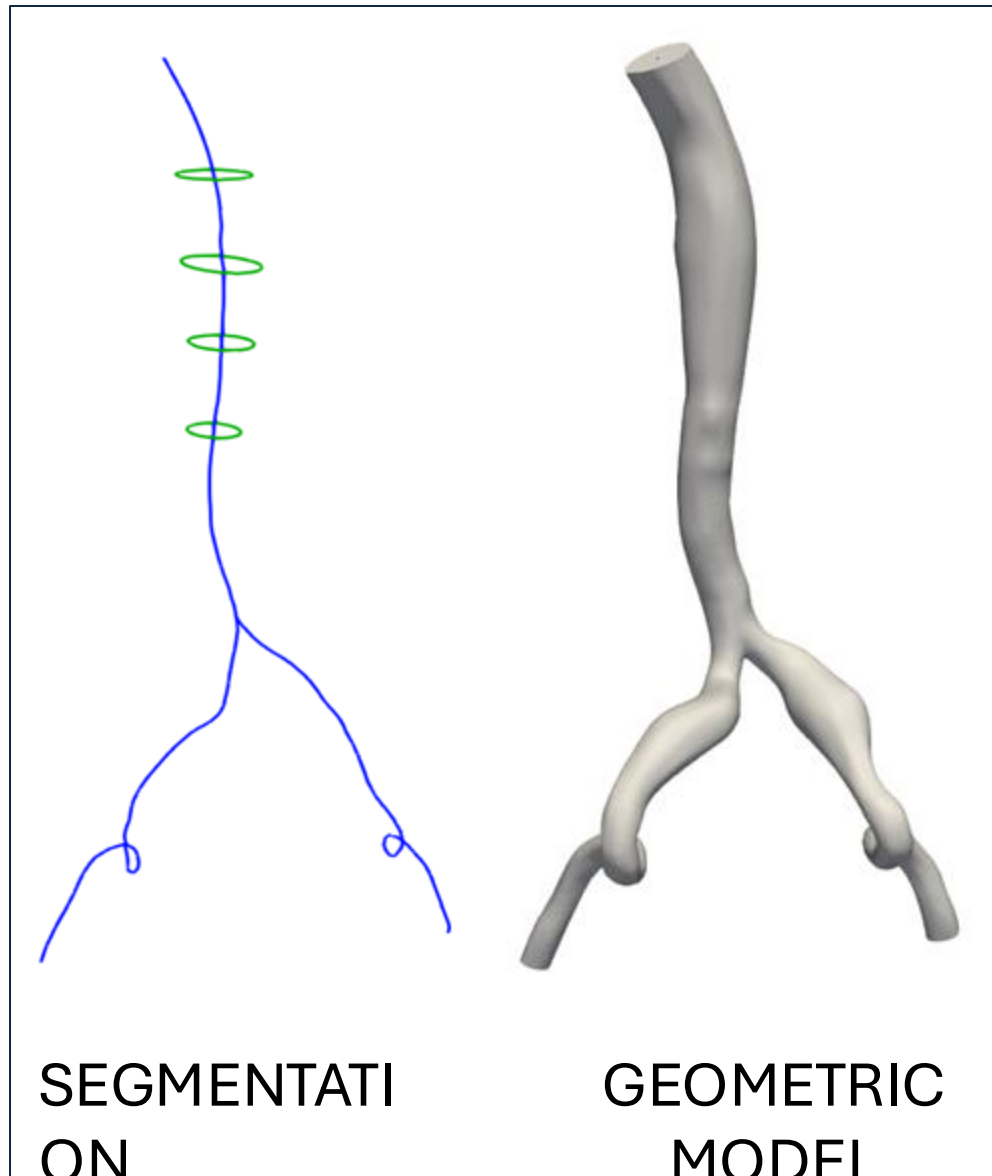


X-Ray images of
aorta and iliac
arteries



PAT
H

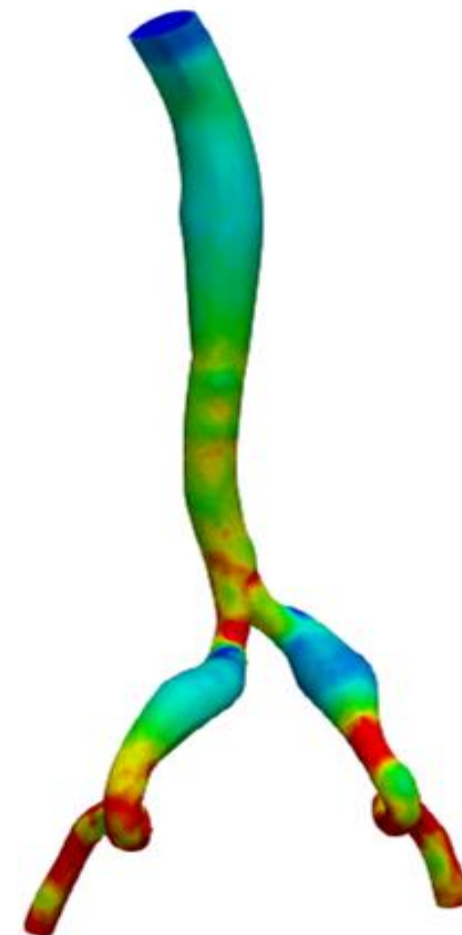


SEGMENTATI
ON

GEOMETRIC
MODEL



MESH



SIMULATION

We will build models of these blood
vessels

File Edit Tools Window Help

Save SV Projects Undo Redo Image Navigator A S C

SV Data Manager

InClassProject

Images

sample_data-cm

Paths

aorta
right_iliac

Segmentations

Models

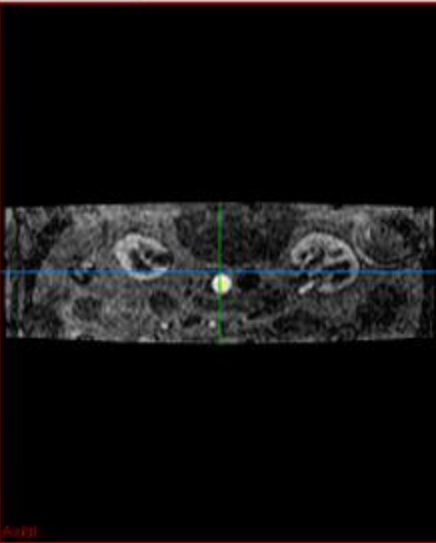
Meshes

Simulations

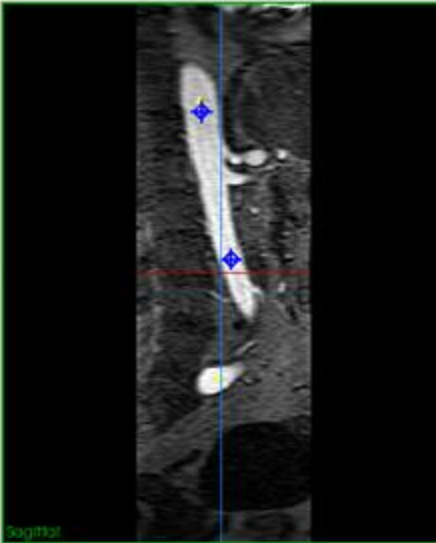
svFSI

ROMSimulations

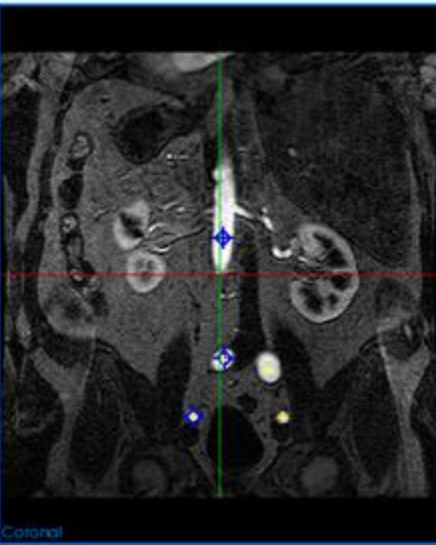
Display



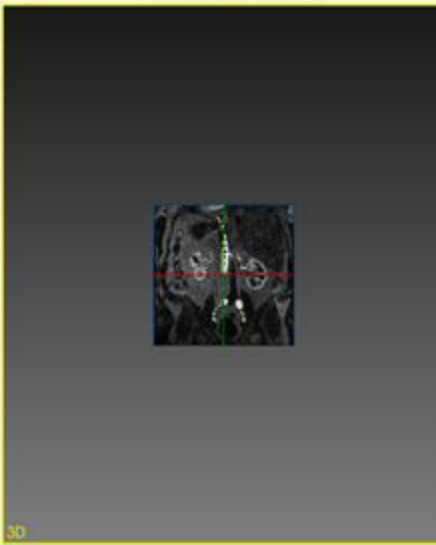
Axial



Sagittal



Coronal



3D

SV Modeling
SV Path Planning
Python Console
SV 2D Segmentation

Model Name: Create Model ...
Model Type:

Change Facet Size... Convert to PolyData...

Face List Blend

Delete
Fill Holes w. IDs
Combine

Remesh

Remesh Size:

Estimate Size

0.25

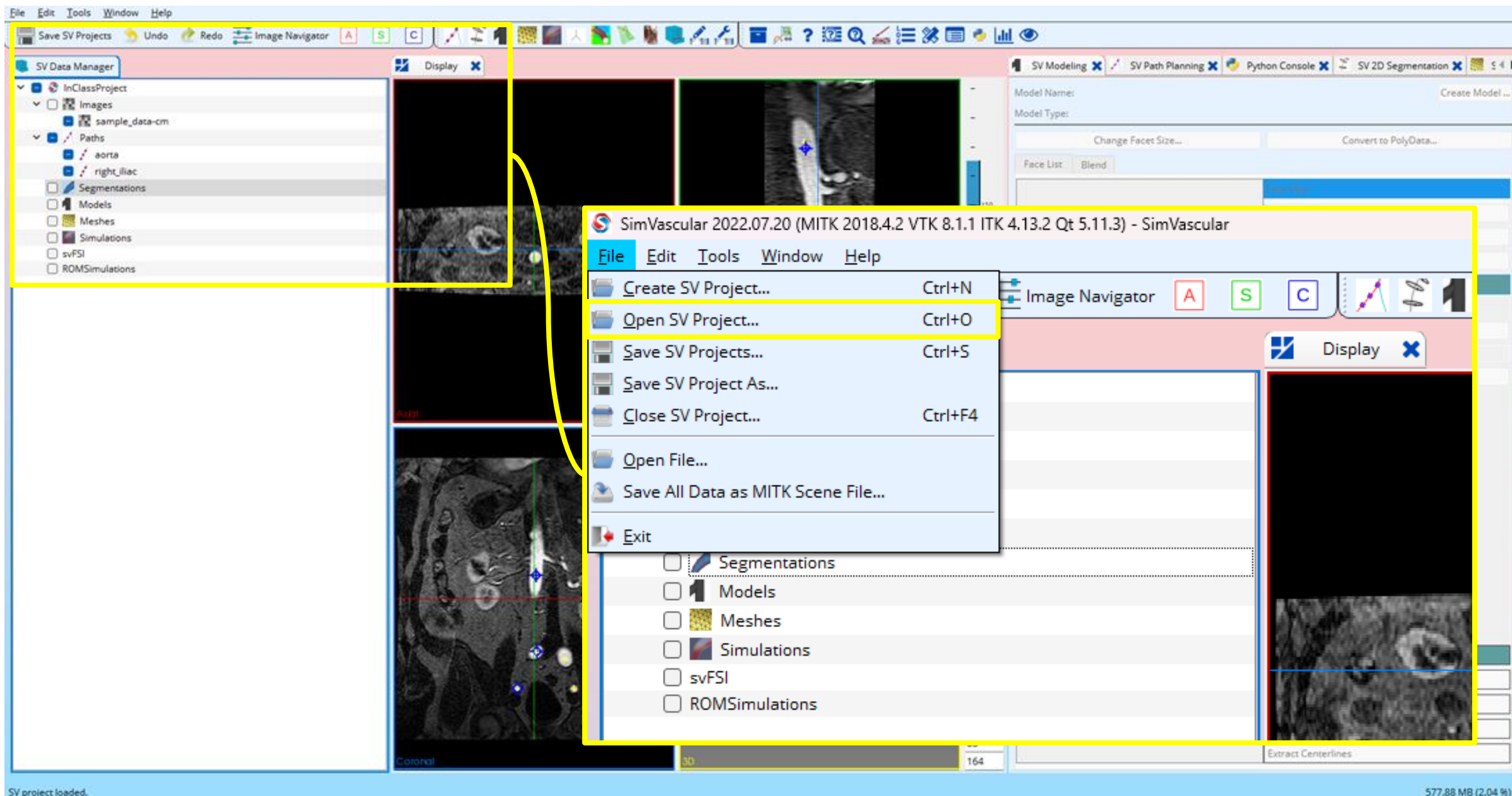
Remesh

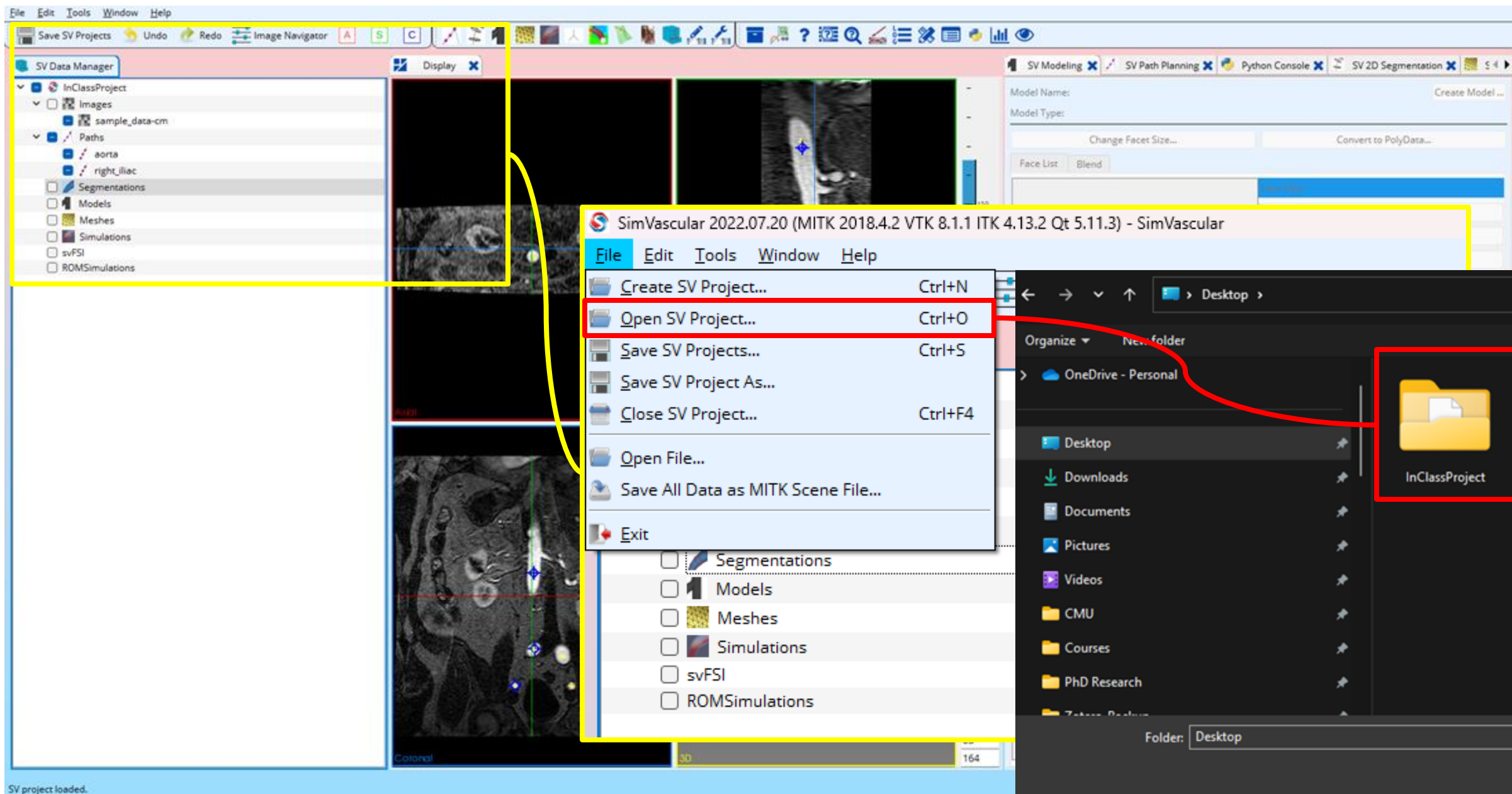
Extract

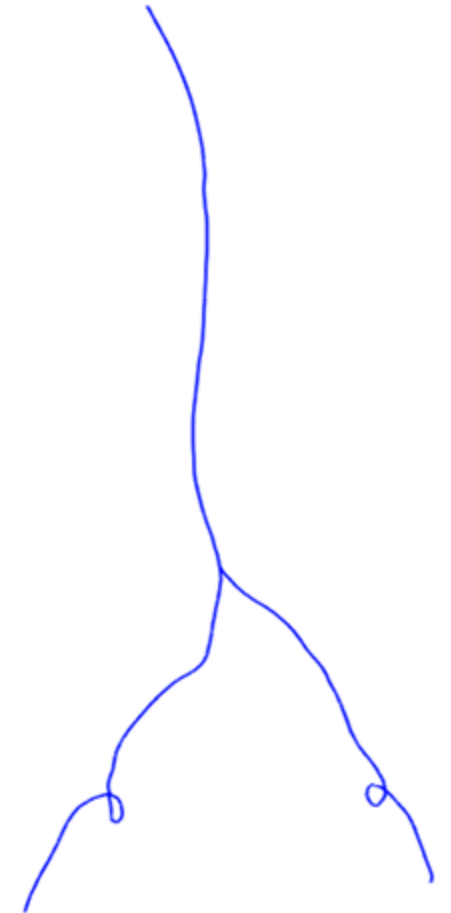
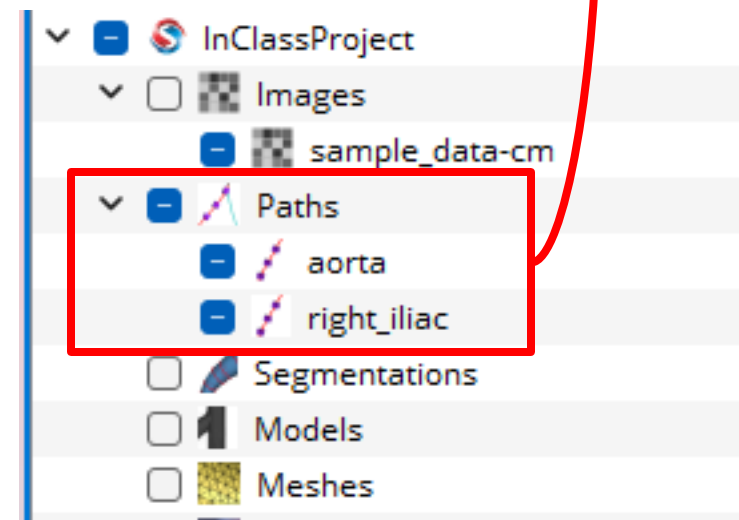
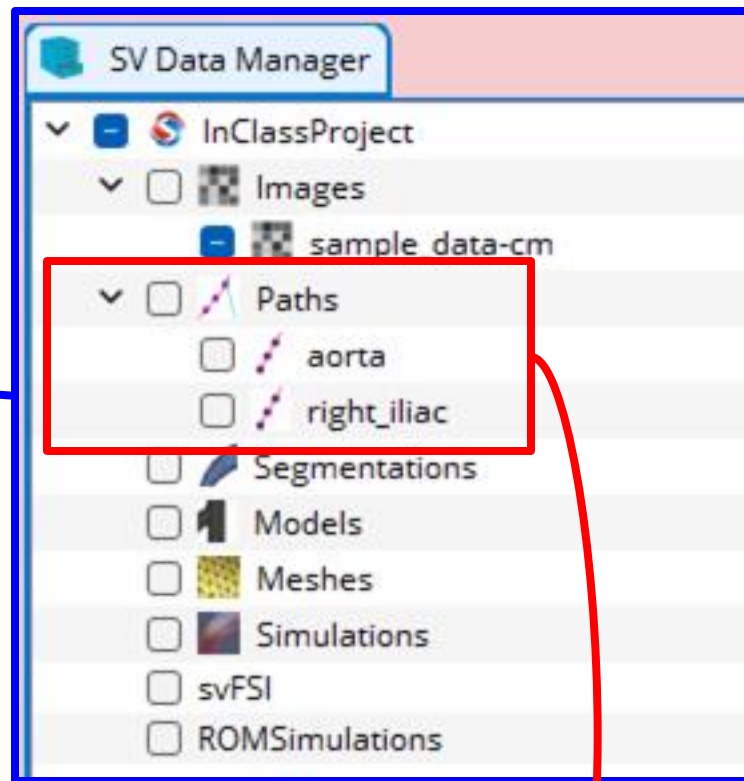
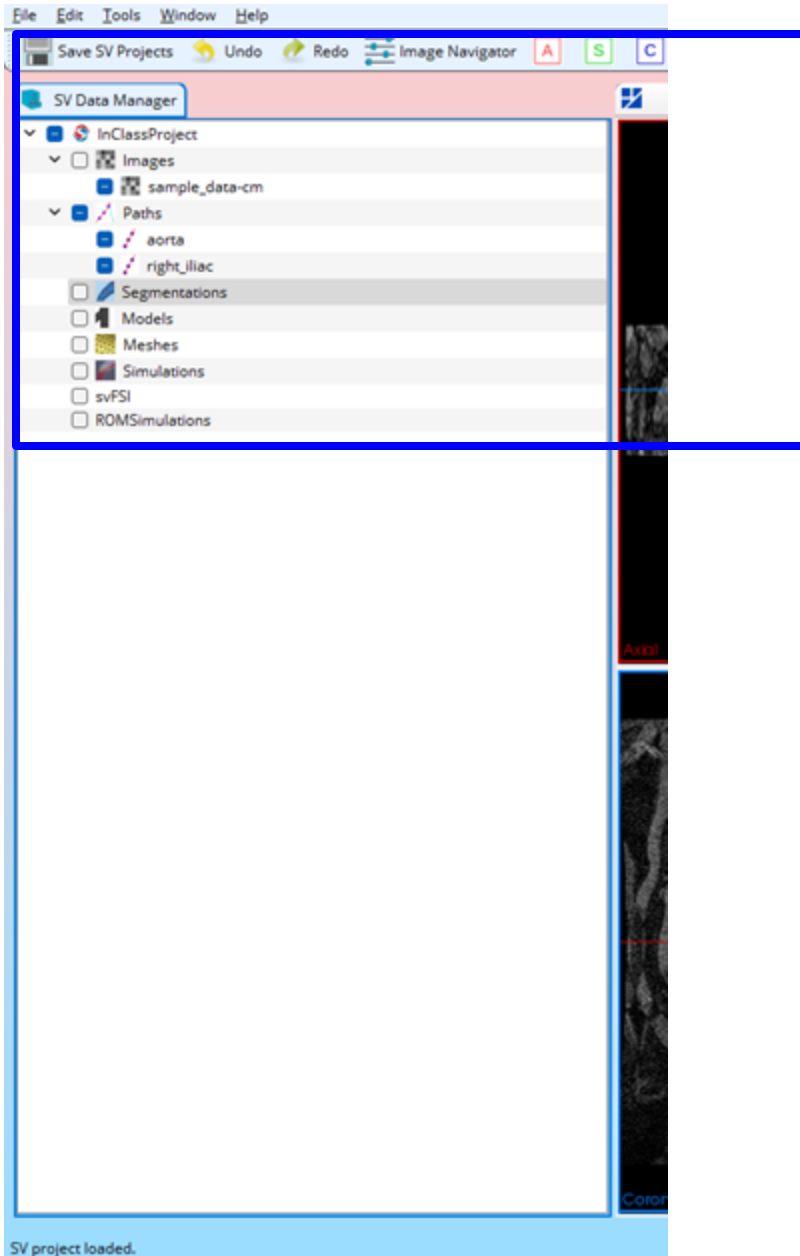
Global Ops
Local Ops
Trim
Extract Centerlines

SV project loaded.

