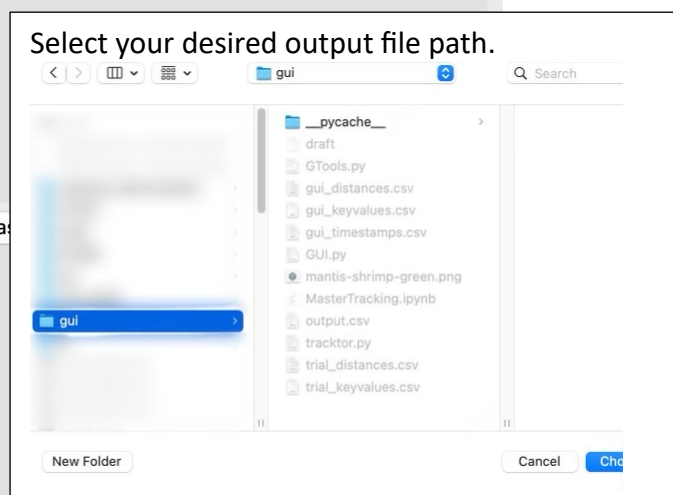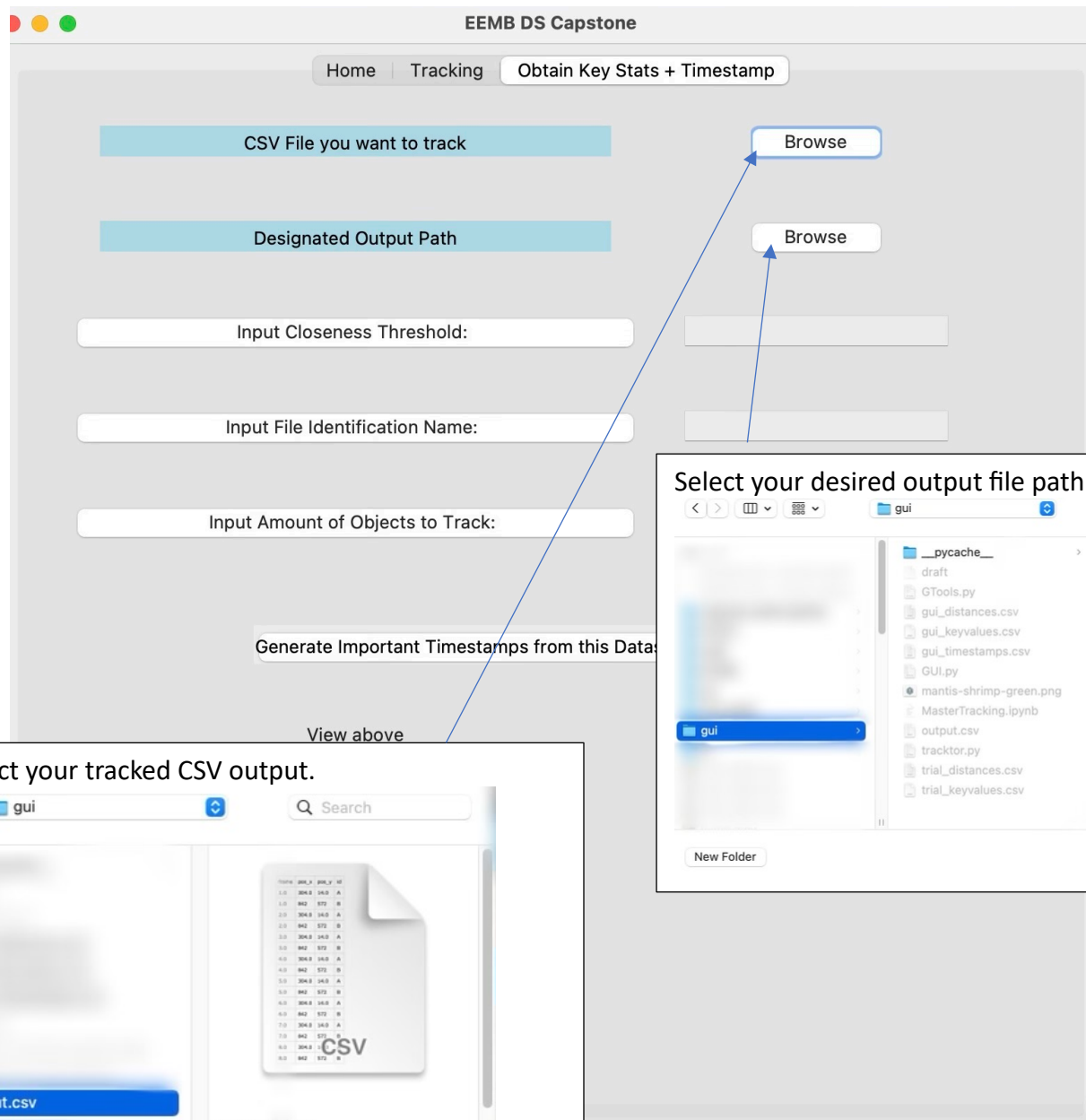
EEMB DS Capstone

Home | Tracking | **Obtain Key Stats + Timestamp**

CSV File you want to track — Browse

Designated Output Path — Browse

Input Closeness Threshold:

Input File Identification Name:

Input Amount of Objects to Track:

Generate Important Timestamps from this Datas

View above

Select your desired output file path.

gui

Q Search

__pycache__
draft
GTools.py
gui_distances.csv
gui_keyvalues.csv
gui_timestamps.csv
GUI.py
mantis-shrimp-green.png
MasterTracking.ipynb
output.csv
tracktor.py
trial_distances.csv
trial_keyvalues.csv

gui

New Folder — Cancel — Cho

Select your tracked CSV output.

gui

Q Search

output.csv

CSV

output.csv
1.2 MB
Information
Created — Yesterday, 5:06 PM

Cancel — Open

Input the closeness threshold. This value is measured in pixels. Then click on the "Input Closeness Threshold:" button.

Input the identification name for the 3 csv files. Then click on the "Input File Identification Name:" button.

Input the number of objects to track. Then click on the "Input Amount of Objects to Track:" button.

Once selecting "Generate Important Timestamps from this Dataset," the process will begin, you can find the csv files in your designated output path.