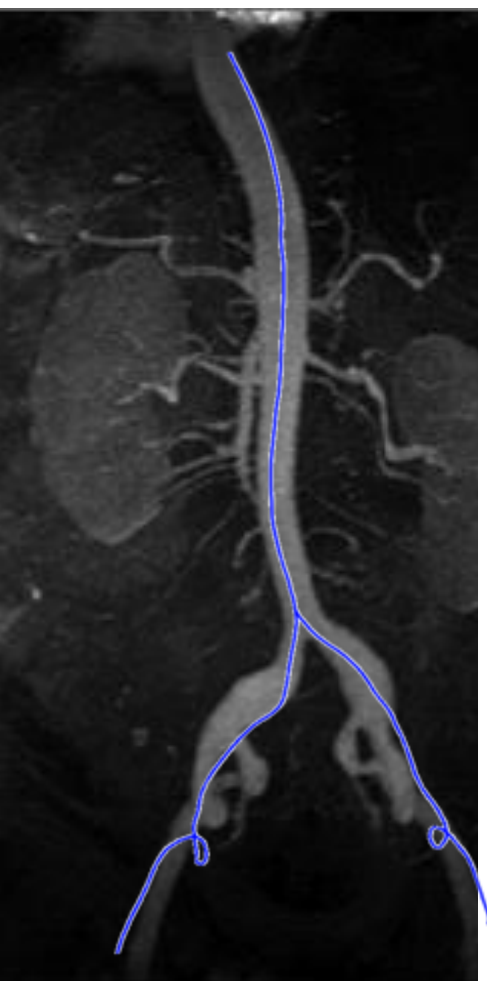
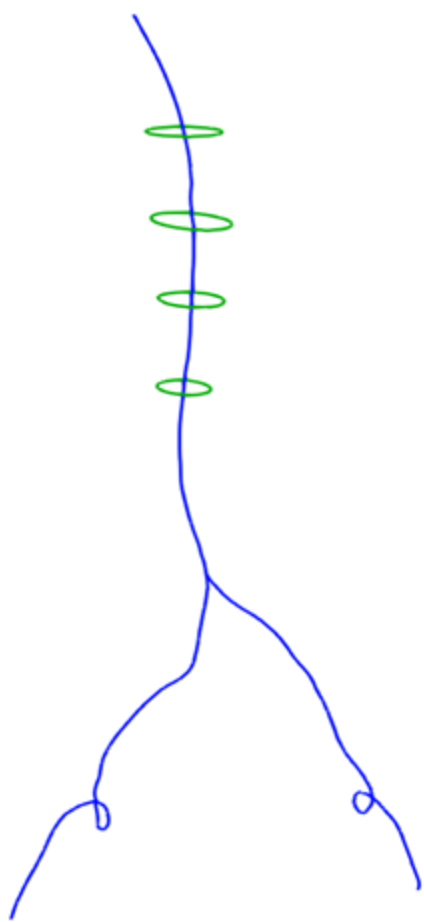


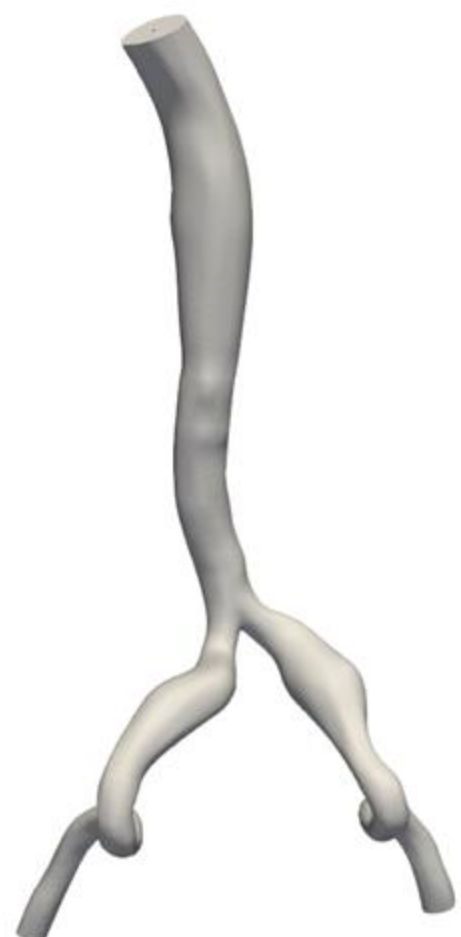
X-Ray images of
aorta and iliac
arteries