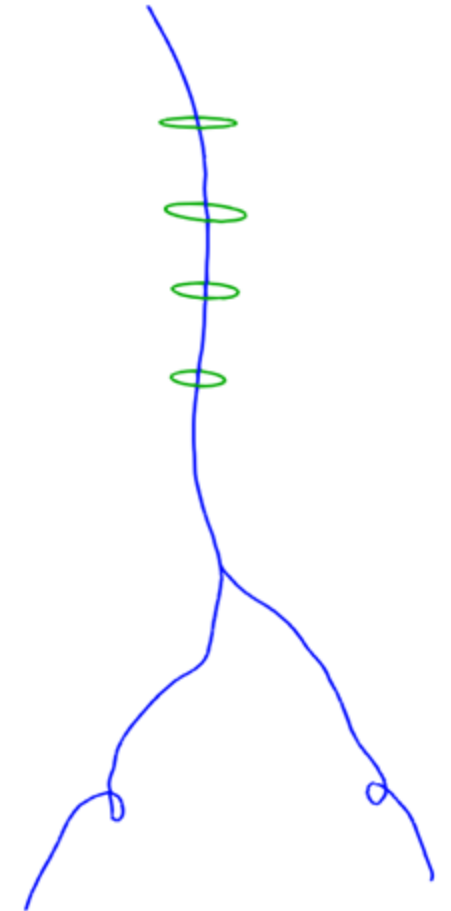
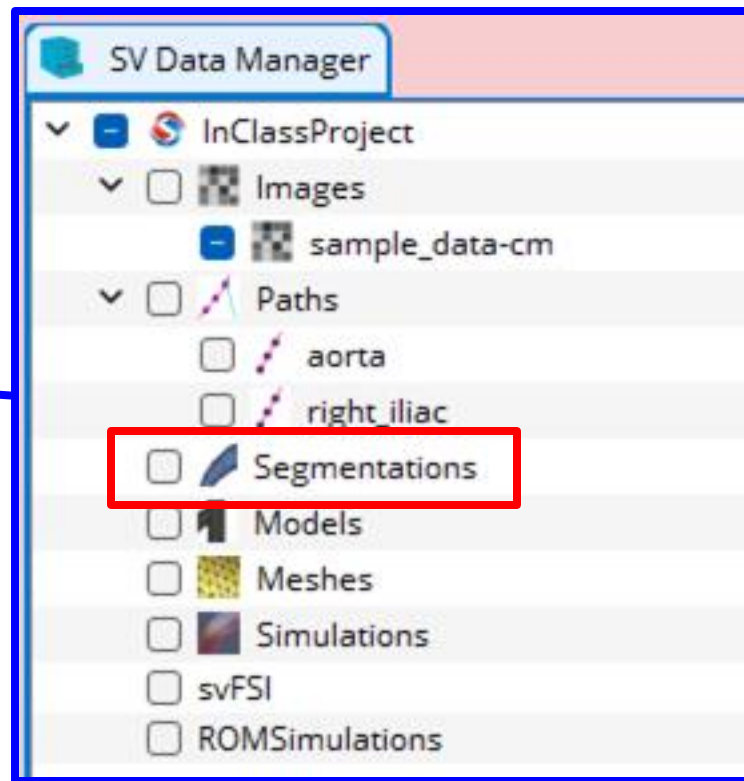
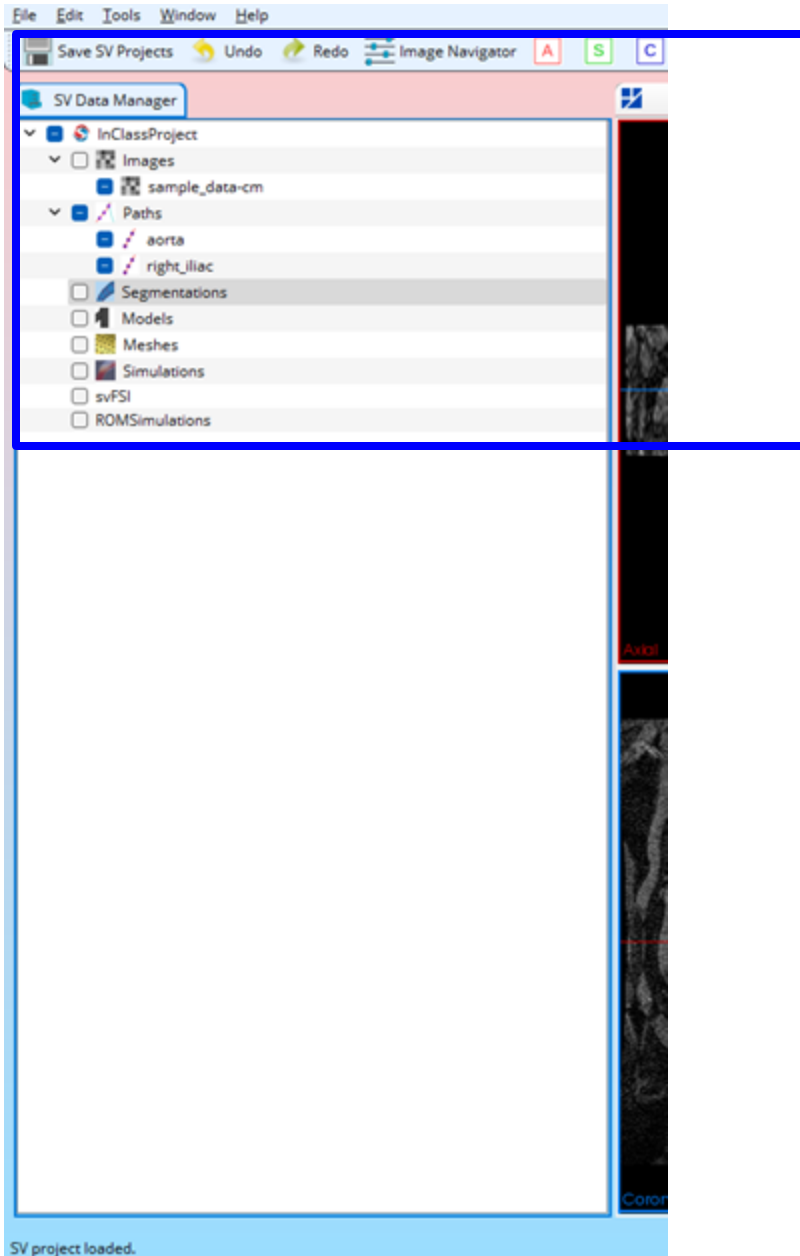
577.88 MB (2.04 %)







Click the empty box
besides **Paths**



We will create
segmentations of the
aorta and right iliac

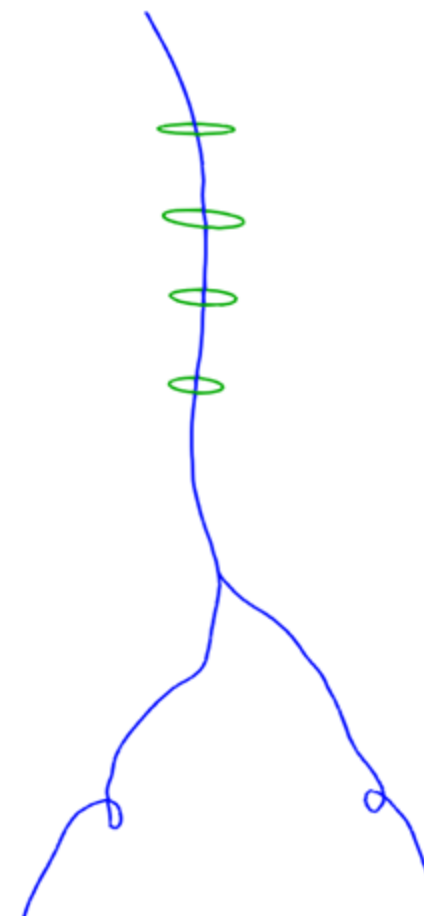
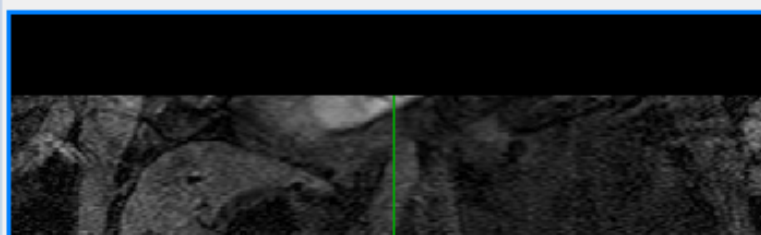
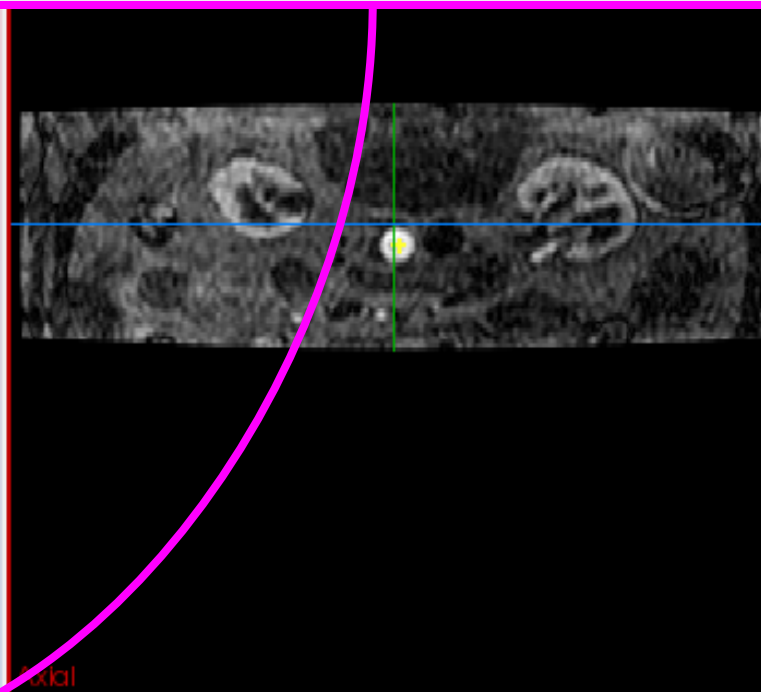
Select Path: aorta

