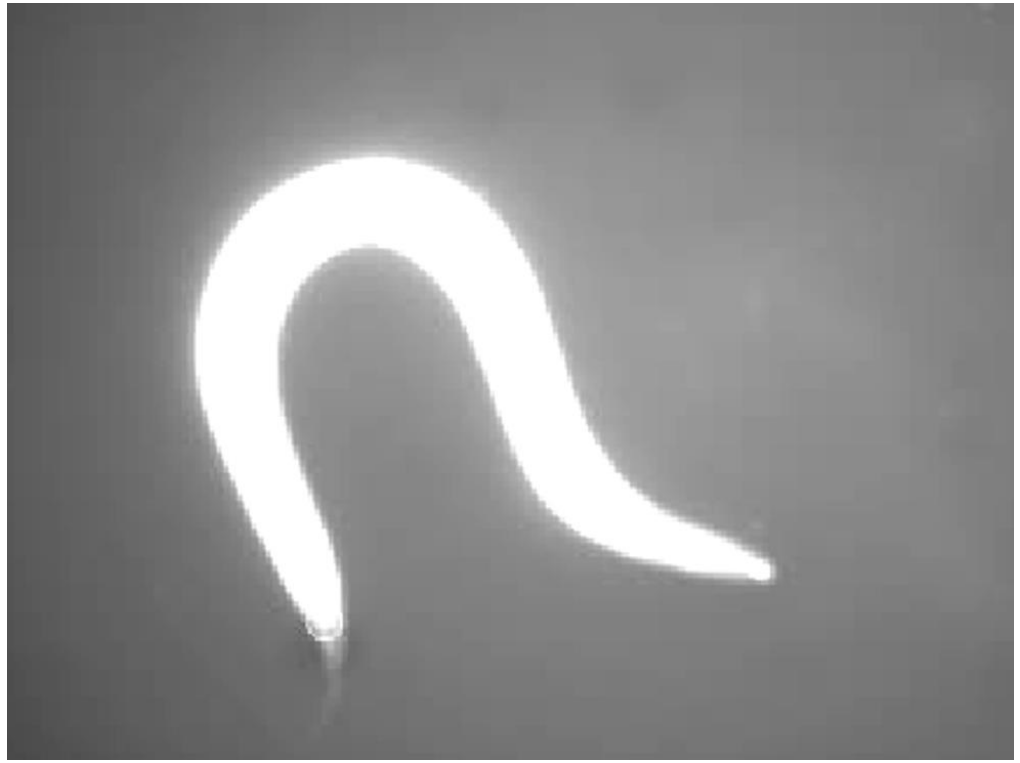
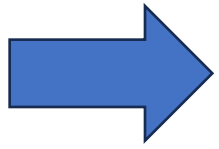