PATH



SEGMENTATION



GEOMETRIC
MODEL

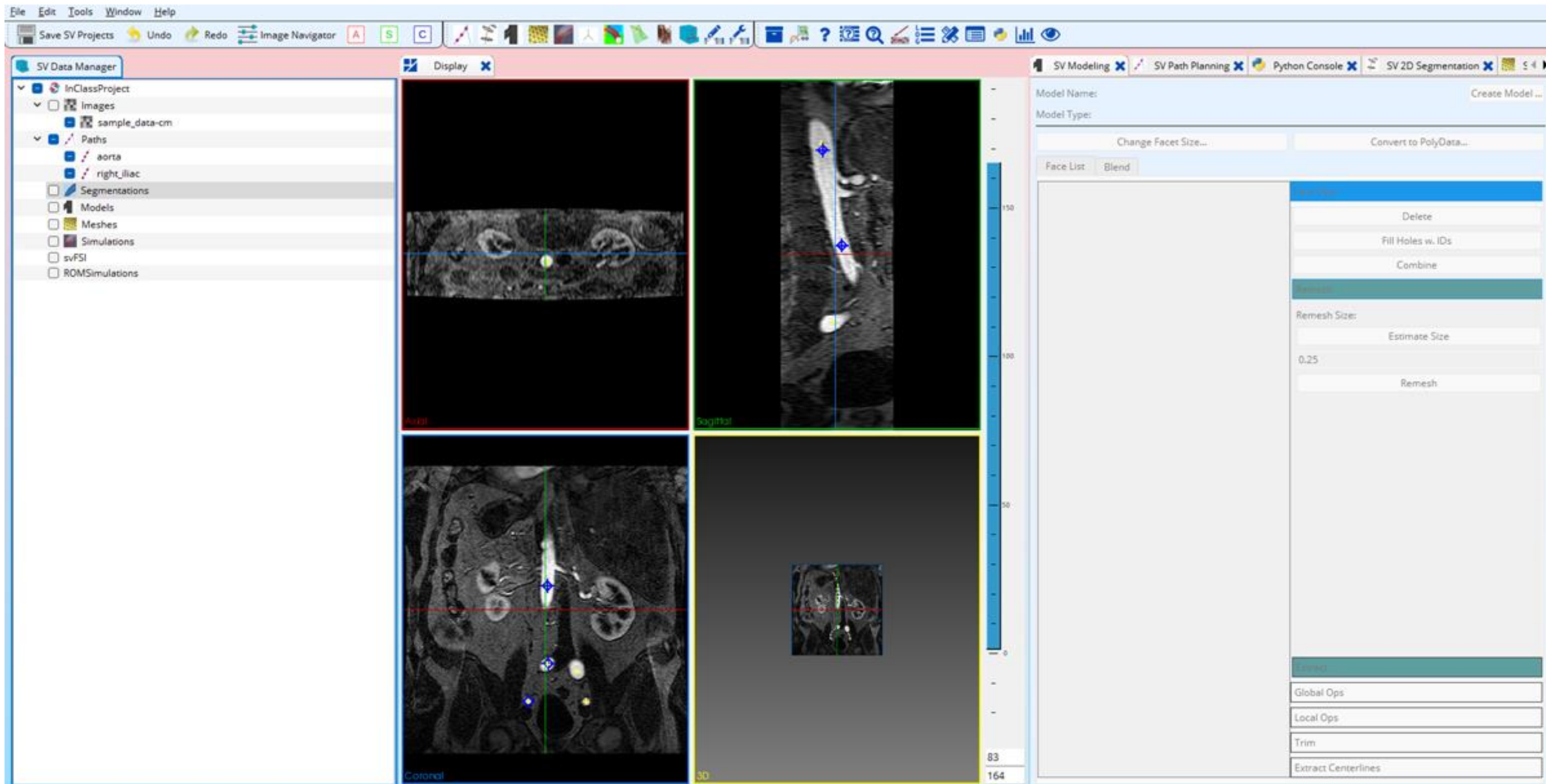


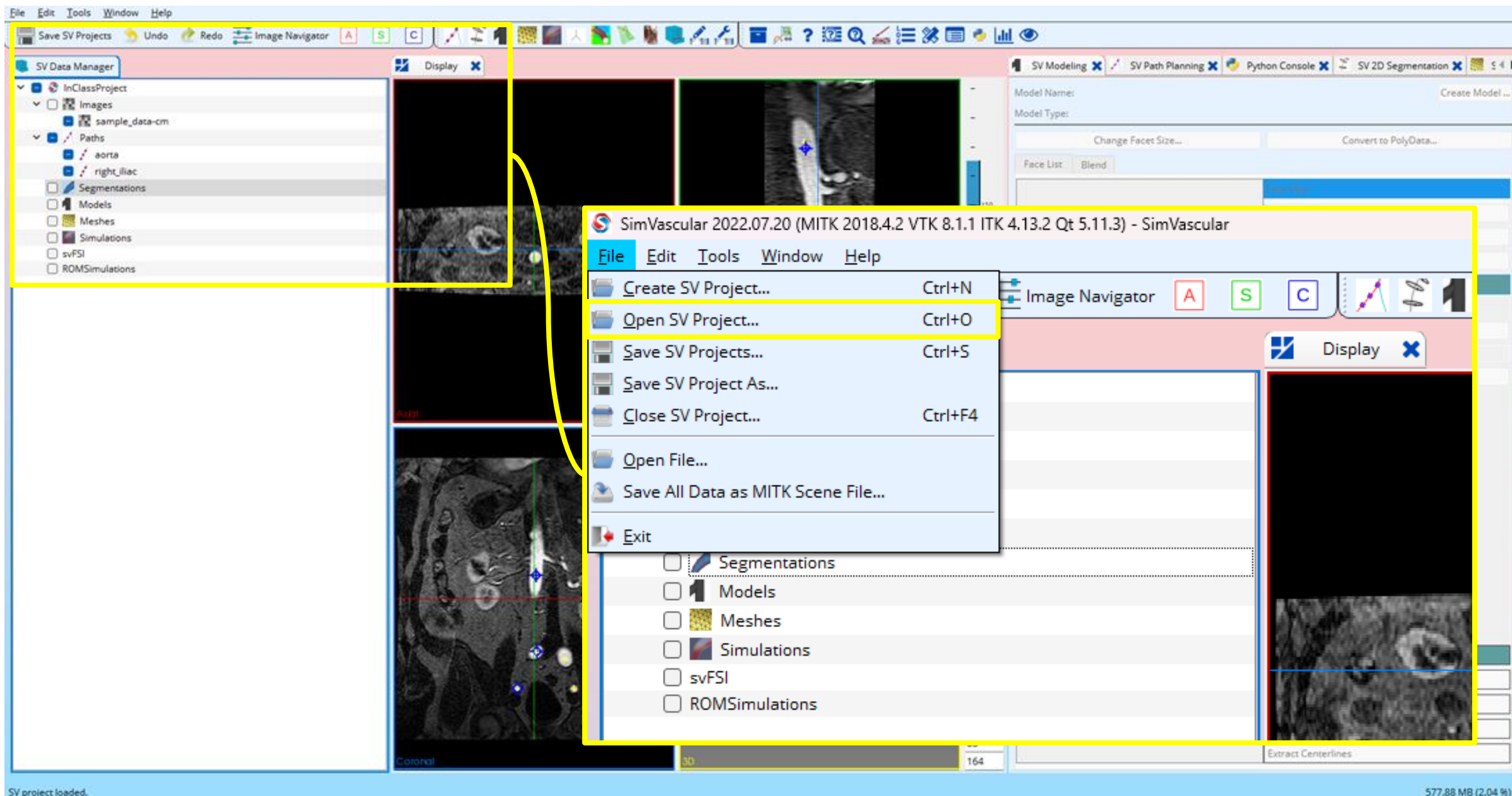
MESH

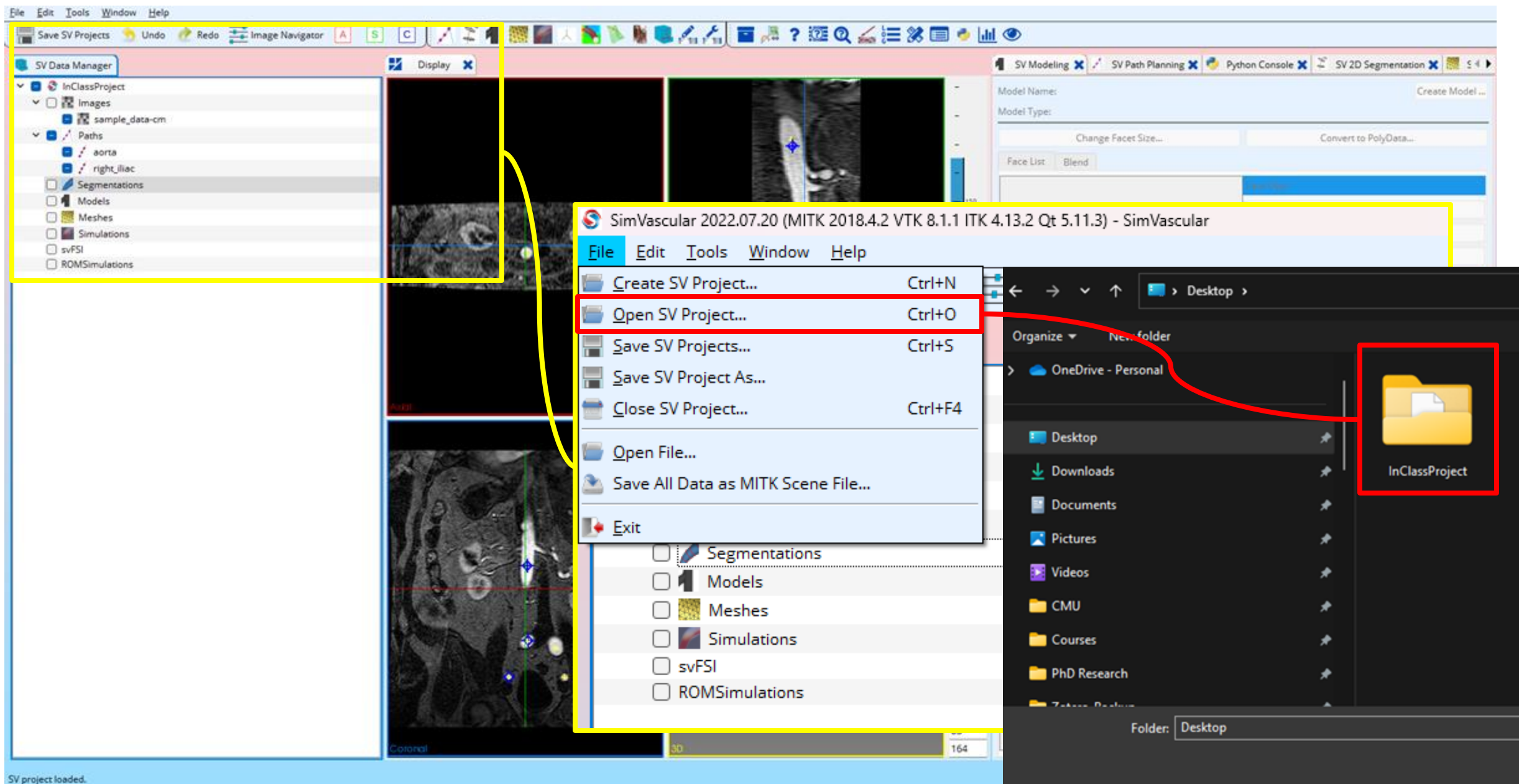


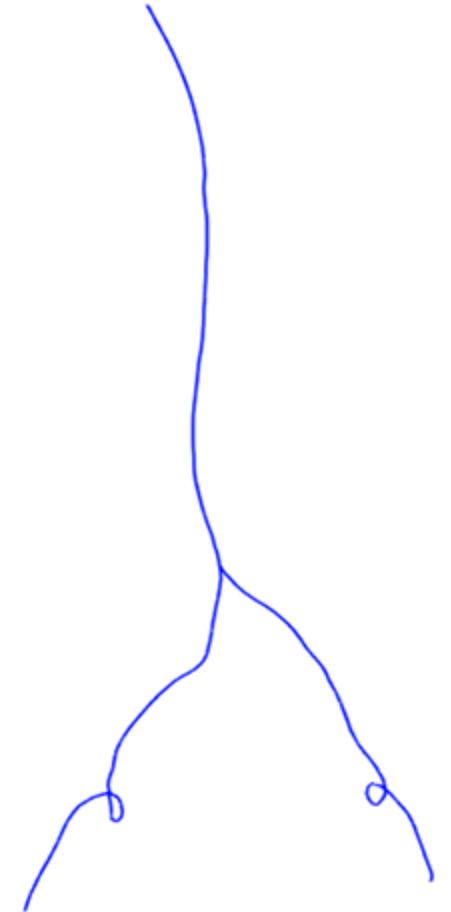
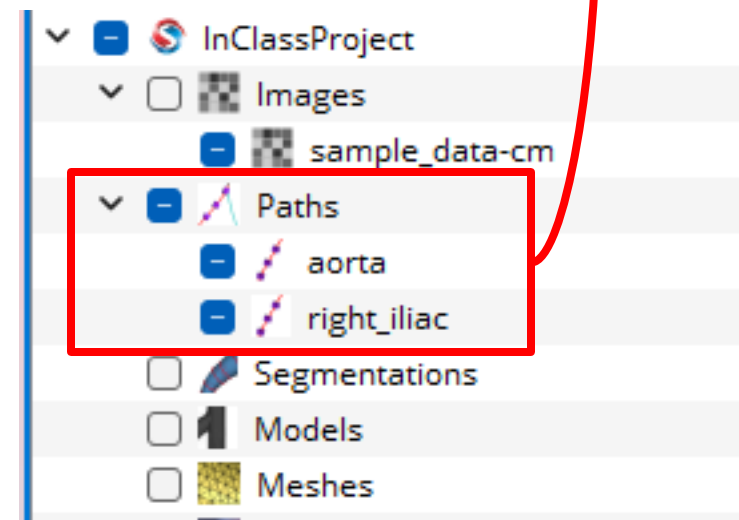
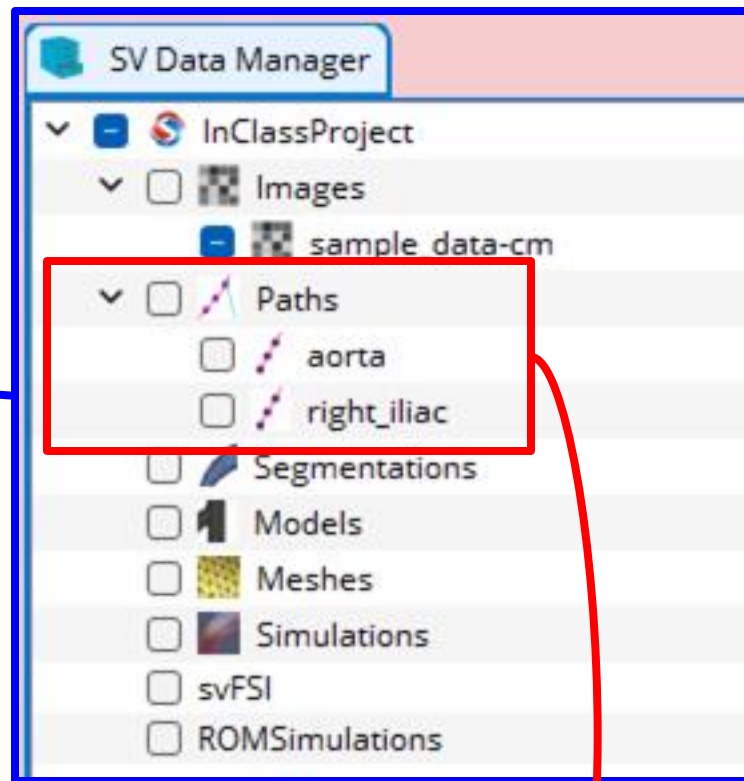
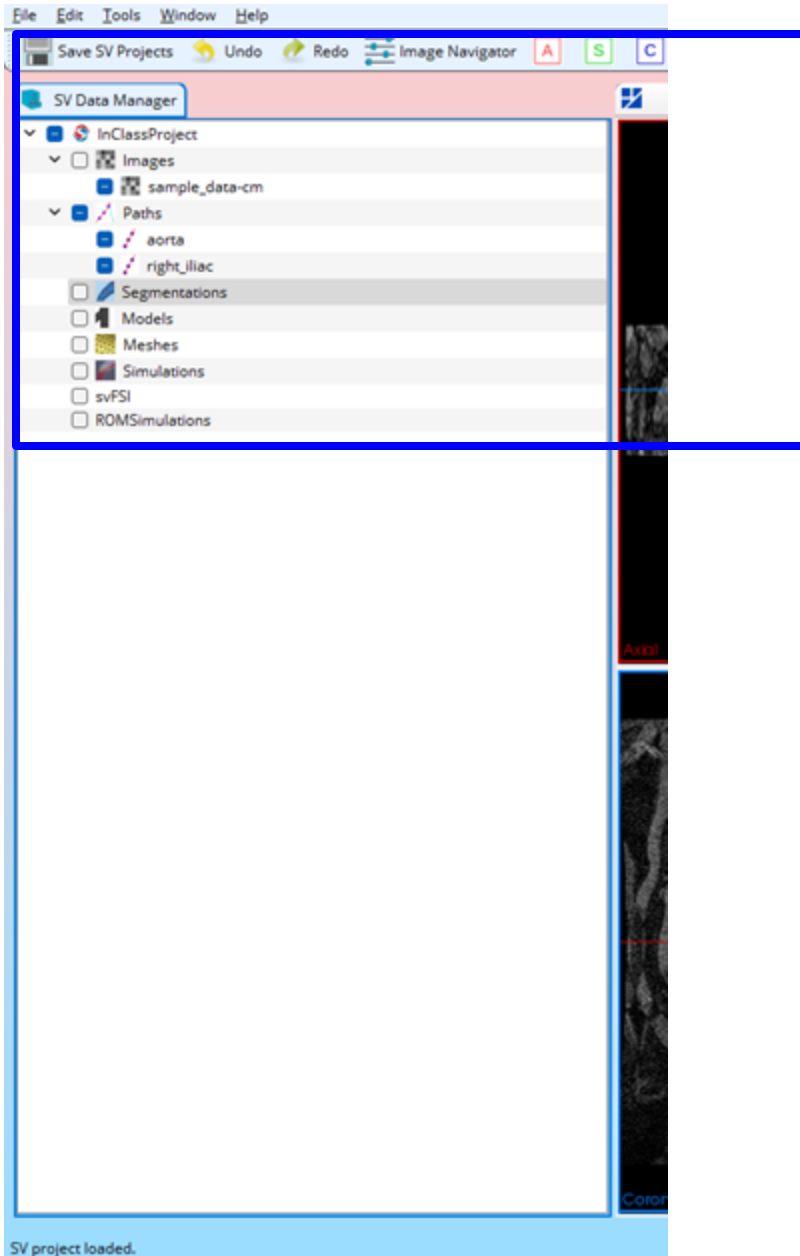
SIMULATION

→ We will build models of these blood vessels!