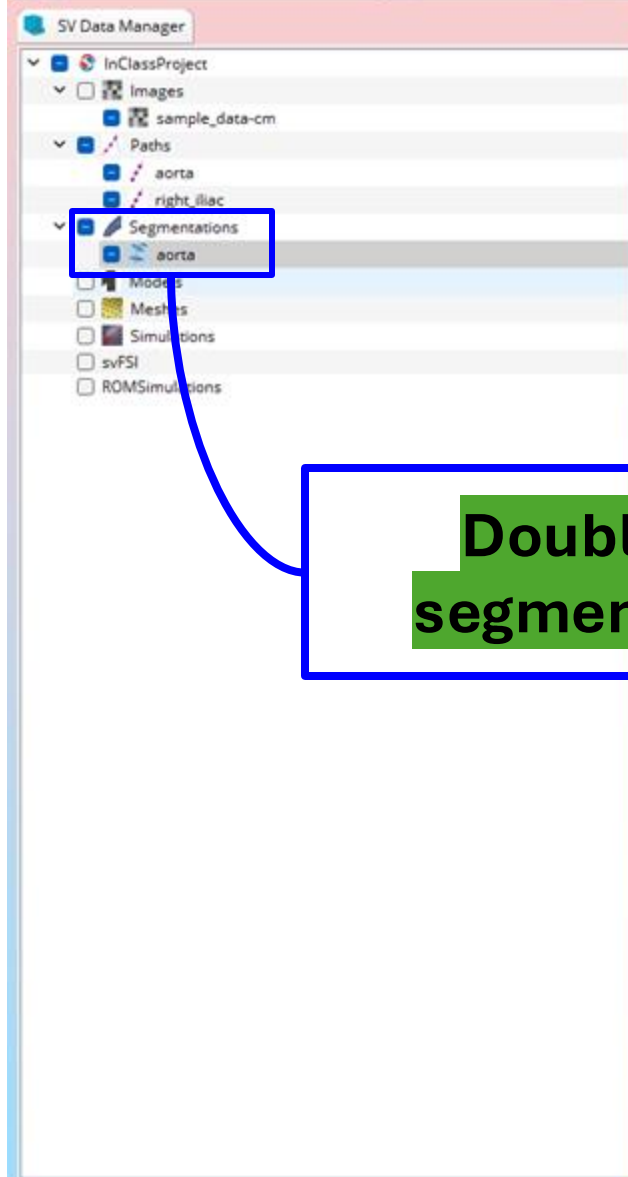
Group Name: aorta

(Using path name by default)

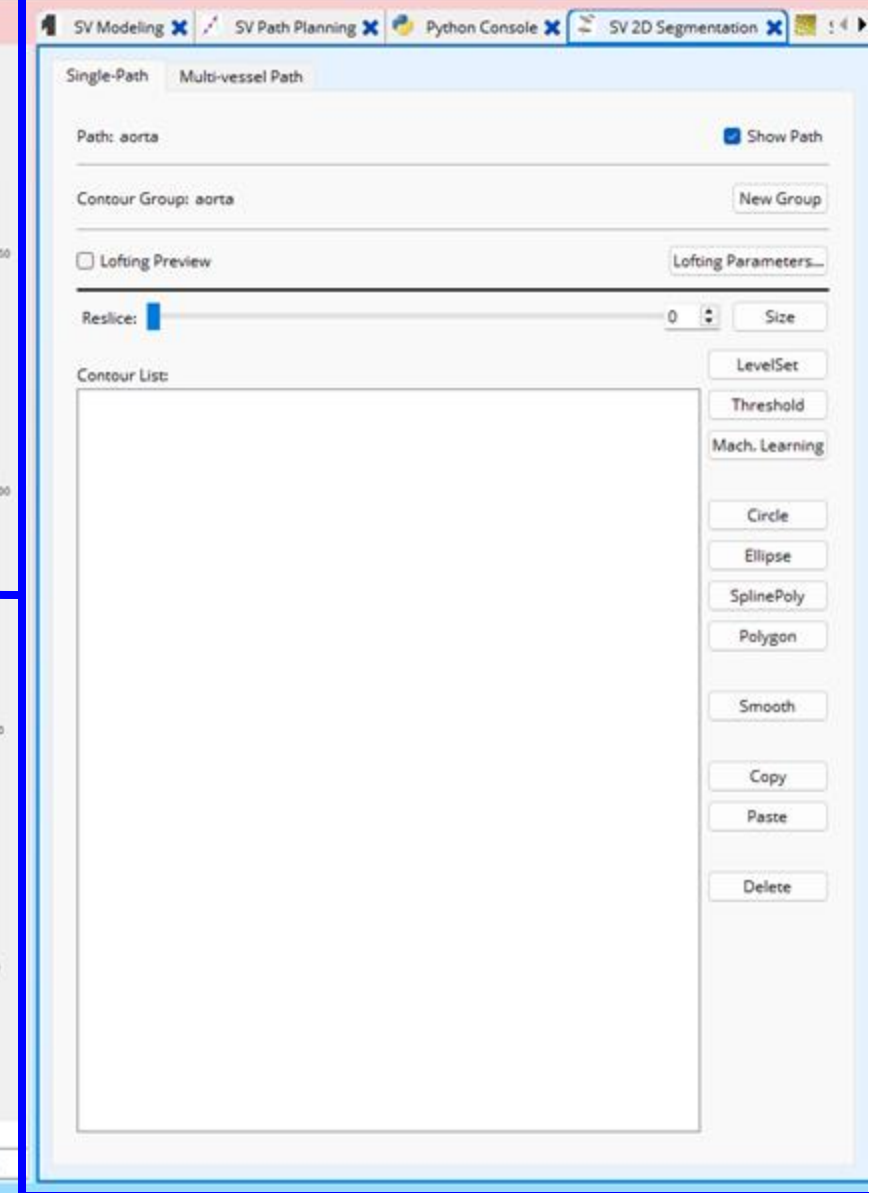
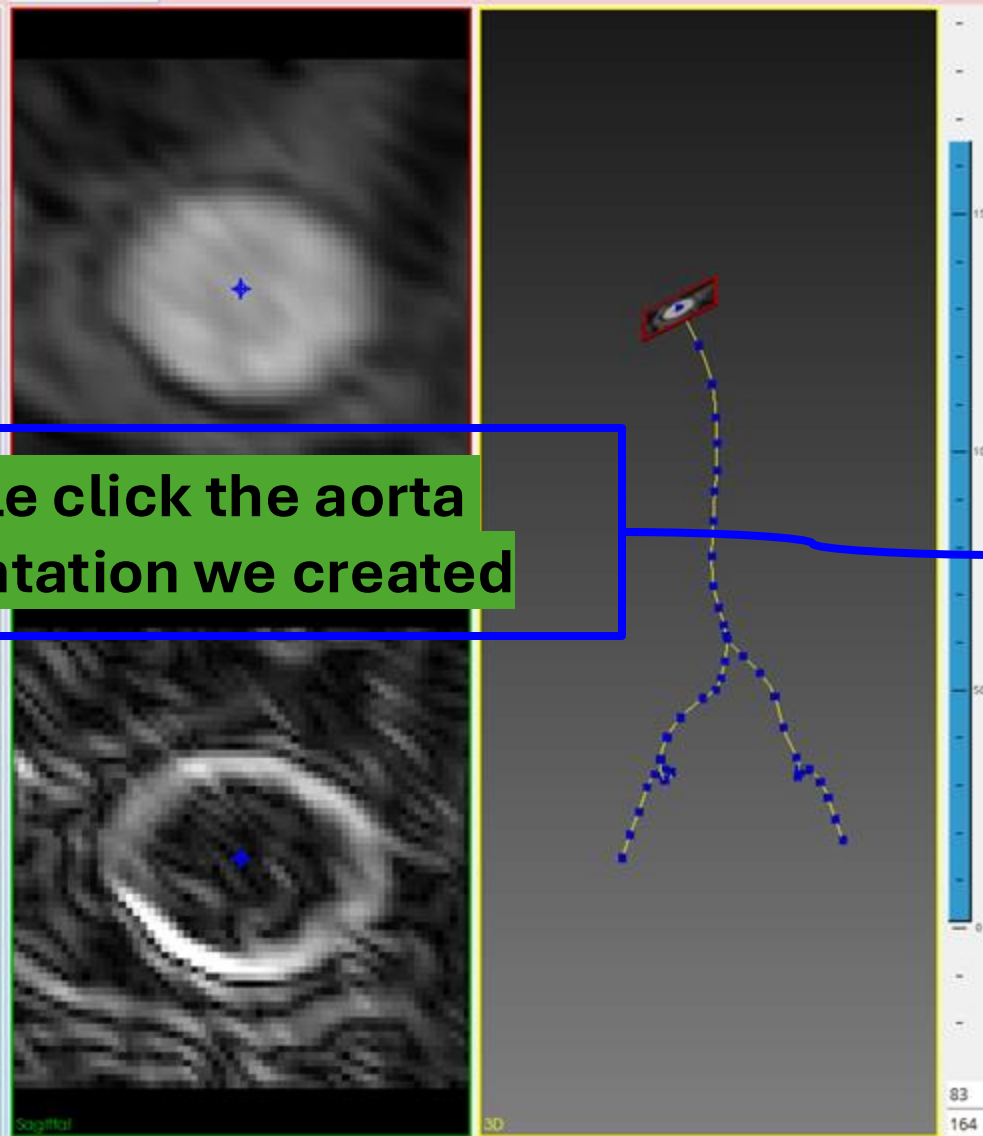
OK