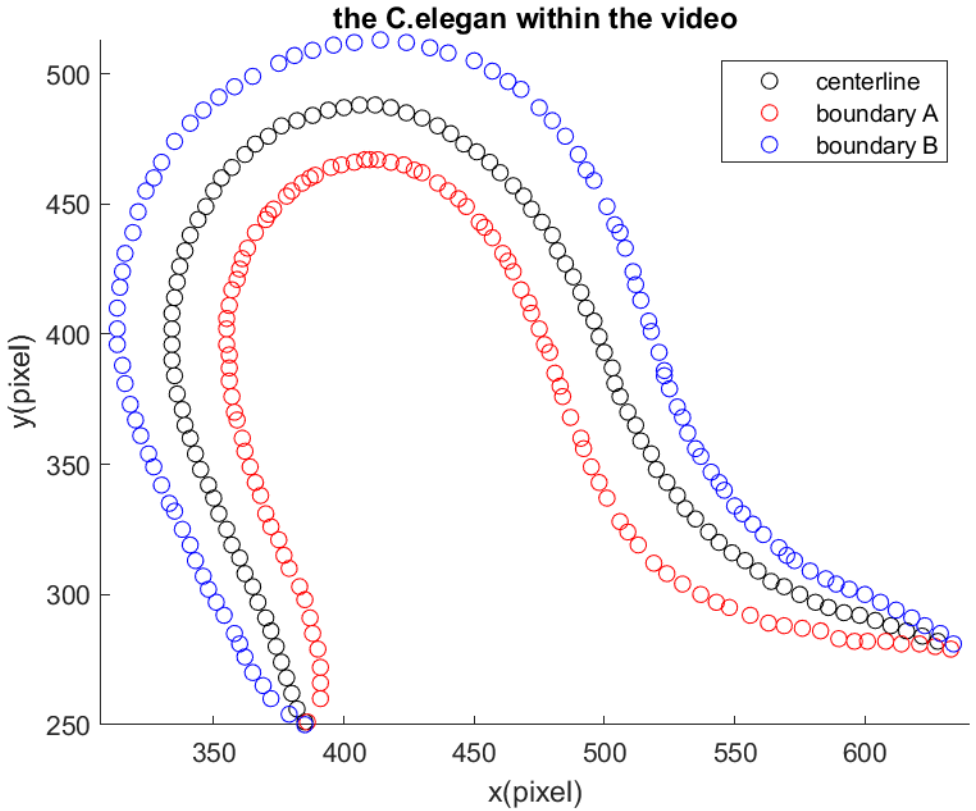
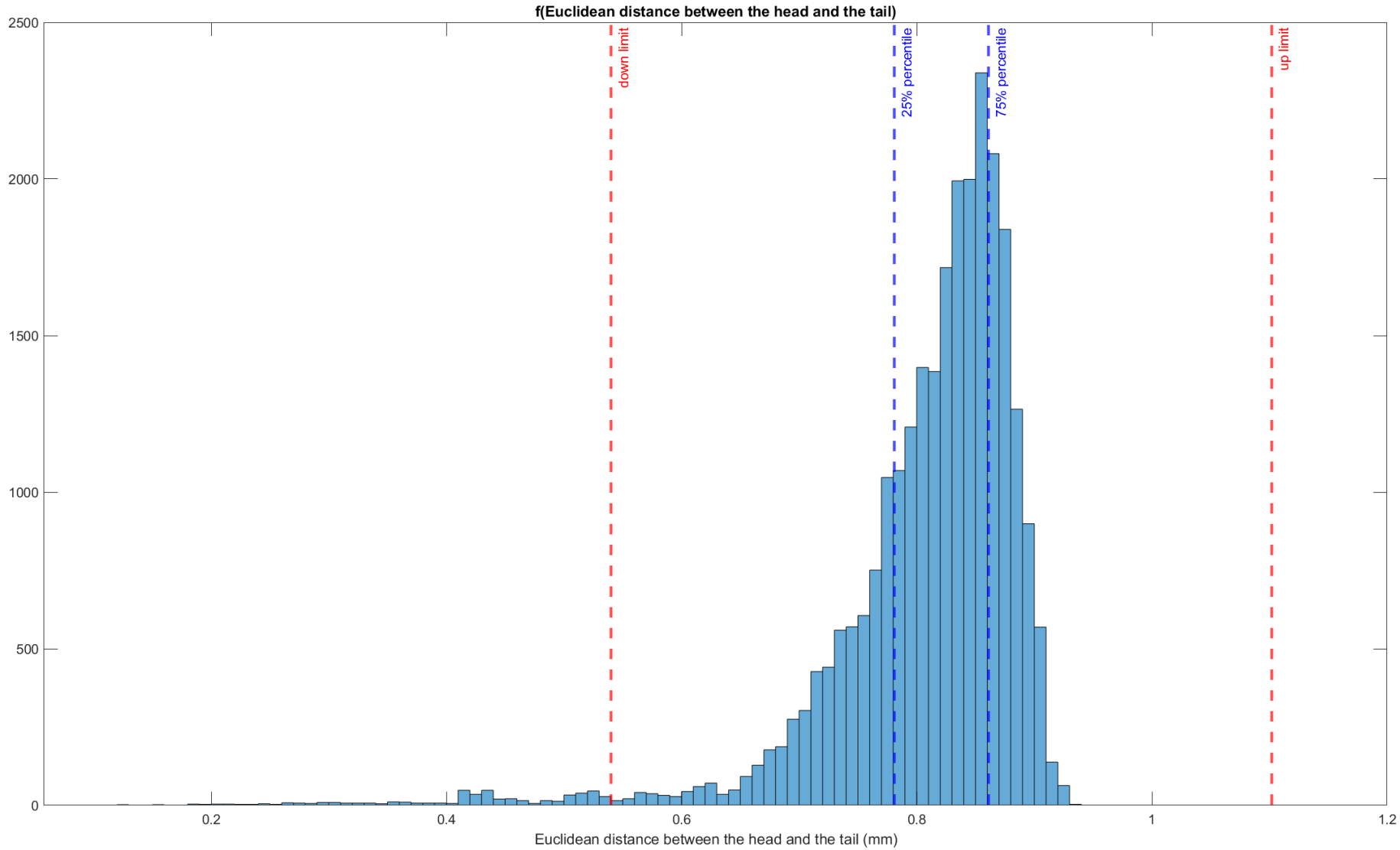