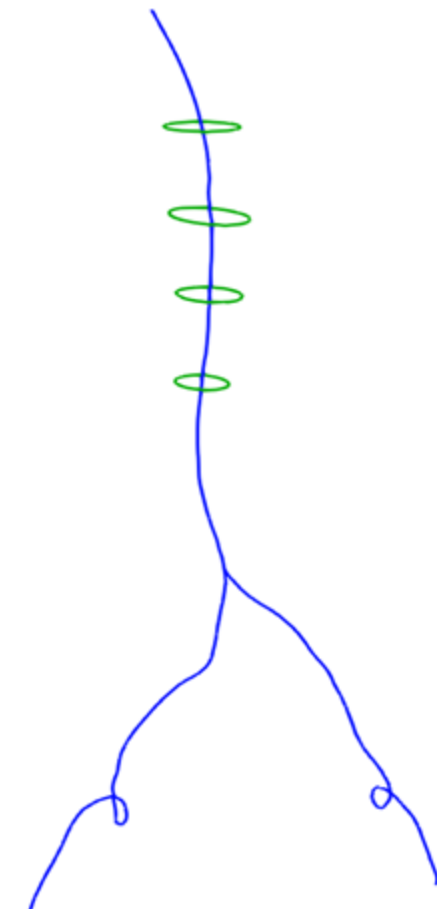
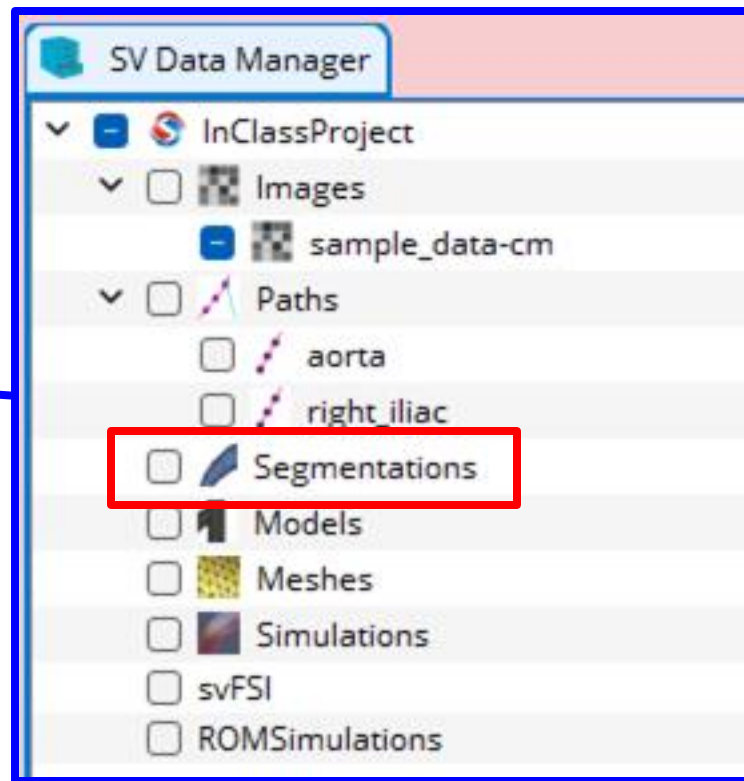
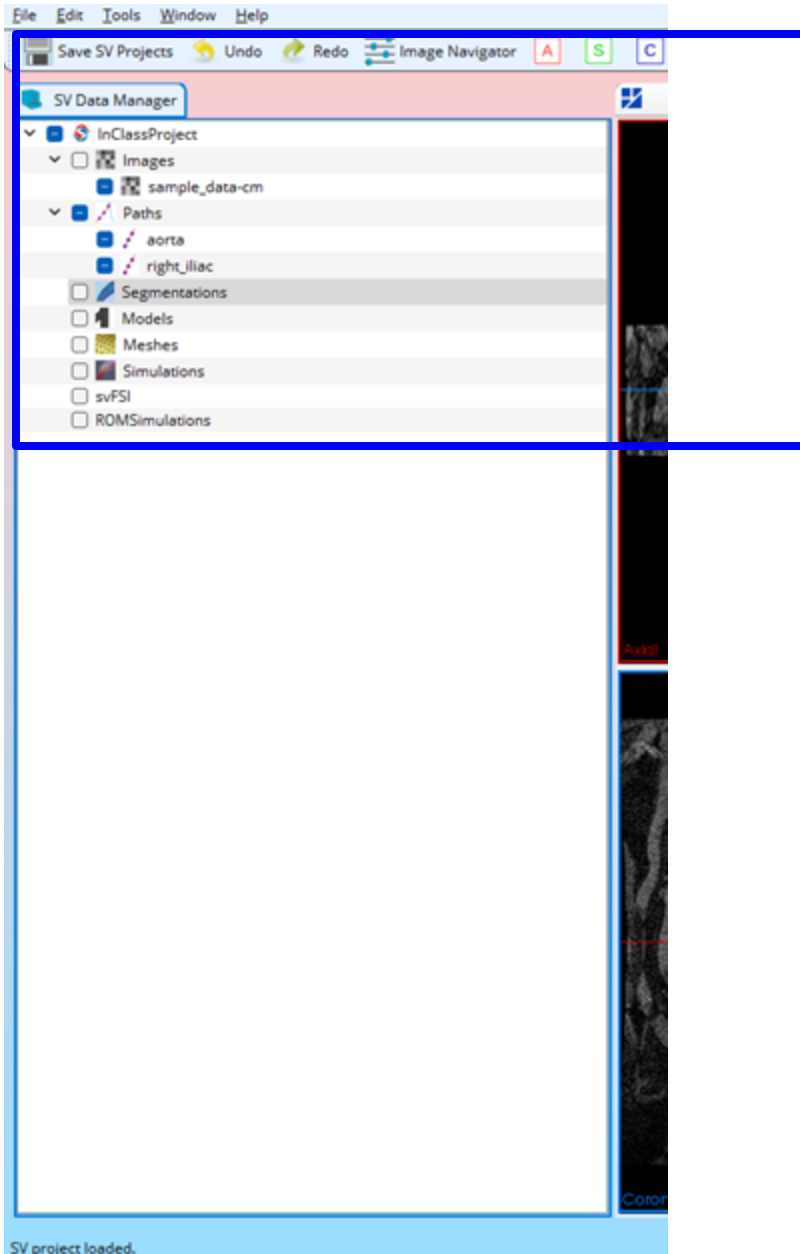








Click the empty box
besides **Paths**



We will create
segmentations of the
aorta and right iliac
arteries

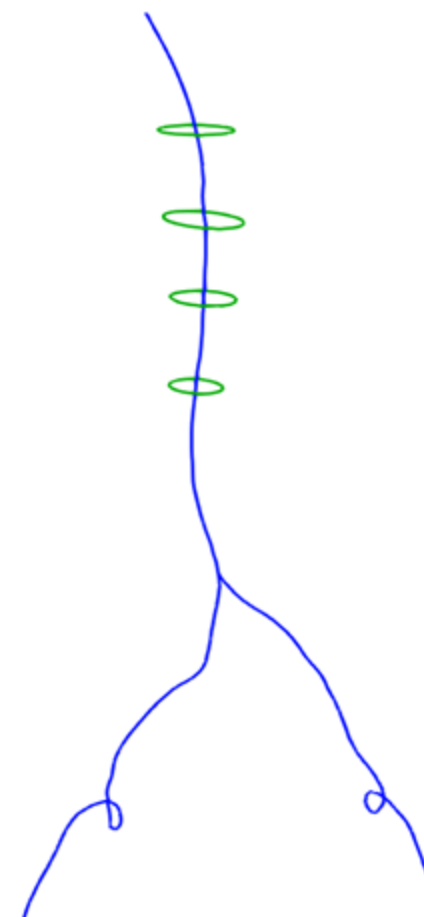
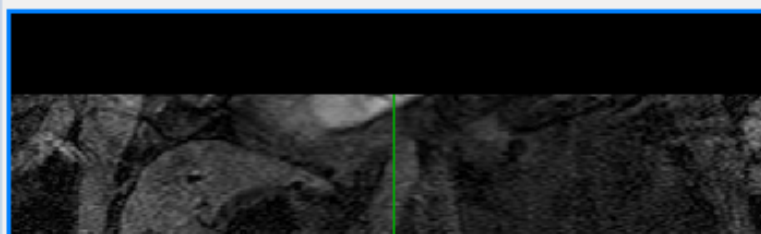
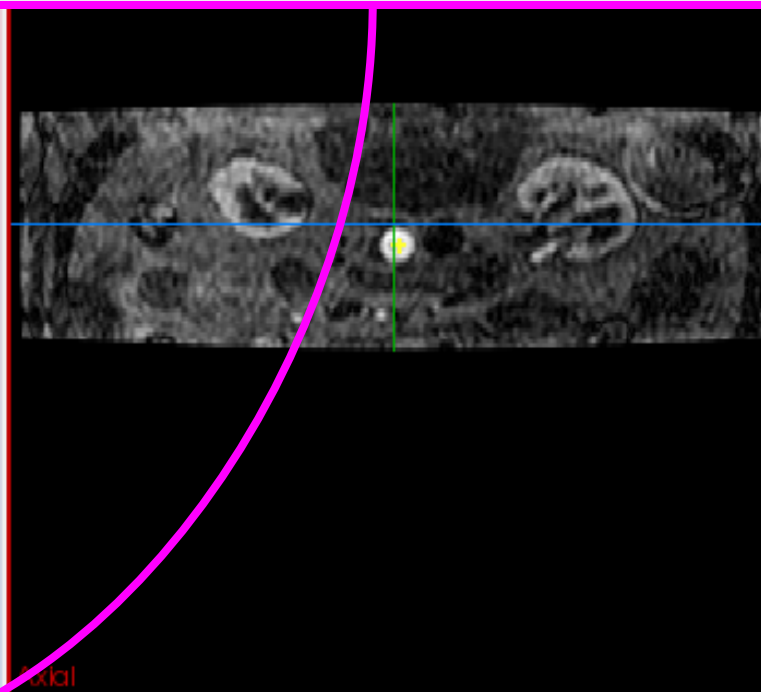
Select Path: aorta