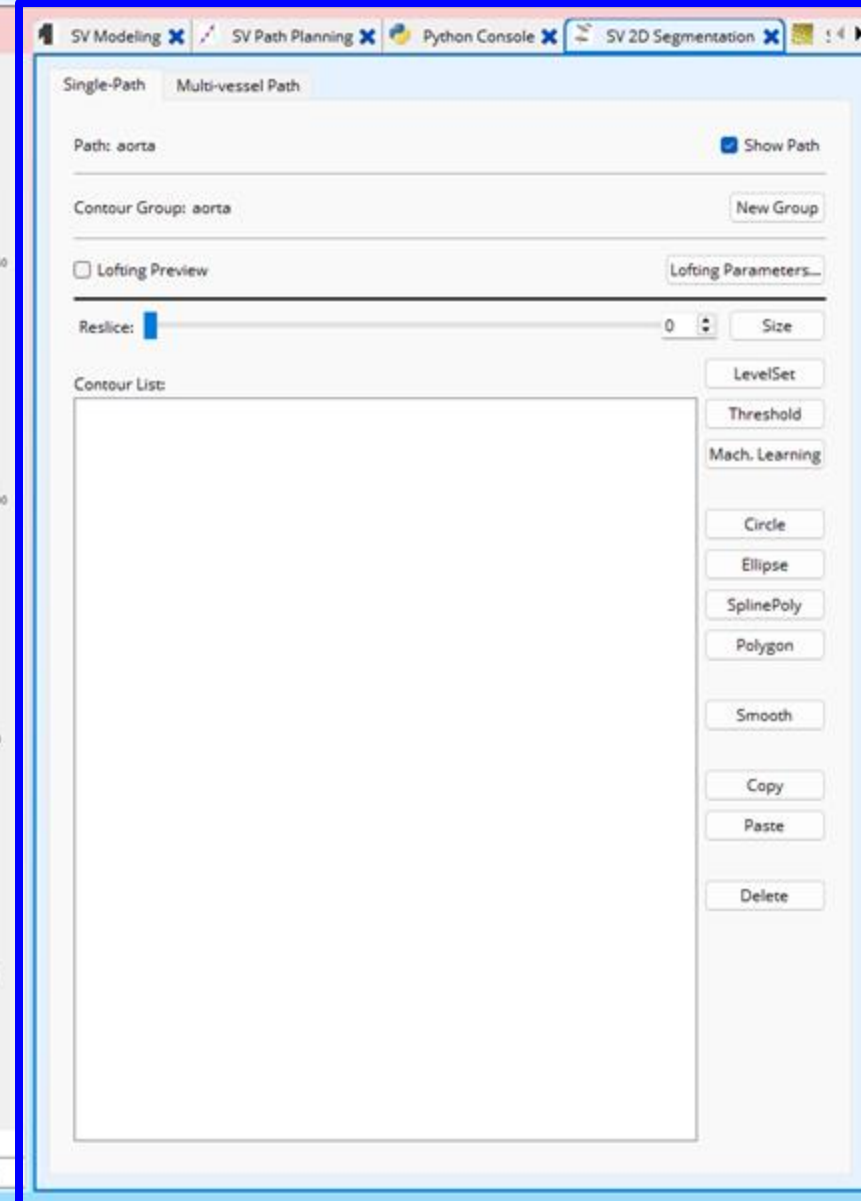
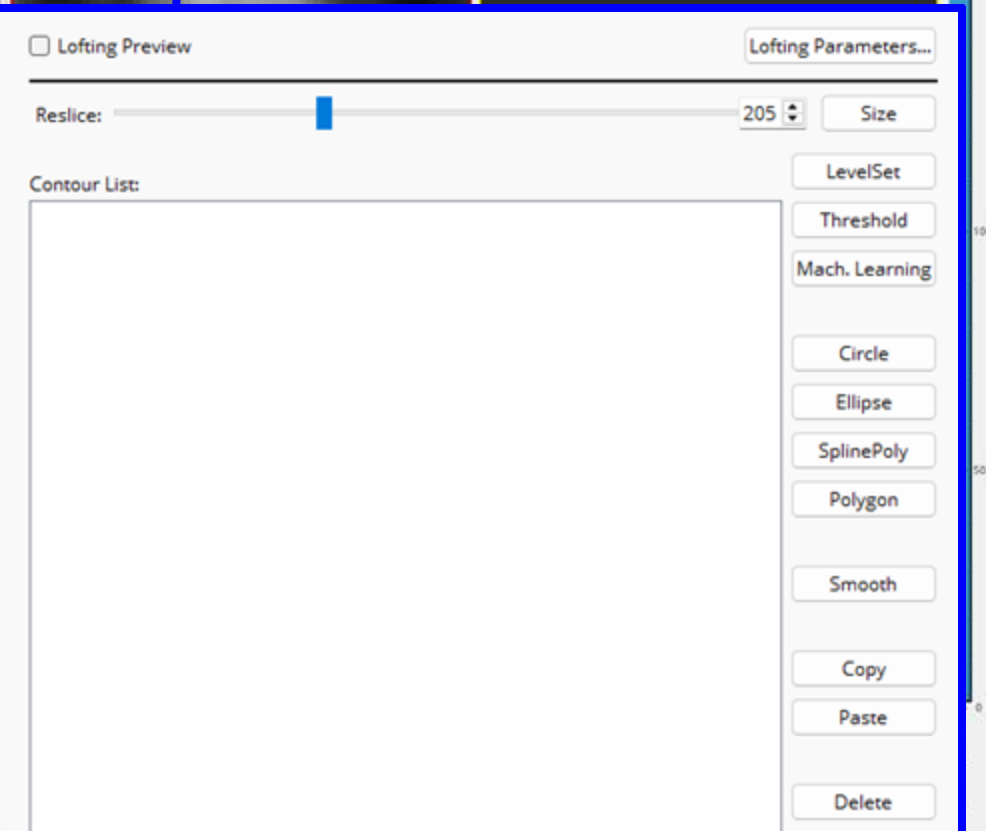
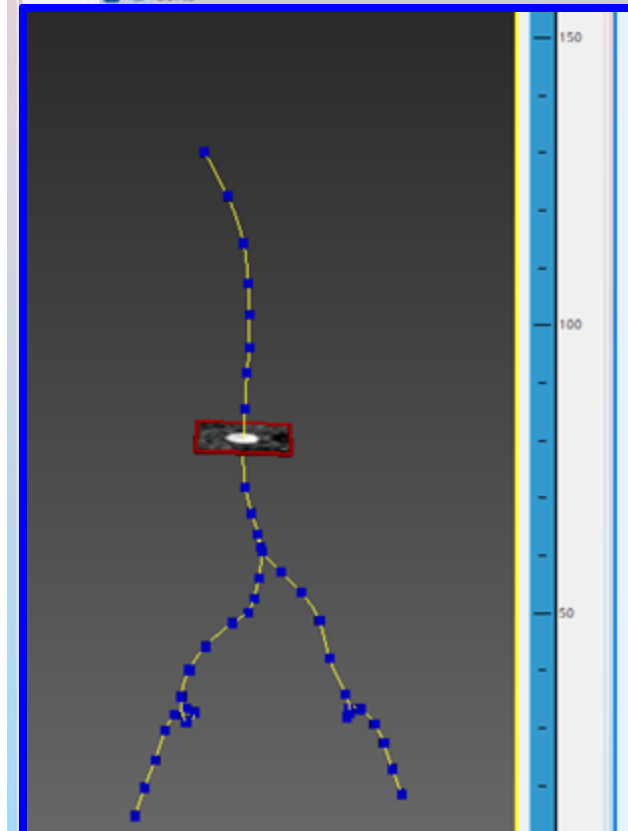
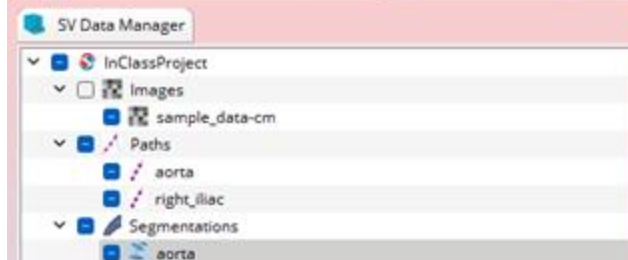
Cancel

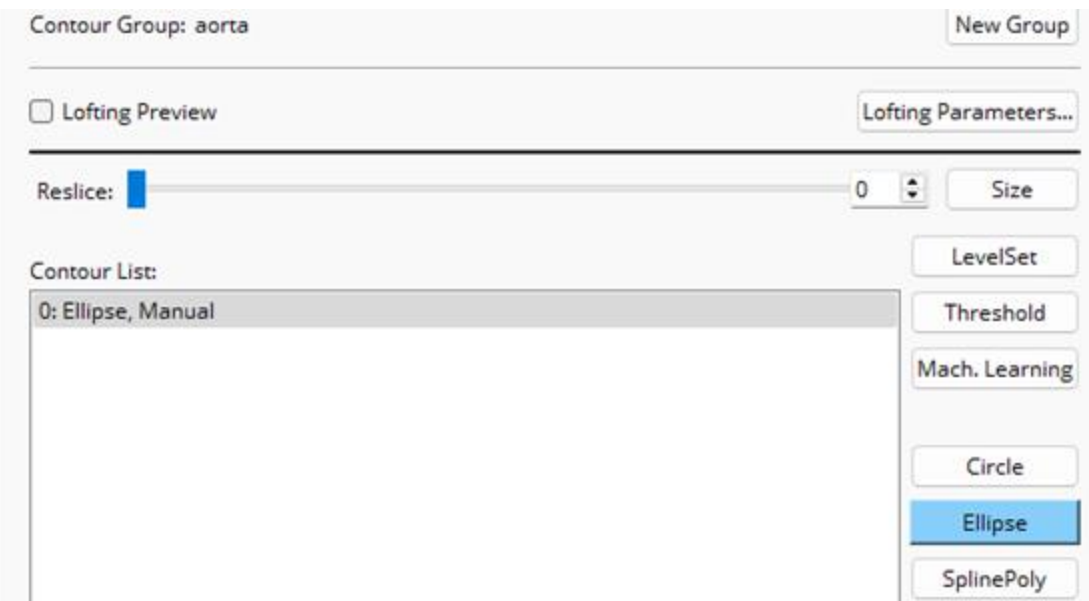
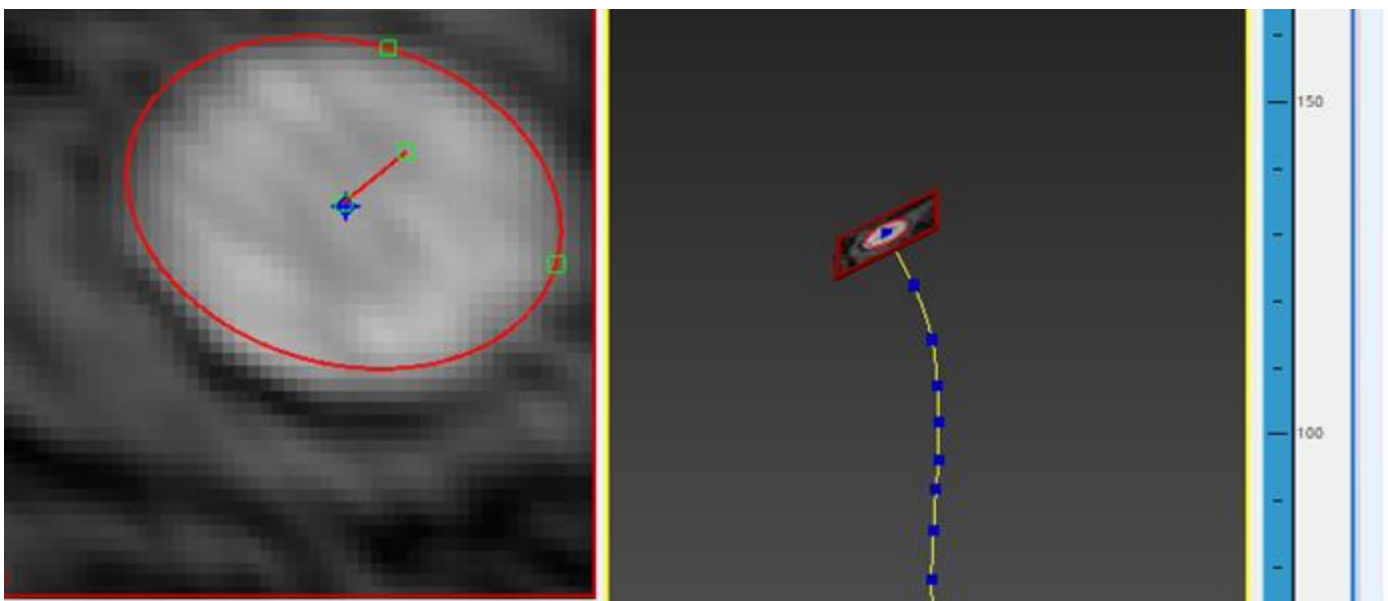
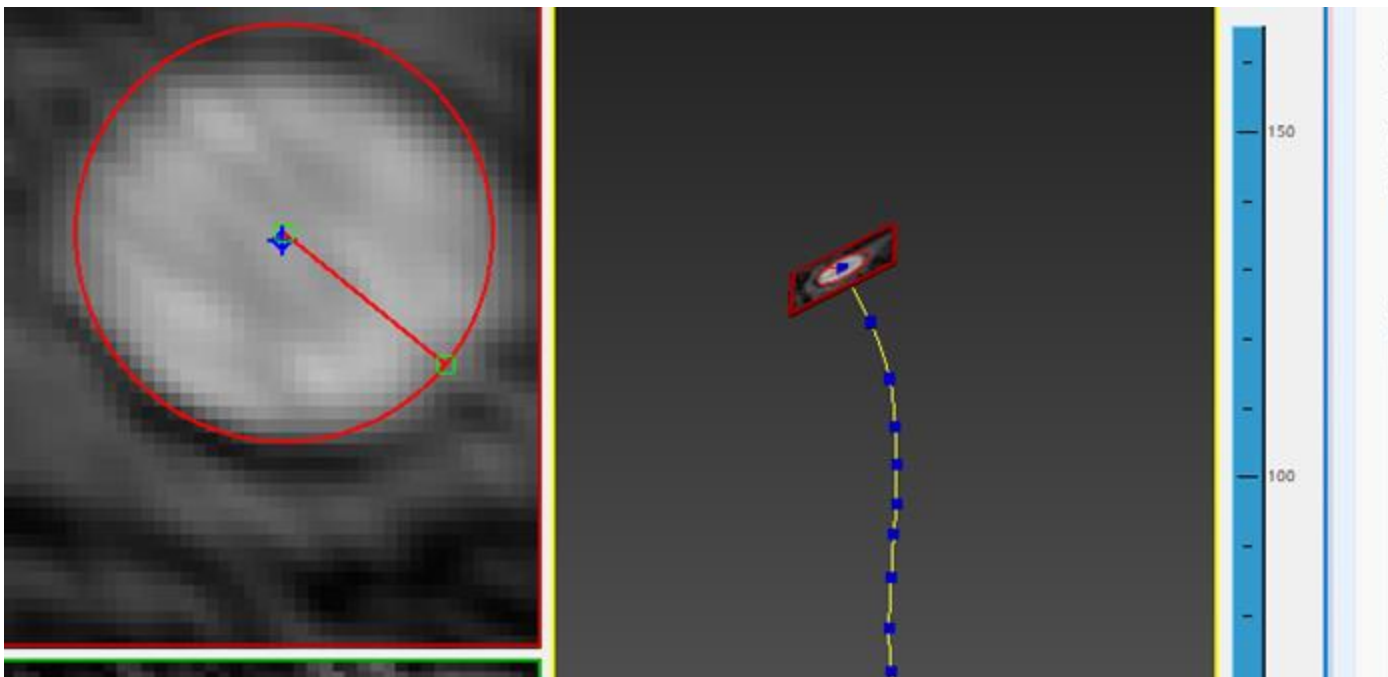