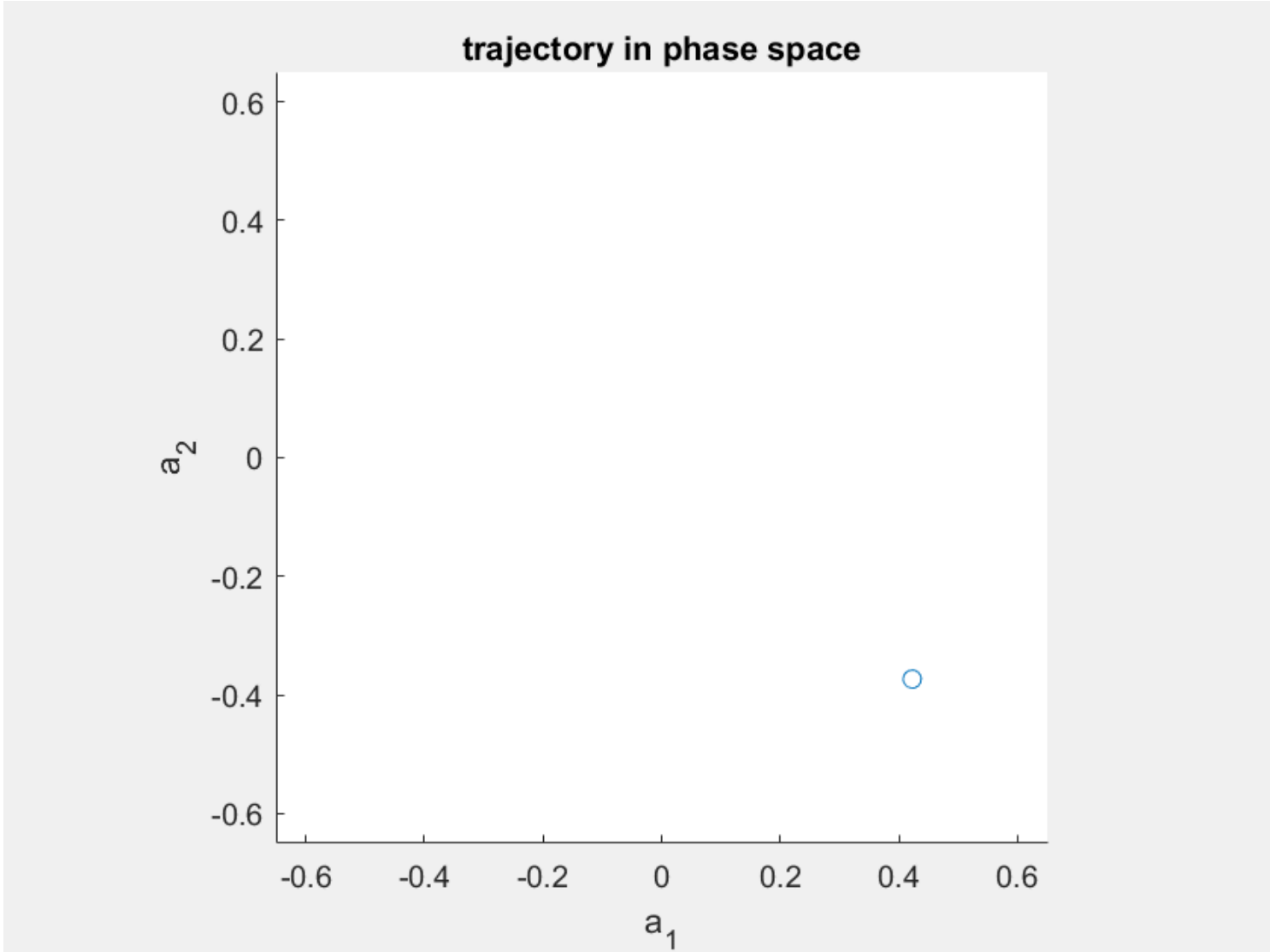
Recording
Floodlight
forward
20654