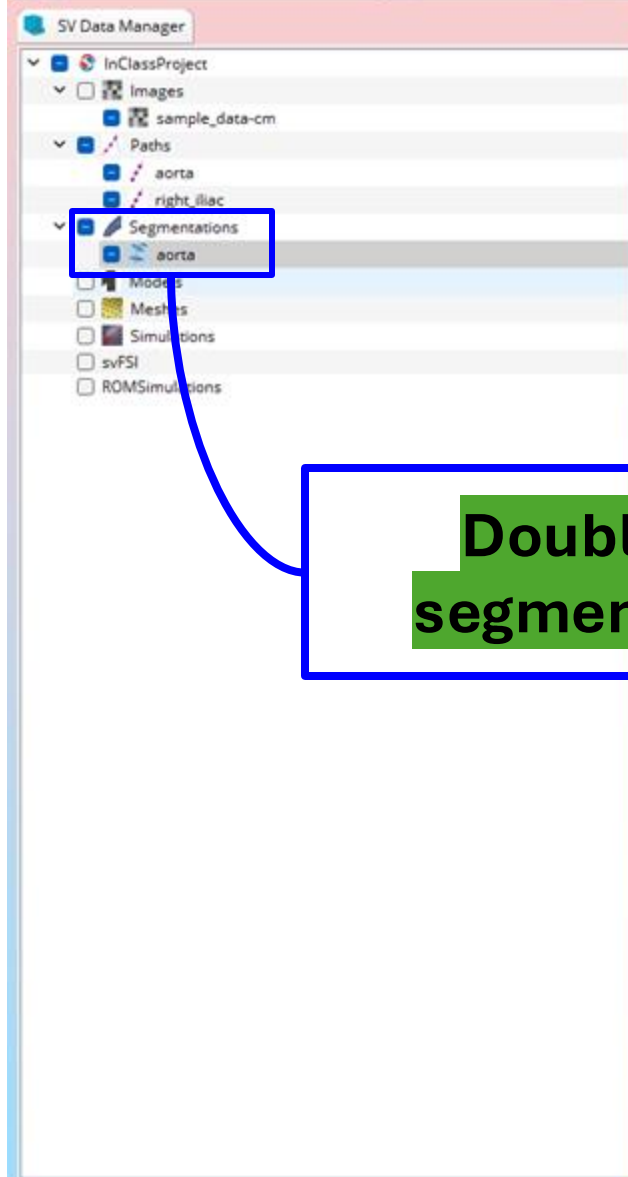
Group Name: aorta

(Using path name by default)

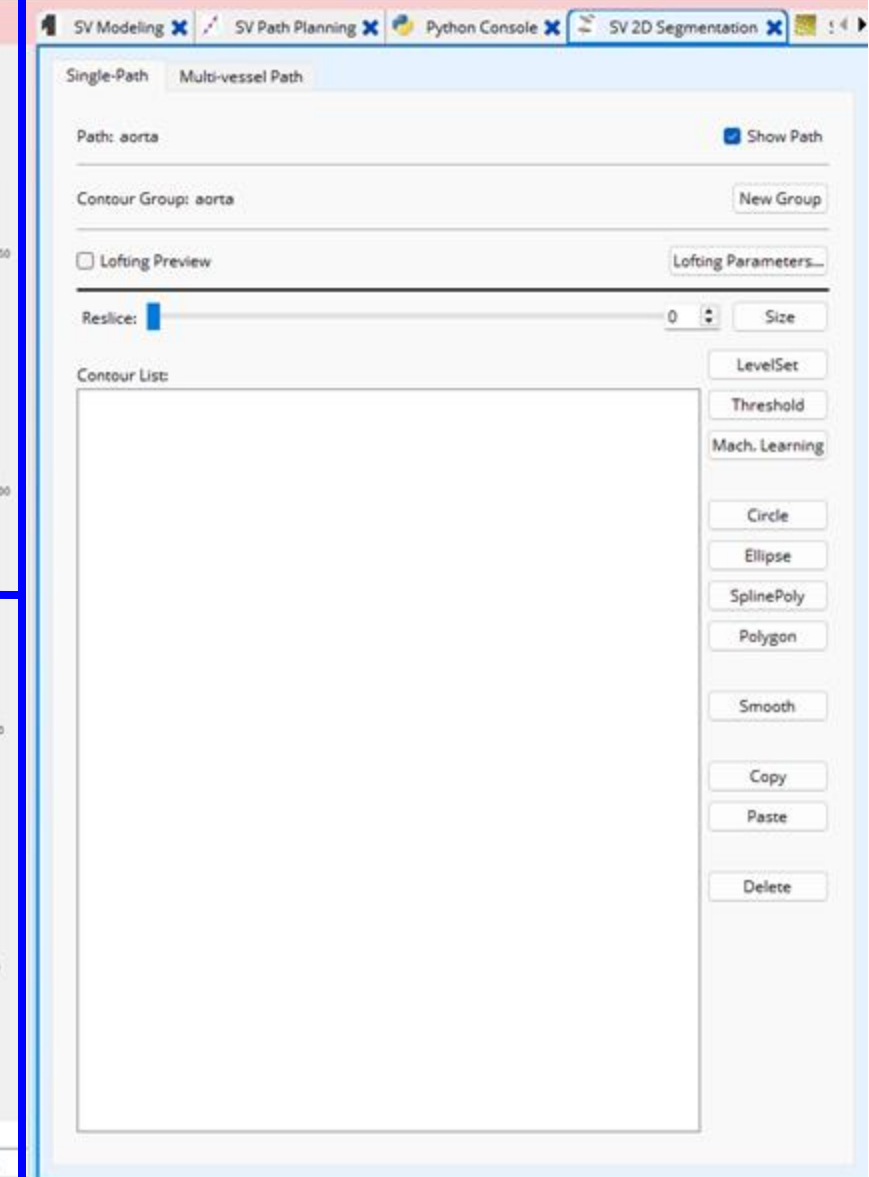
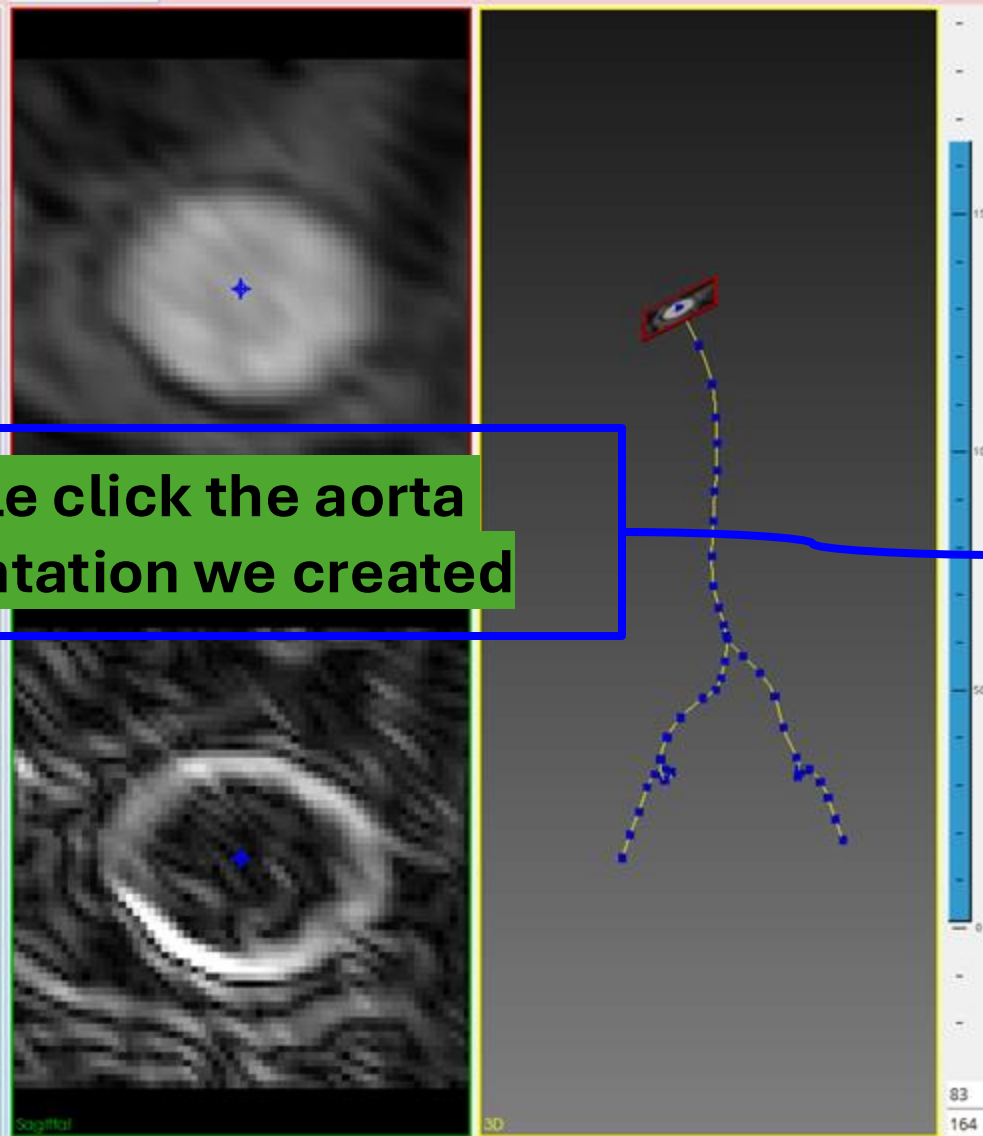
OK