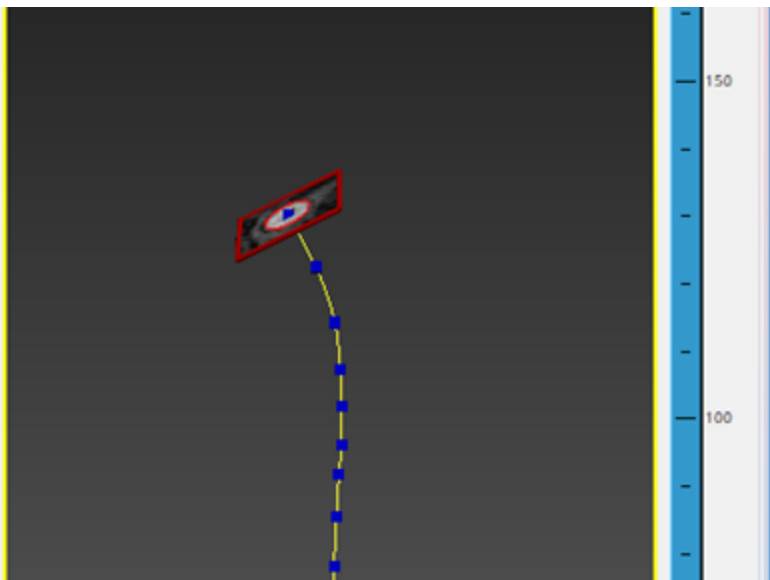
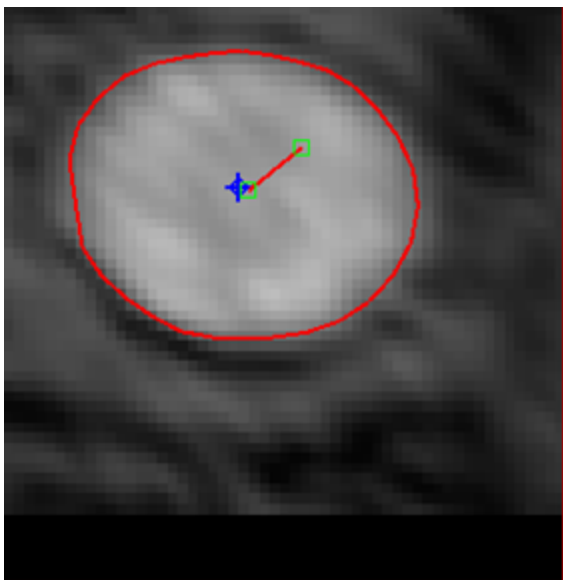


**Double click the aorta
segmentation we created**









Contour Group: aorta

☐ Lofting Preview Lofting Parameters...

Reslice: 0 Size

☐ Smooth Fourier Number: LevelSet

☐ Convert to Spline Ctrl No.: Threshold

☐ Batch Mode List:

Mach. Learning

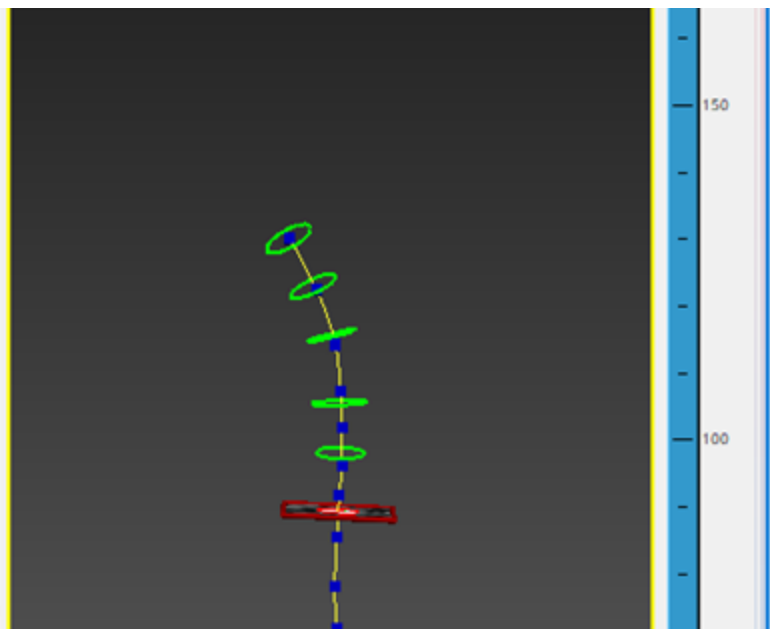
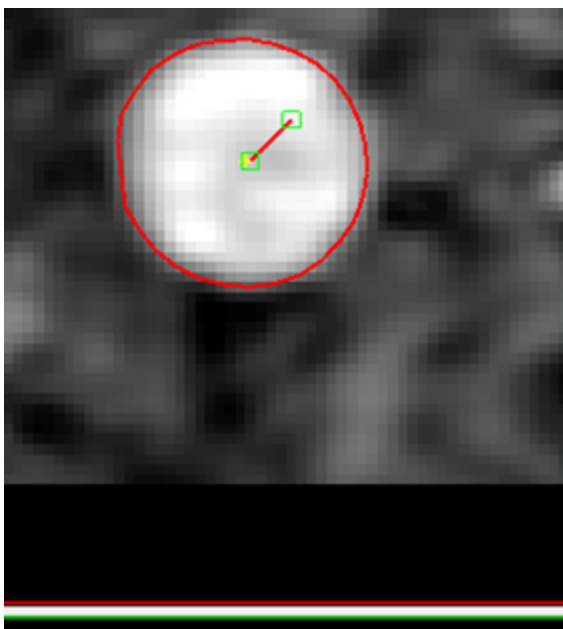
Contour List:

- 0: Contour, ML

Circle

Ellipse

SplinePoly



Contour Group: aorta

☐ Lofting Preview Lofting Parameters...

Reslice: 170 Size

☐ Smooth Fourier Number: LevelSet

☐ Convert to Spline Ctrl No.: Threshold

☐ Batch Mode List:

Mach. Learning

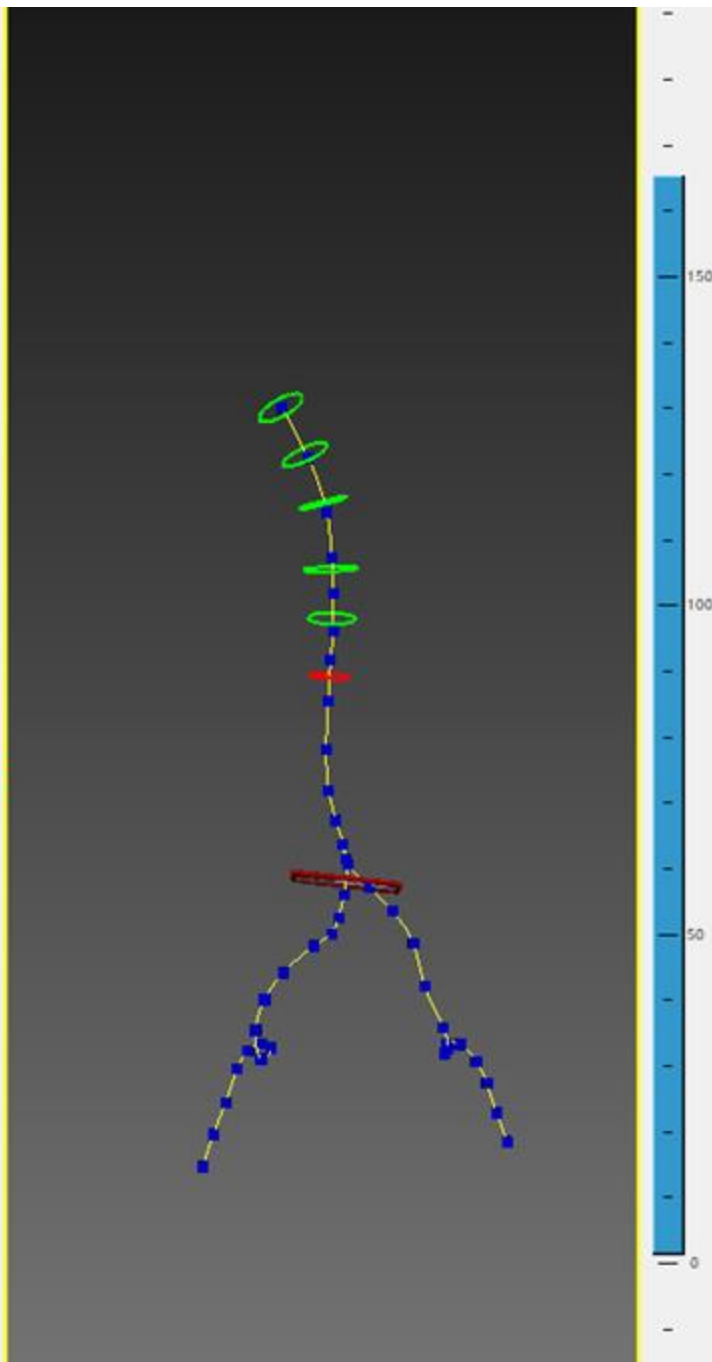
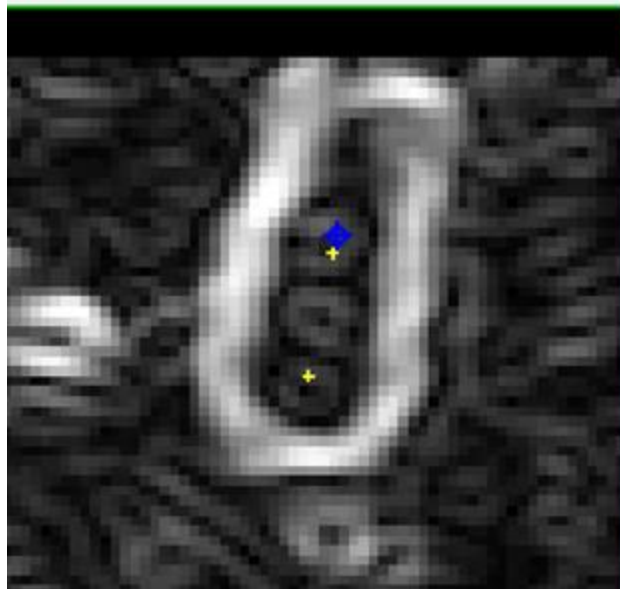
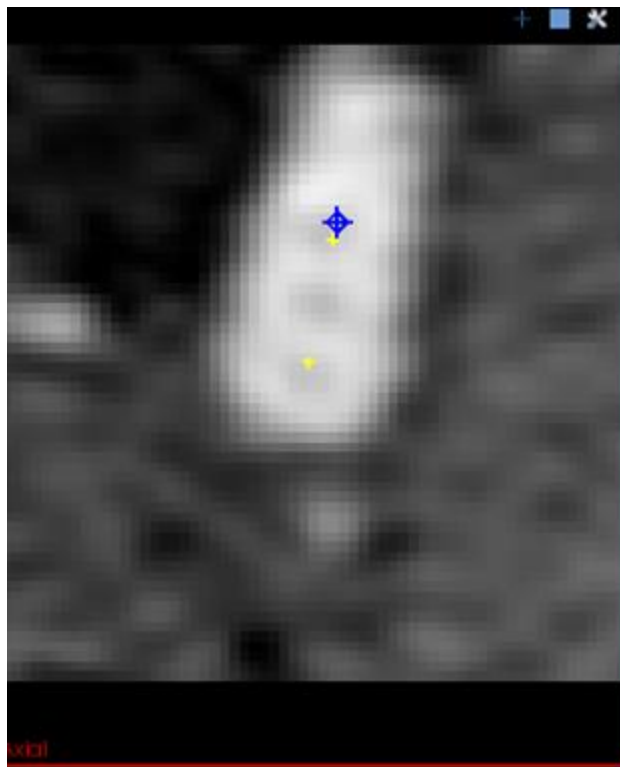
Contour List:

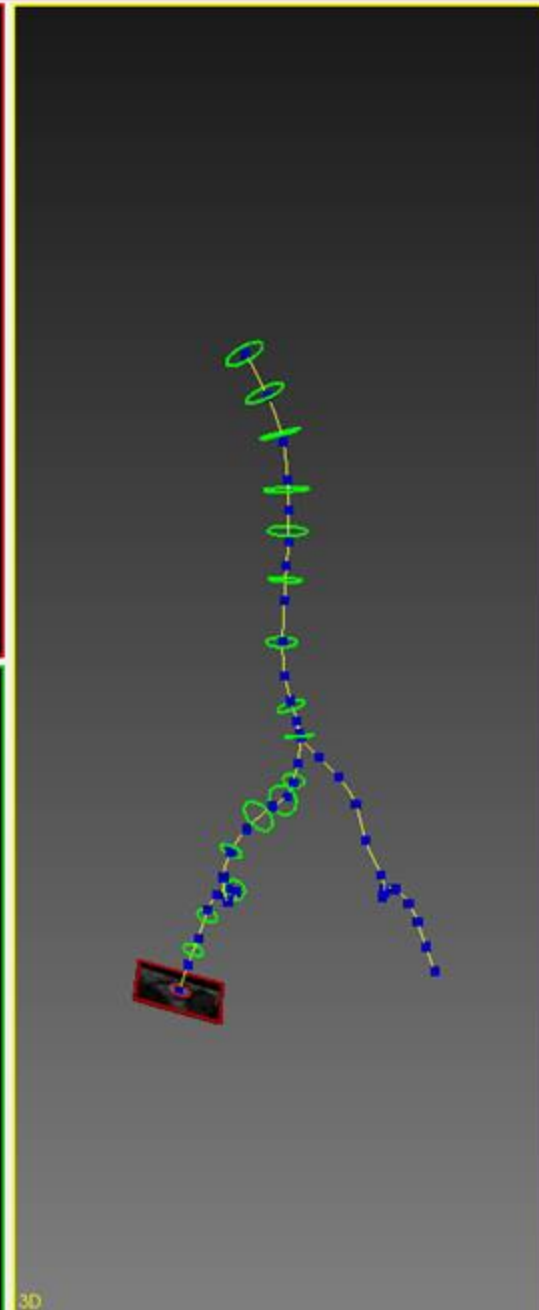
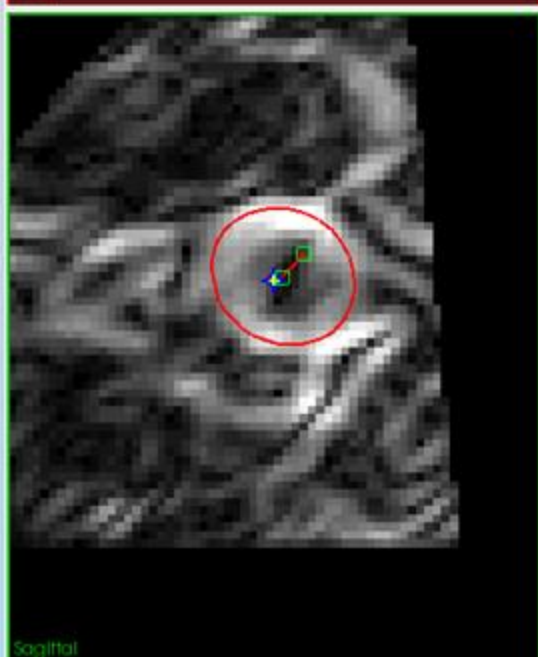
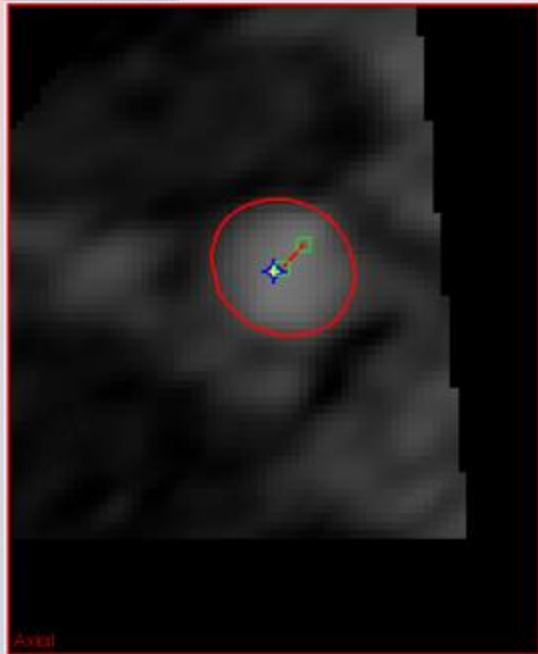
- 0: Contour, ML
- 1: Contour, ML
- 2: Contour, ML
- 3: Contour, ML
- 4: Contour, ML
- 5: Contour, ML

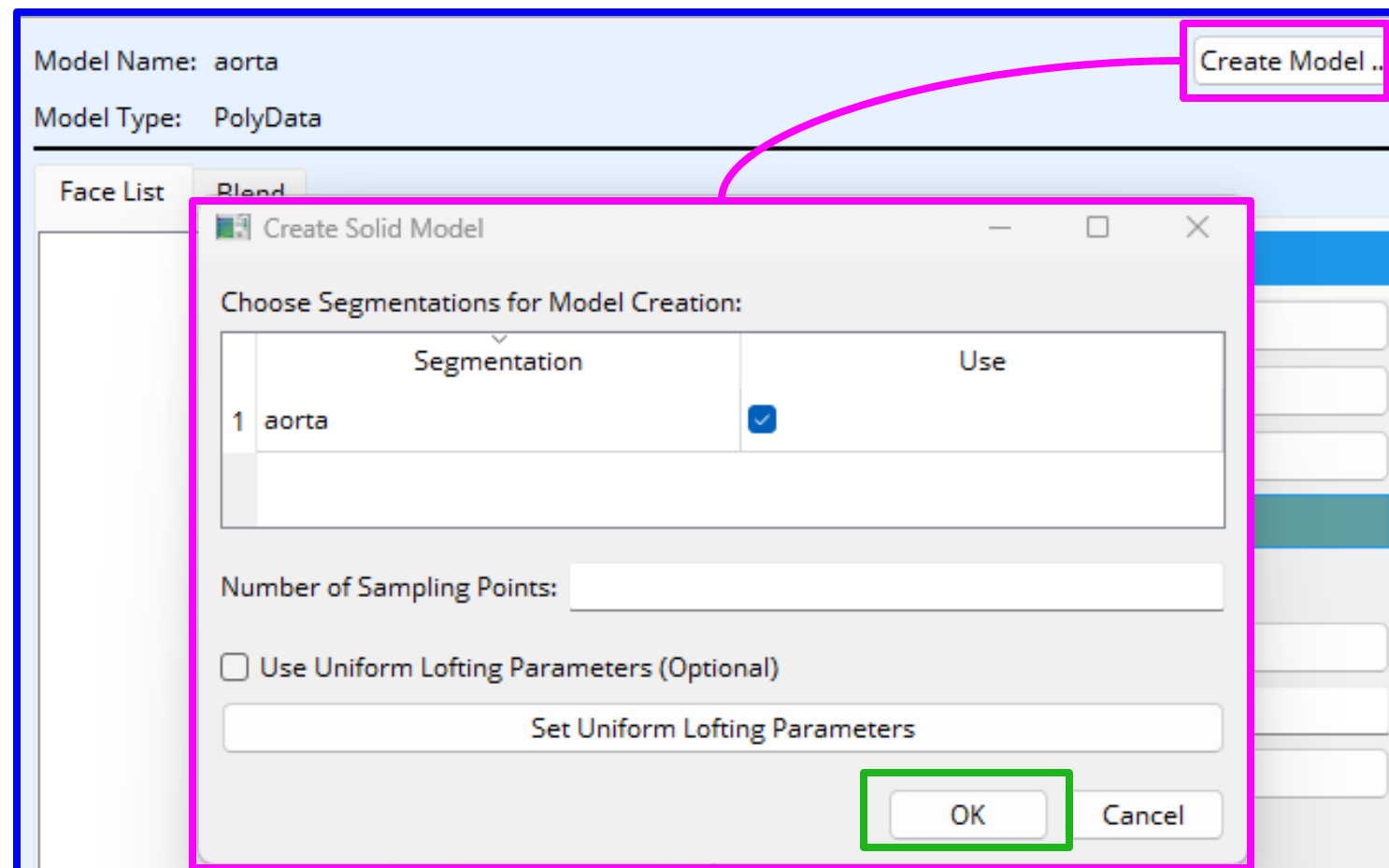
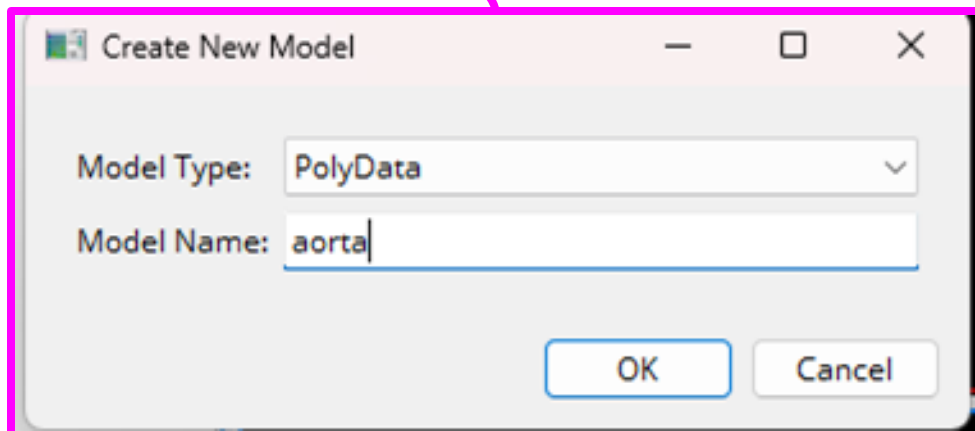
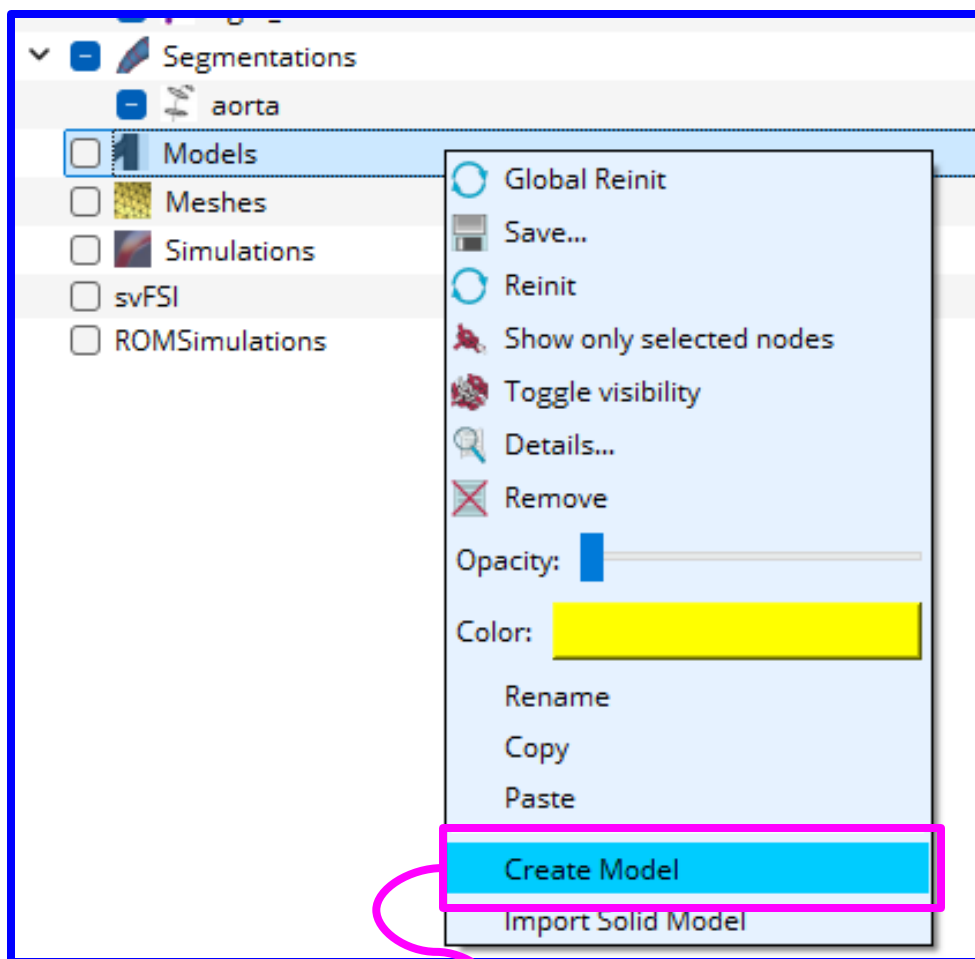
Circle

