Tutorial: LarvaSeg

1. Open LarvaSeg\_Master.m MATLAB file
2. Start by making sure the proper folder where the images reside is inputed.
3. Load the image: Example Larva 1, supplied in the GitHub
4. Manually input the outline of the larva, double click to finish selection:

A close-up of a round object

Description automatically generated

1. This will generate a segmented object, and the skeleton will be automatically displayed. The ends of the skeleton usually splits. Manually input the actual midline, referencing the skeleton.

A blue and pink dotted line

Description automatically generatedA blue tie with pink lines

Description automatically generated

1. The pipeline will then show you what you’ve inputted and automatically draw perpendicular lines to the midline. And record the widths.

A blue feather with pink lines on a black background

Description automatically generatedA colorful striped curtain on a black background

Description automatically generated

1. Lastly the pipeline will average the widths, measure the length of the midline, calculate area and volume.