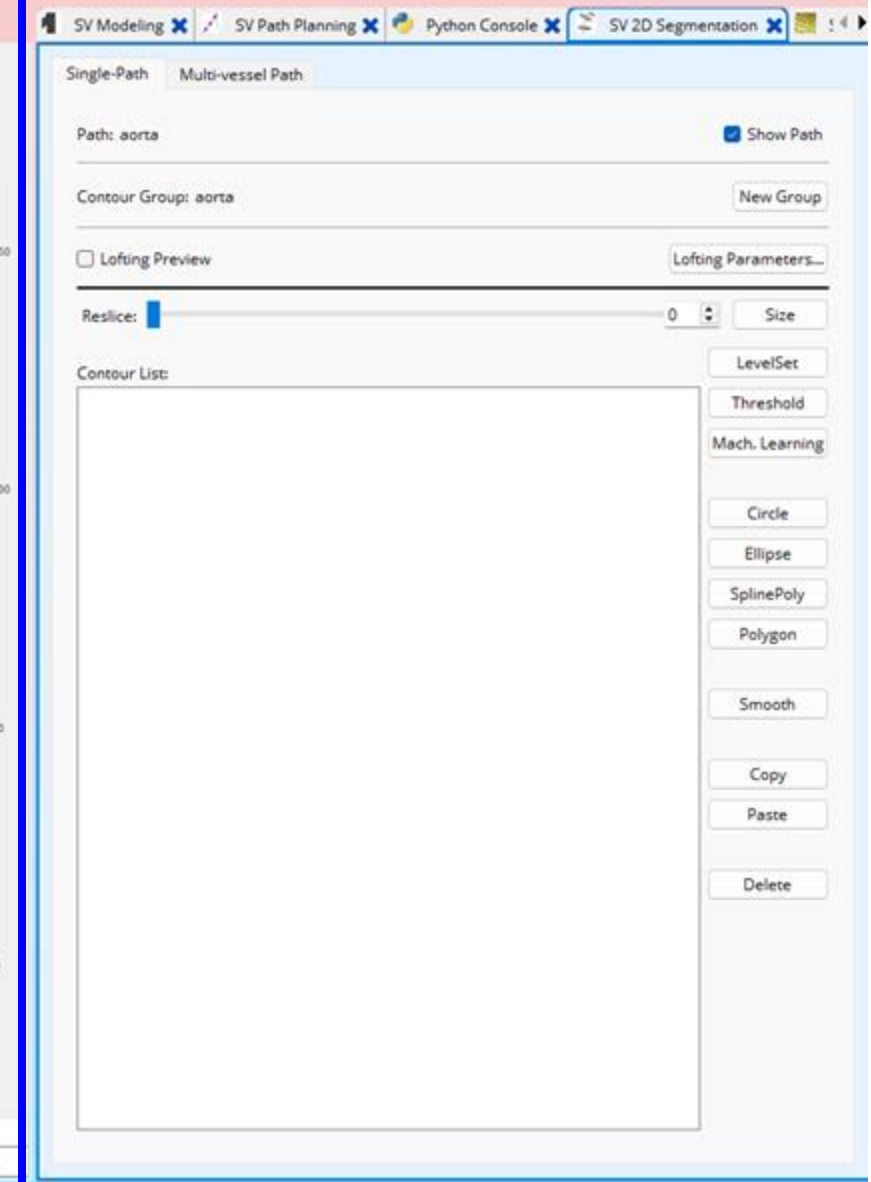
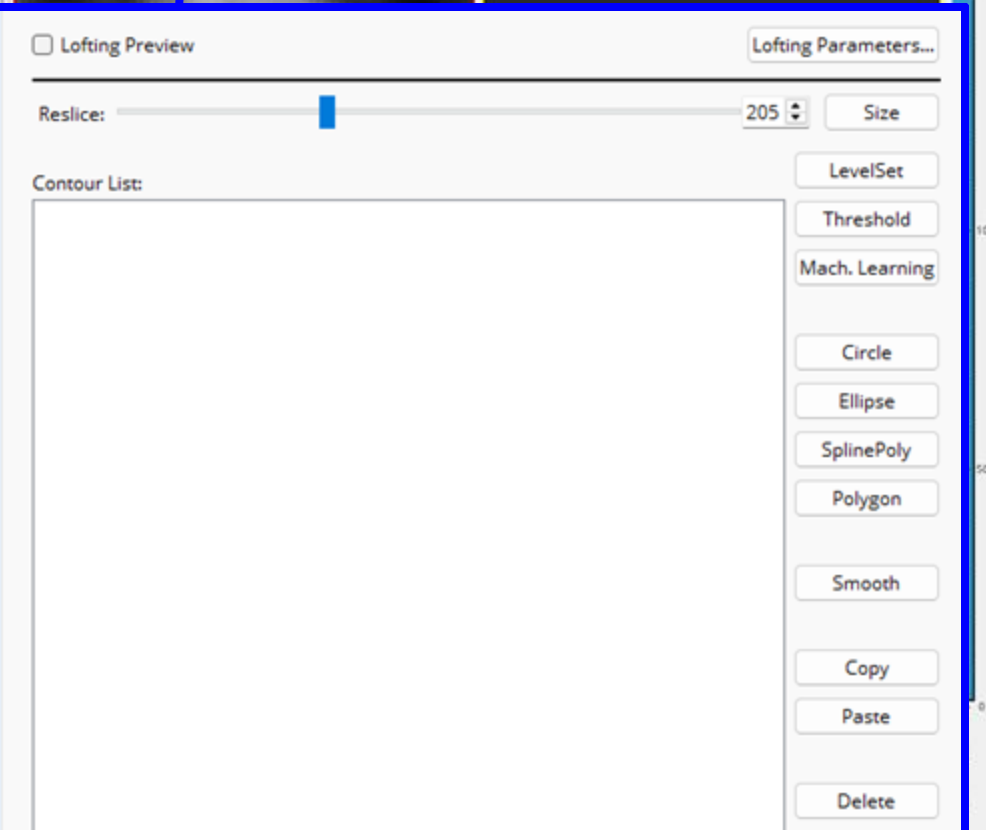
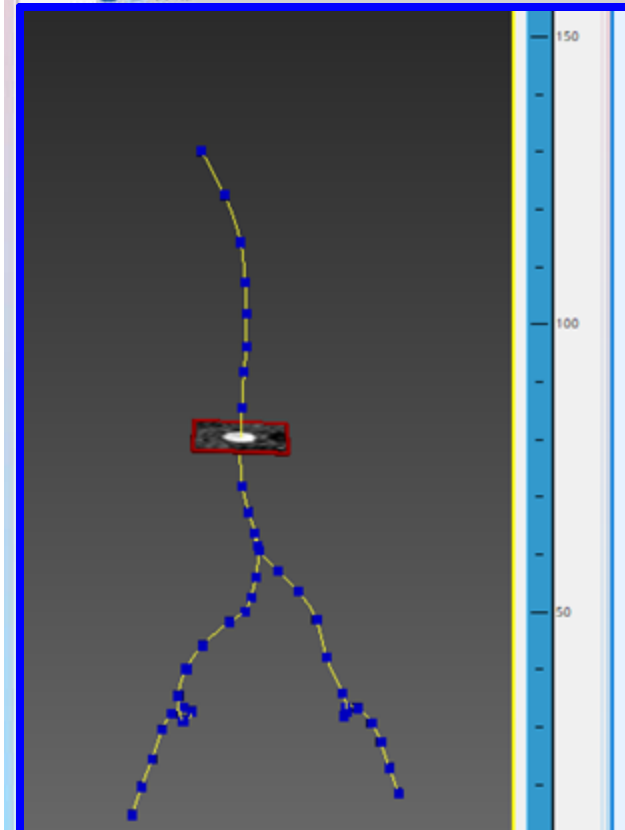
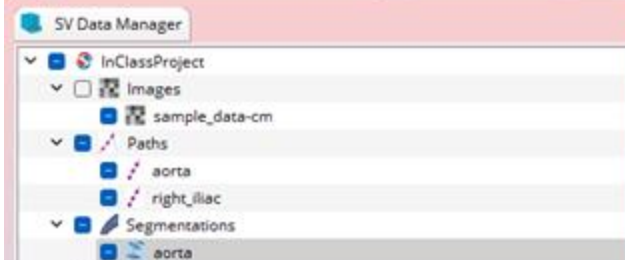
Cancel