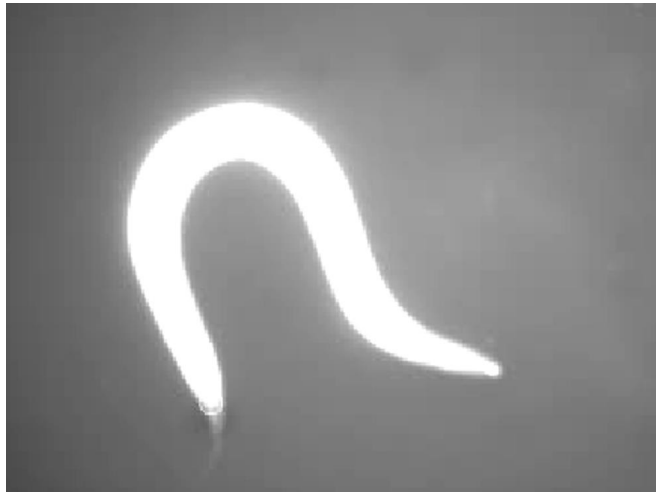


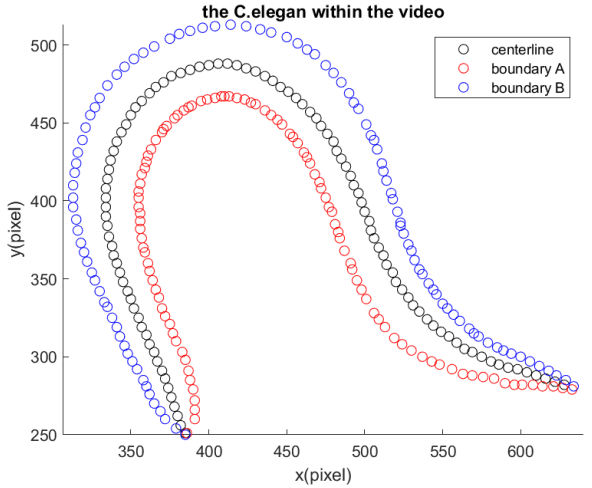


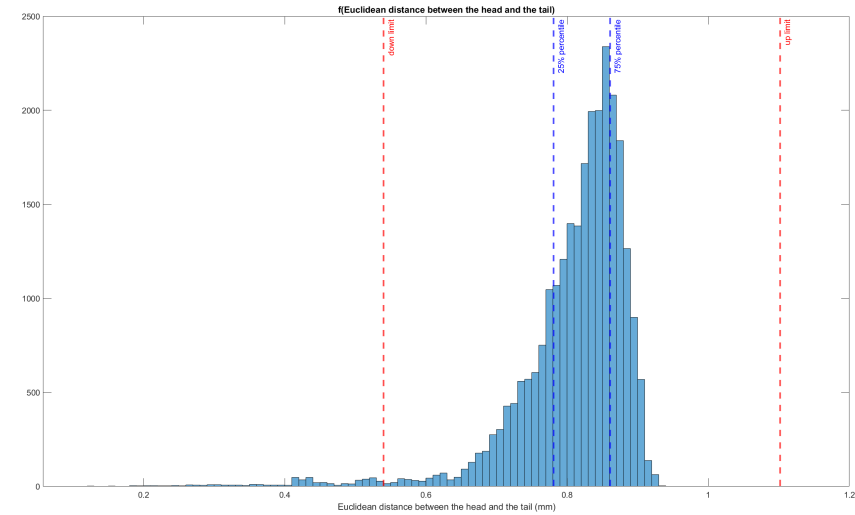

the C.elegan within the video
centerline
boundary A
boundary B
y(pixel)
x(pixel)
500
450
400
350
300
250
350
400
450
500
550
600

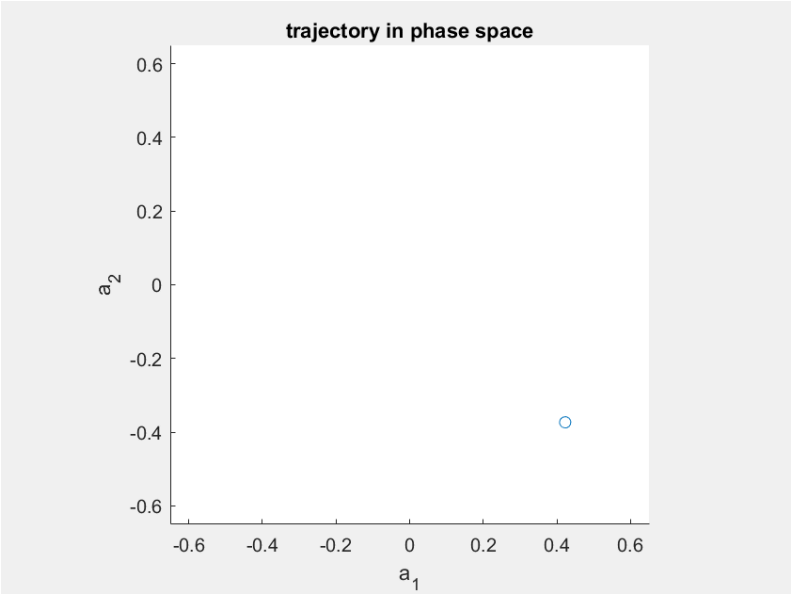

f(Euclidean distance between the head and the tail)
down limit
25% percentile
75% percentile
up limit
2500
2000
1500
1000
500
0
0.2
0.4
0.6
0.8
1
1.2
Euclidean distance between the head and the tail (mm)


trajectory in phase space
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
a_2
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
a_1




the C.elegan within the video
centerline
boundary A
boundary B
y(pixel)
x(pixel)
500
450
400
350
300
250
350
400
450
500
550
600


f(Euclidean distance between the head and the tail)
down limit
25% percentile
75% percentile
up limit
Euclidean distance between the head and the tail (mm)
2500
2000
1500
1000
500
0
0.2
0.4
0.6
0.8
1
1.2


trajectory in phase space
a2
a1
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.6
-0.4
-0.2
0
0.2
0.4
0.6

Auto Worm Behavior Detector

In Three Categories:

Accuracy: 91.25%

Error: 8.75%

Precision of Turn: 100.00%

Recall of Turn: 42.07%

Precision of Forward: 95.53%

Recall of Forward: 96.14%

Precision of Reversal: 71.90%

Recall of Reversal: 99.67%