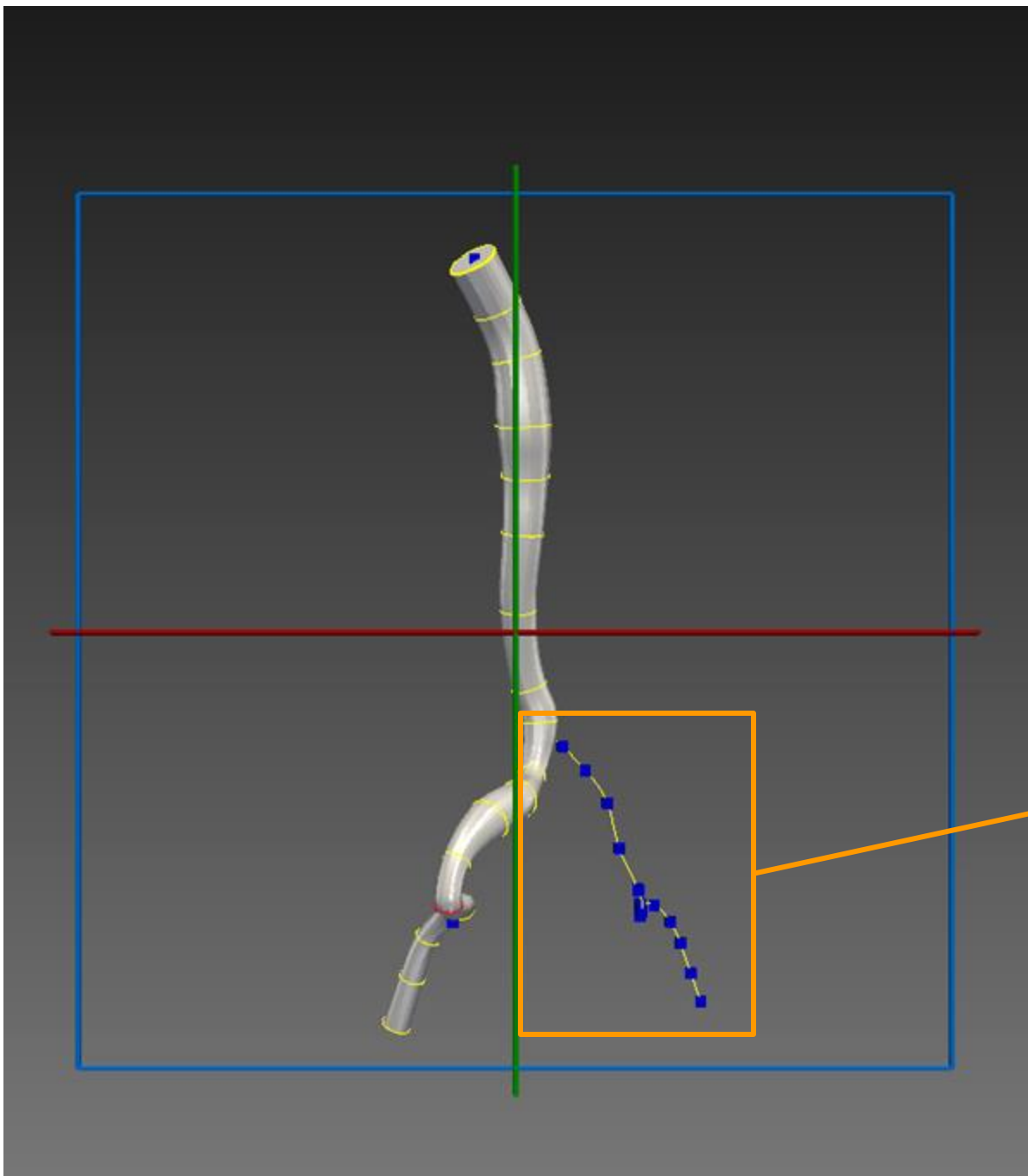
Ellipse

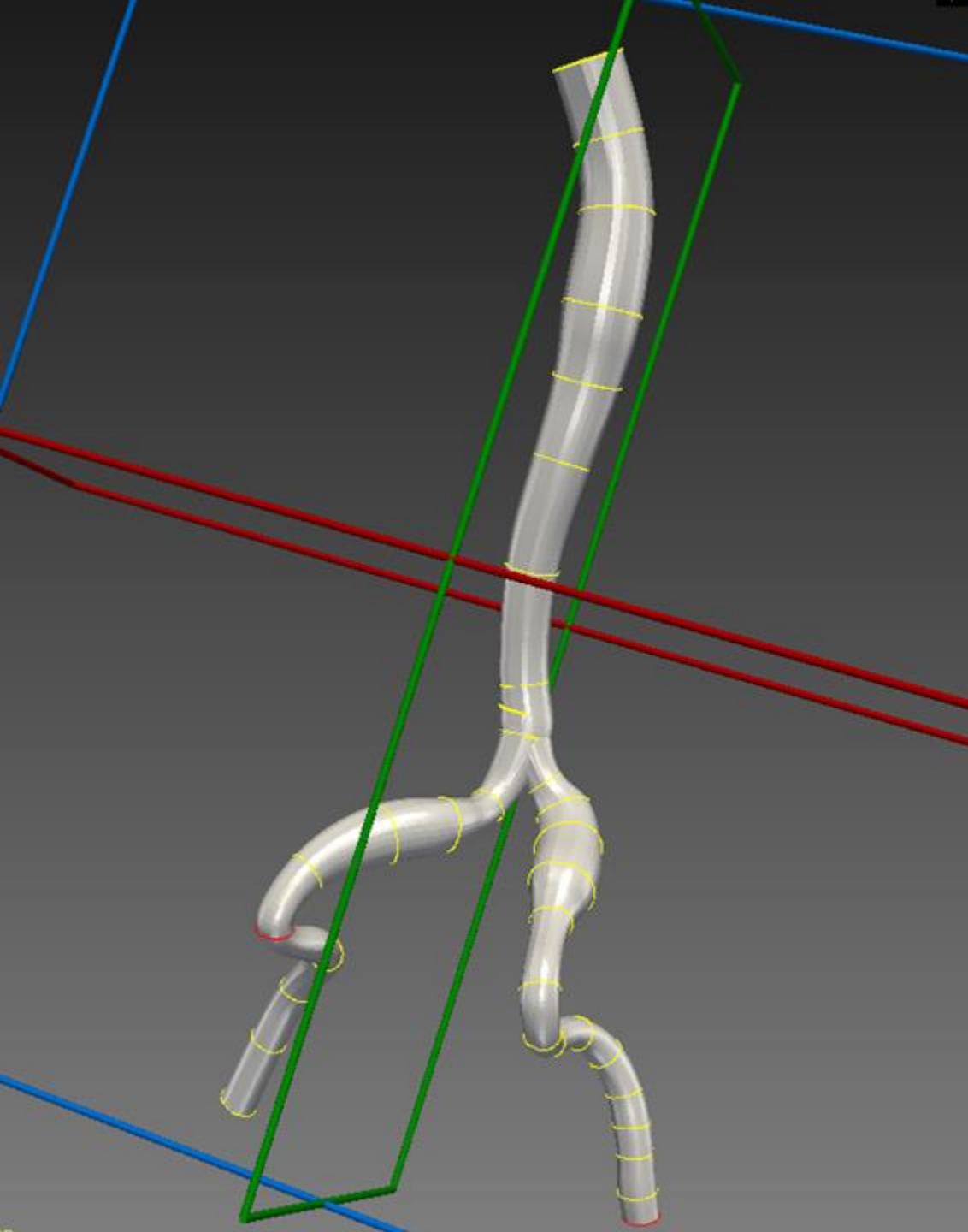
SplinePoly











Model Name: test

Create Model ...

Model Type: PolyData

Face List

Blend

Create Solid Model

Choose Segmentations for Model Creation:

	Segmentation	Use
1	aorta	<input checked="" type="checkbox"/>
2	right iliac	<input checked="" type="checkbox"/>

Number of Sampling Points:

☐ Use Uniform Lofting Parameters (Optional)

Set Uniform Lofting Parameters

OK

Cancel