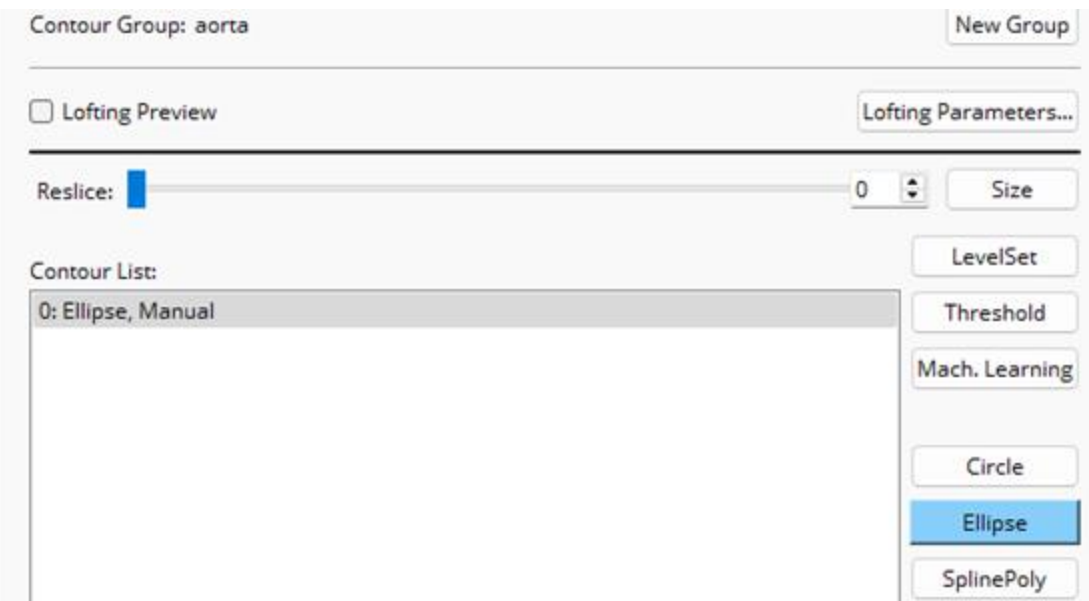
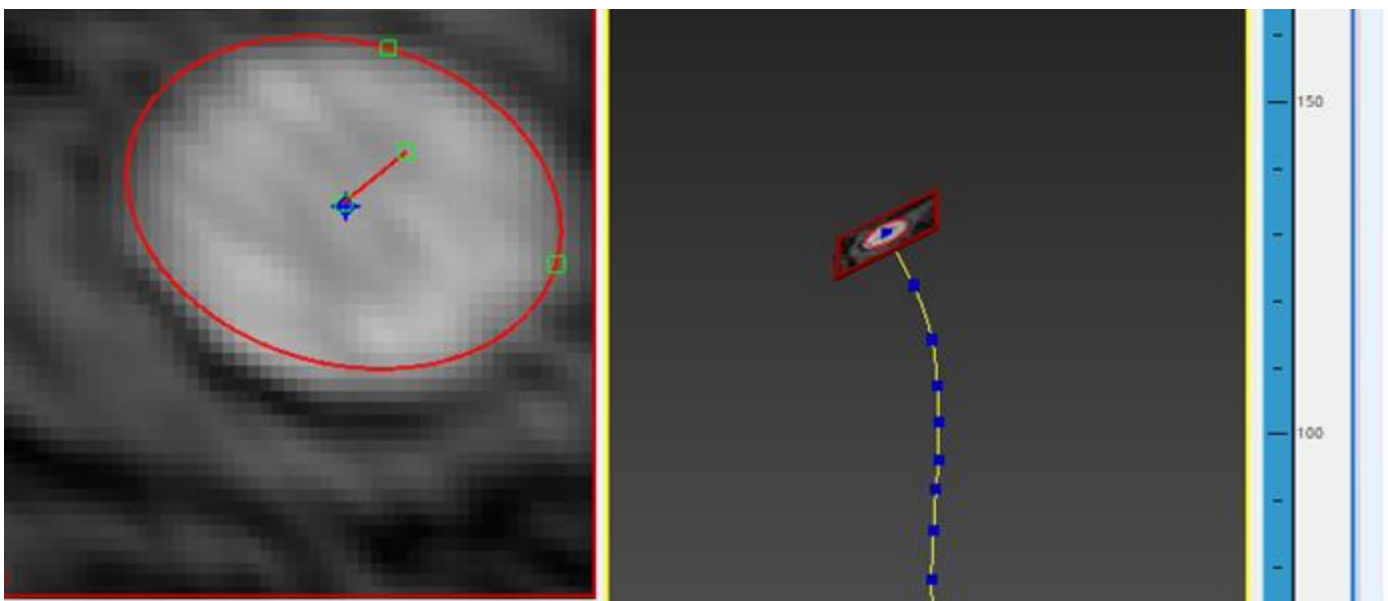
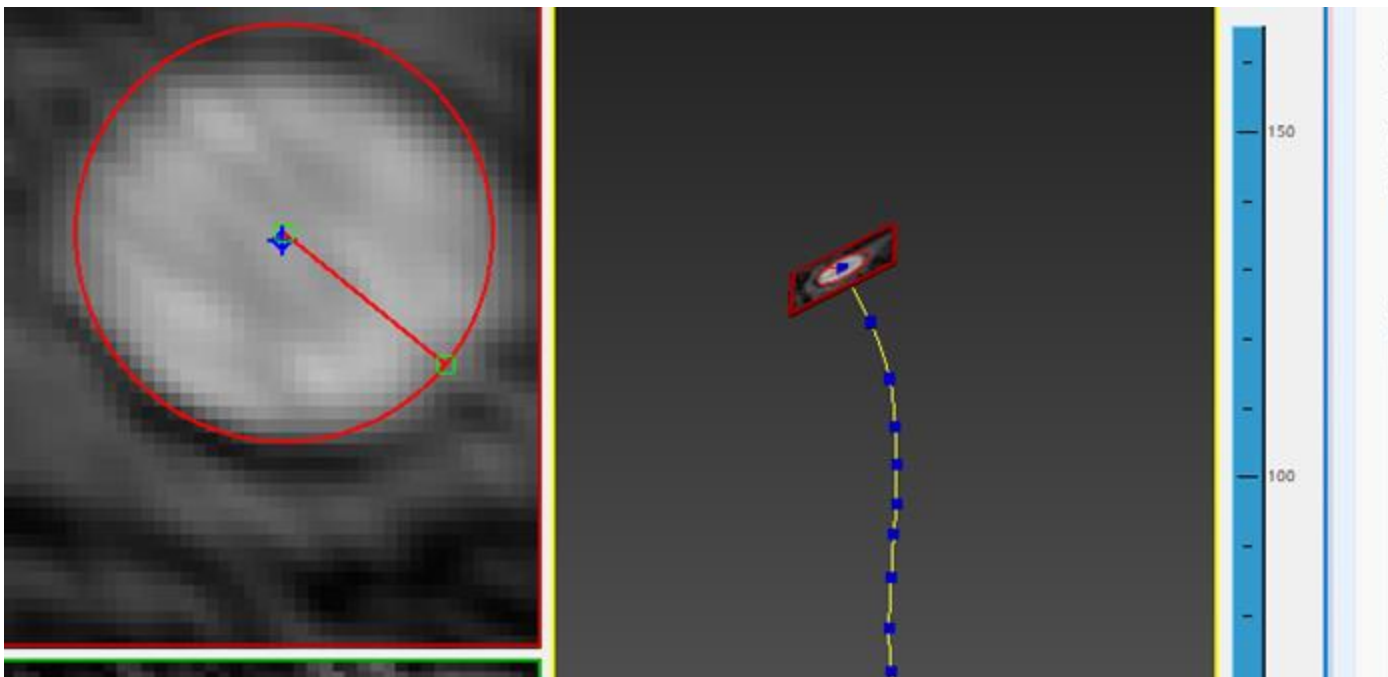


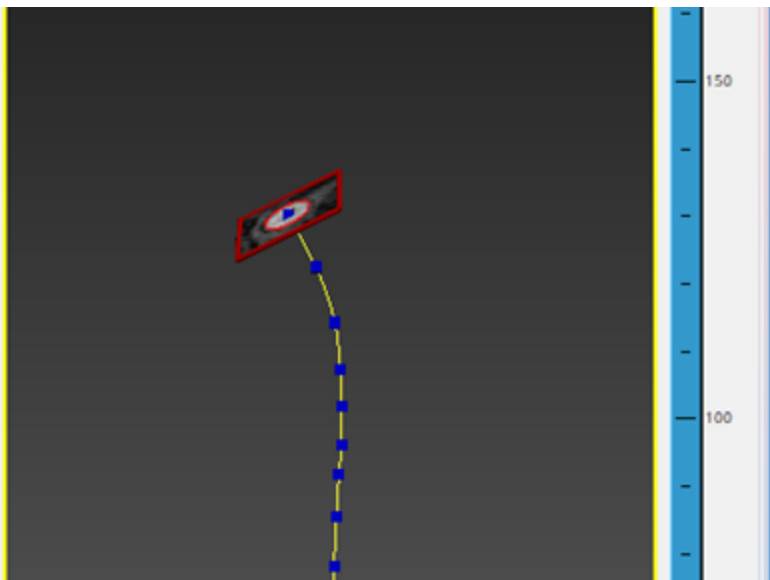
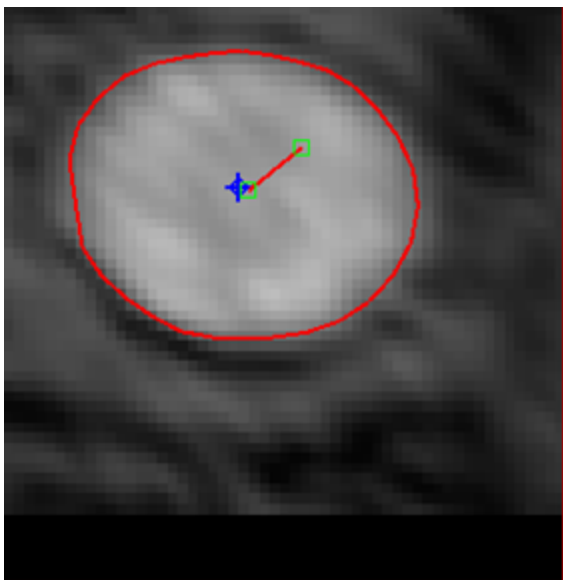


**Double click the aorta
segmentation we created**









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

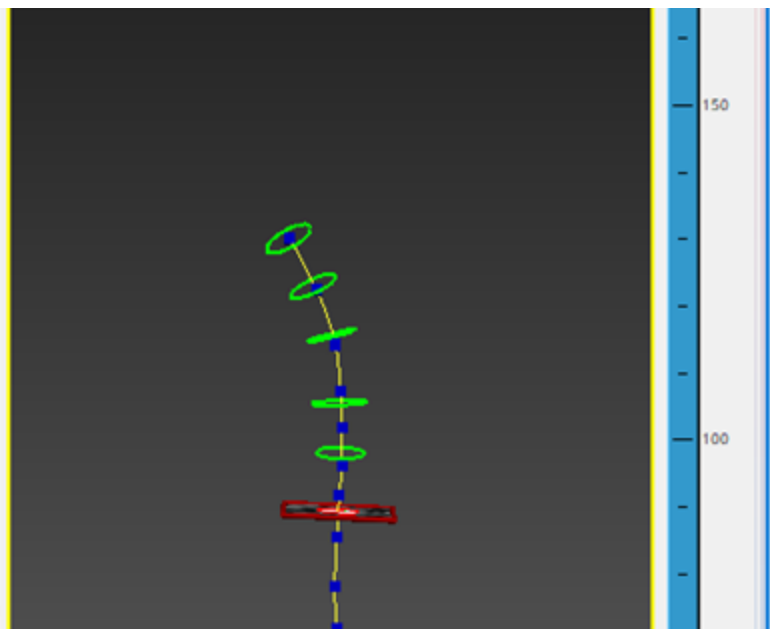
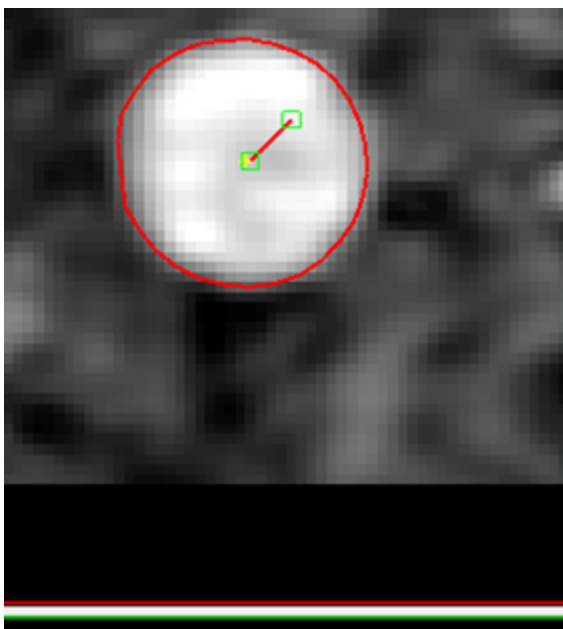
Contour List:

- 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

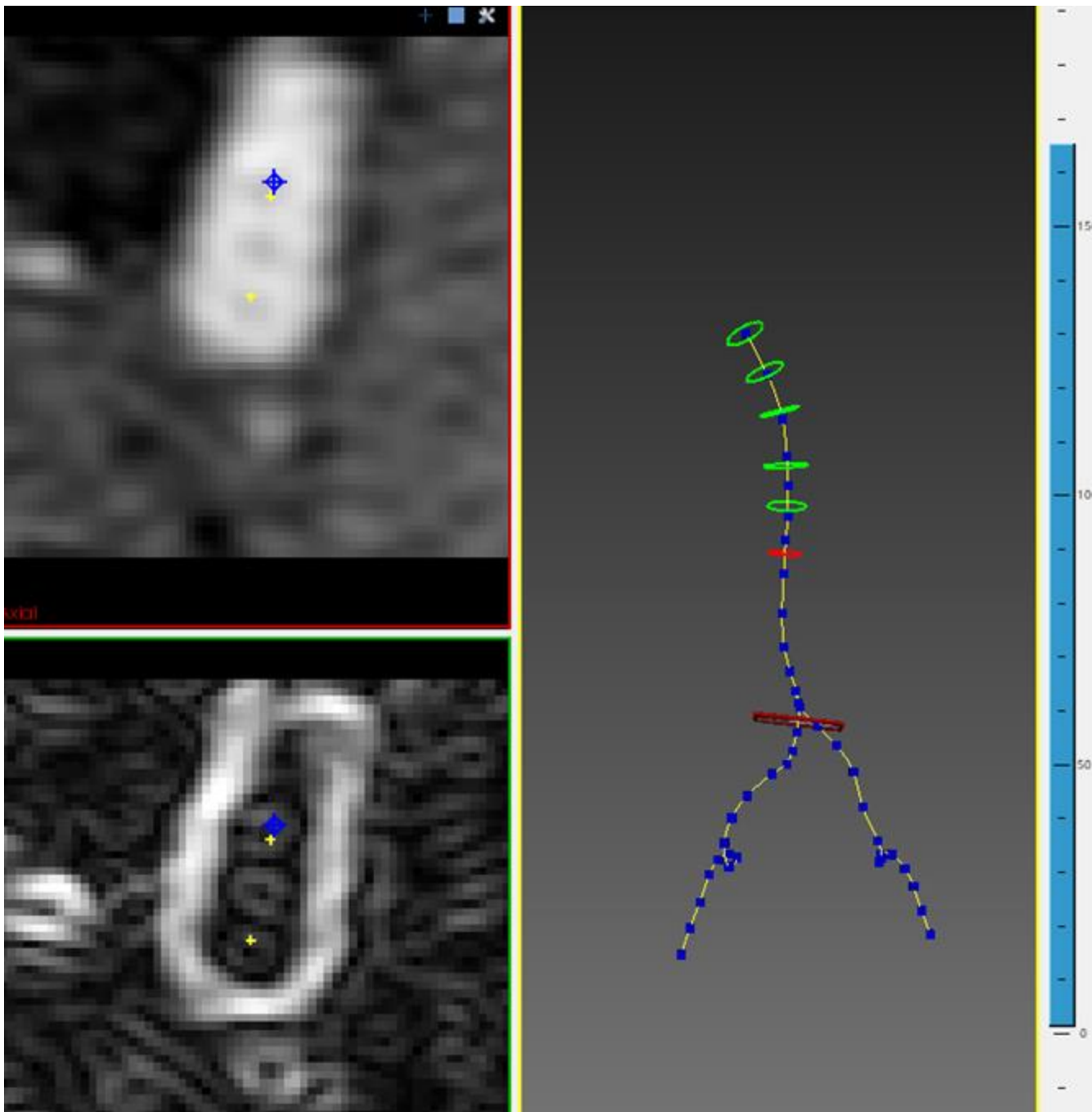
Contour List:

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

Circle

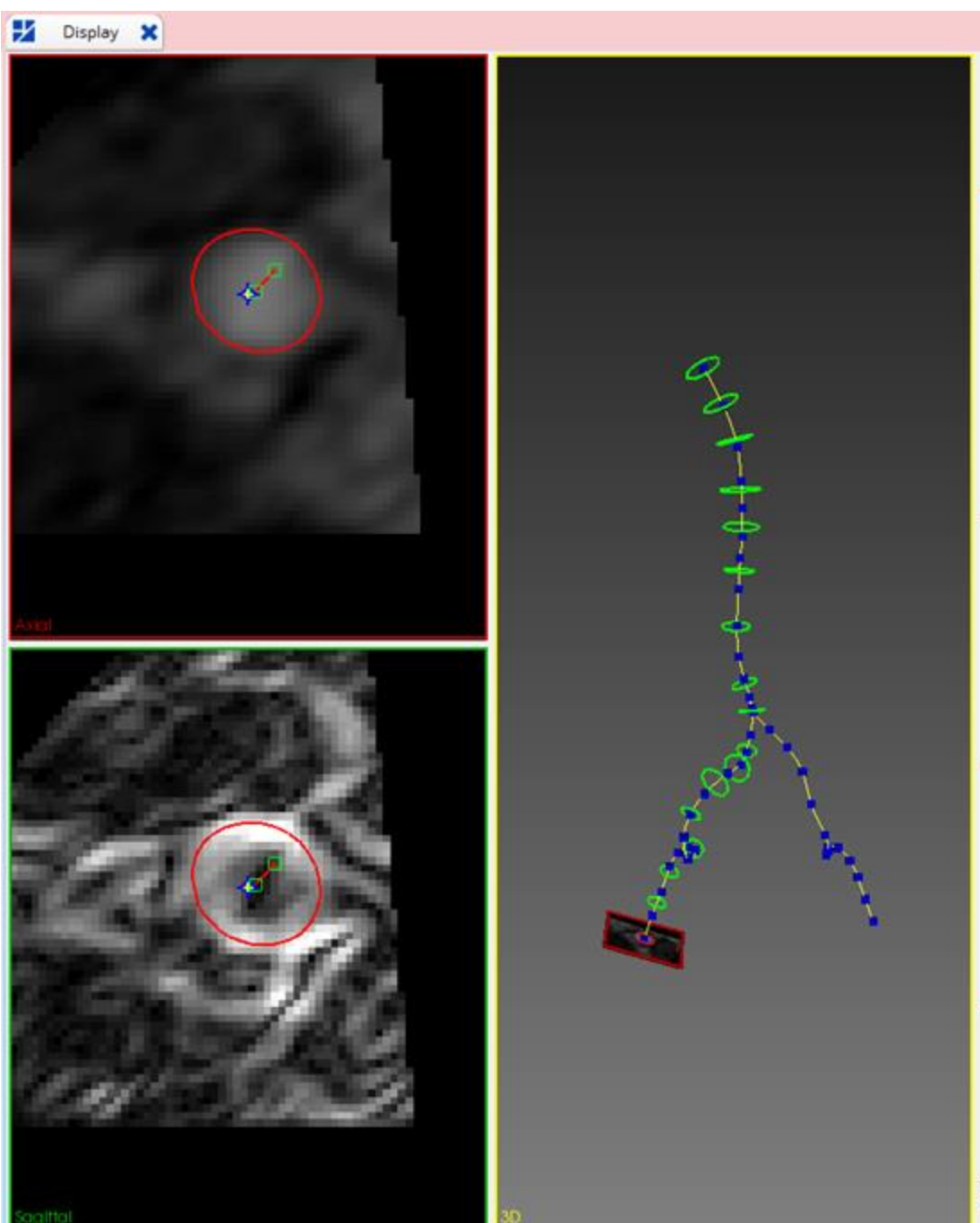
Ellipse

SplinePoly

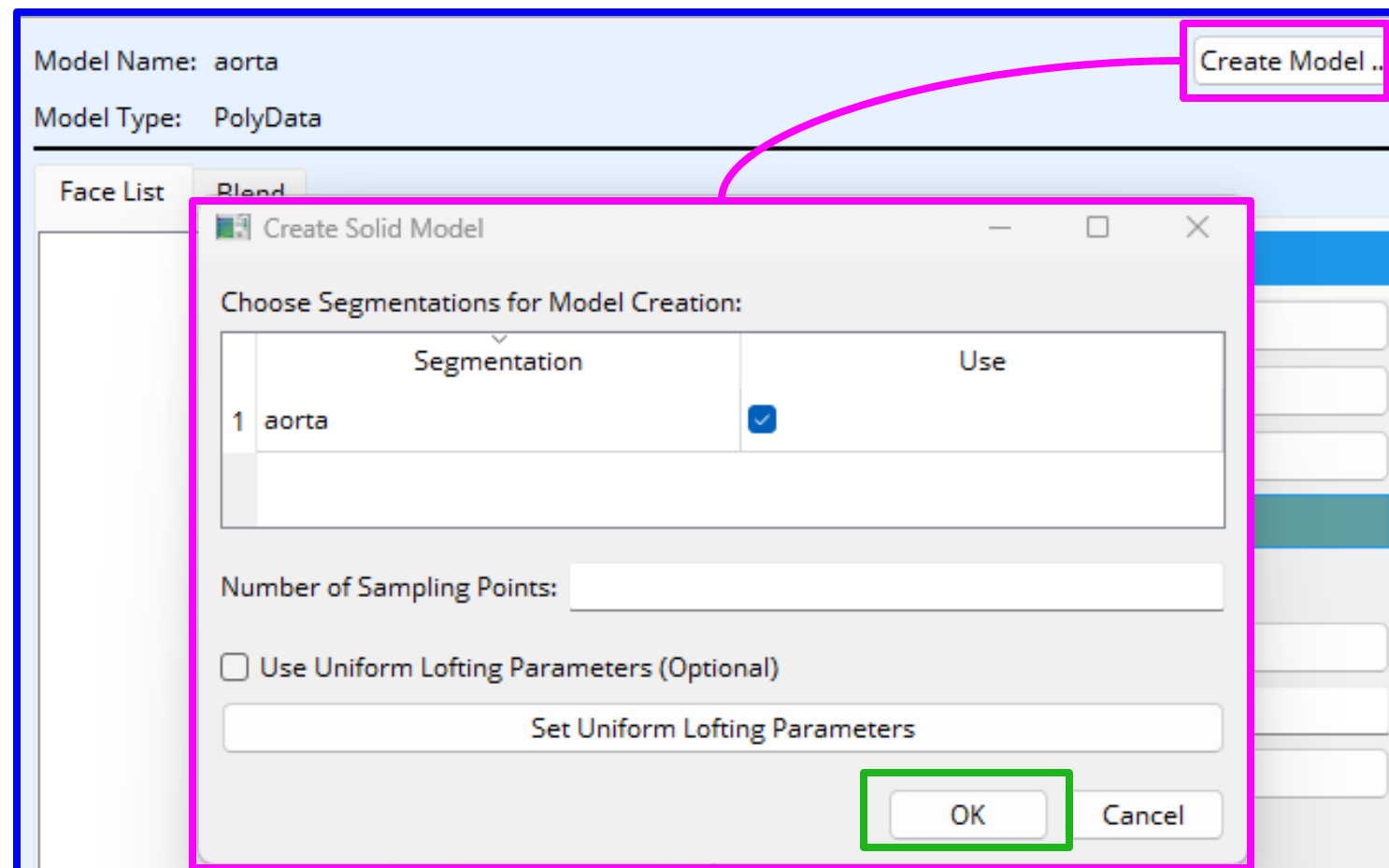
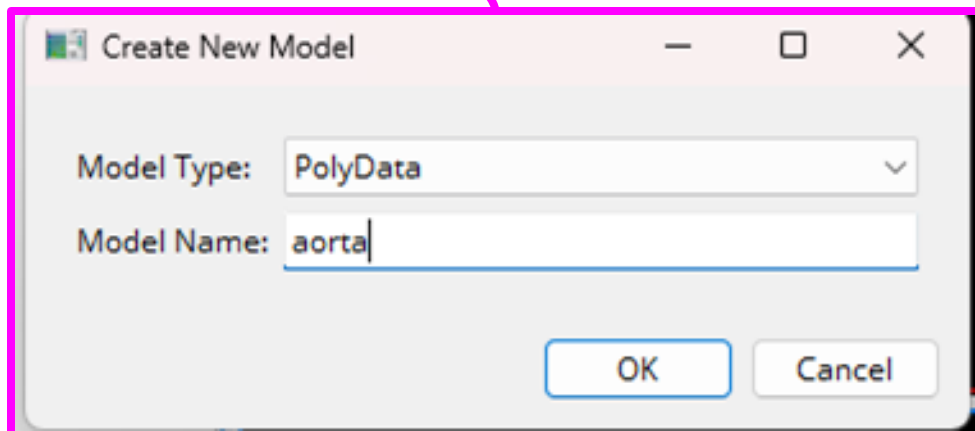
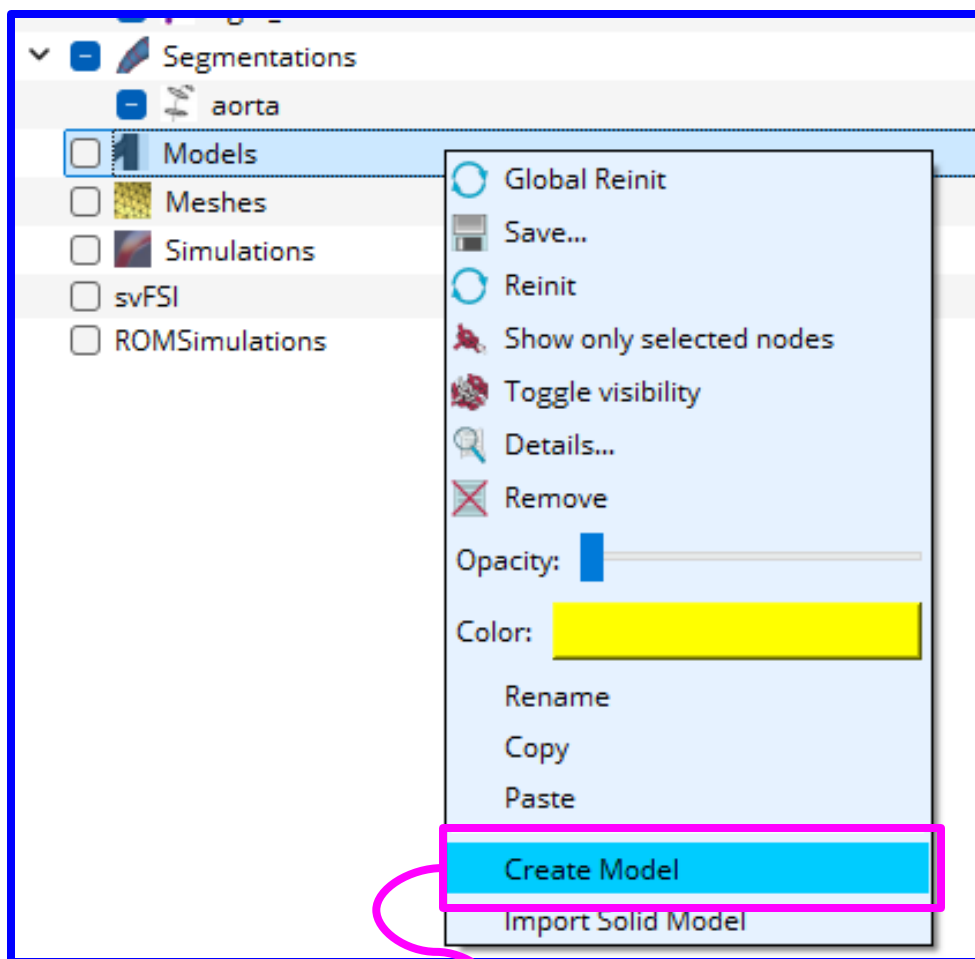


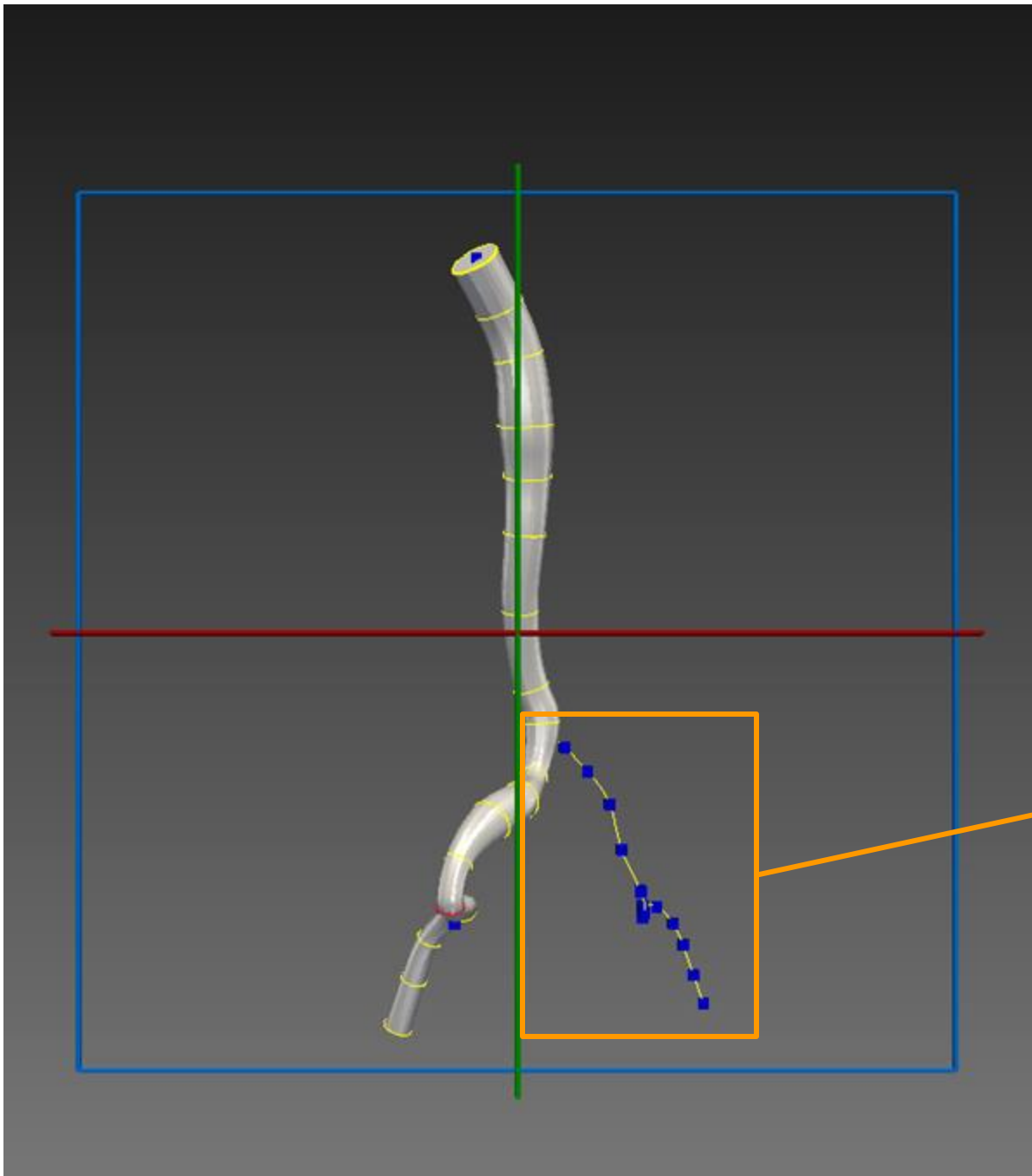
Sometimes, it is hard to tell where the blood vessels are in CT images!

Let's try to skip past them.



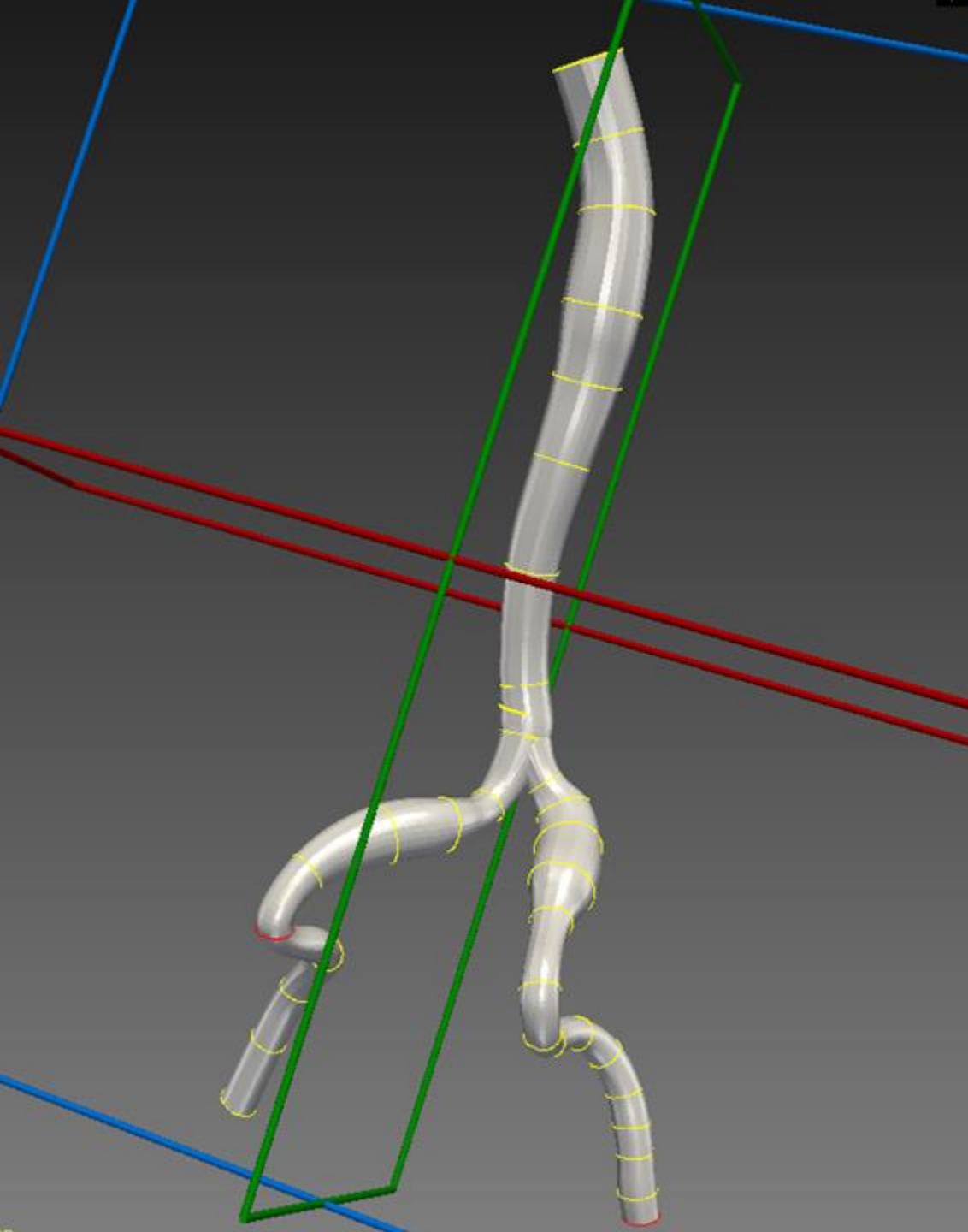
Once we have added enough segmentations, we will build our model for the aorta





We have built our first model!

Now, we need to repeat this process for the right iliac artery



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