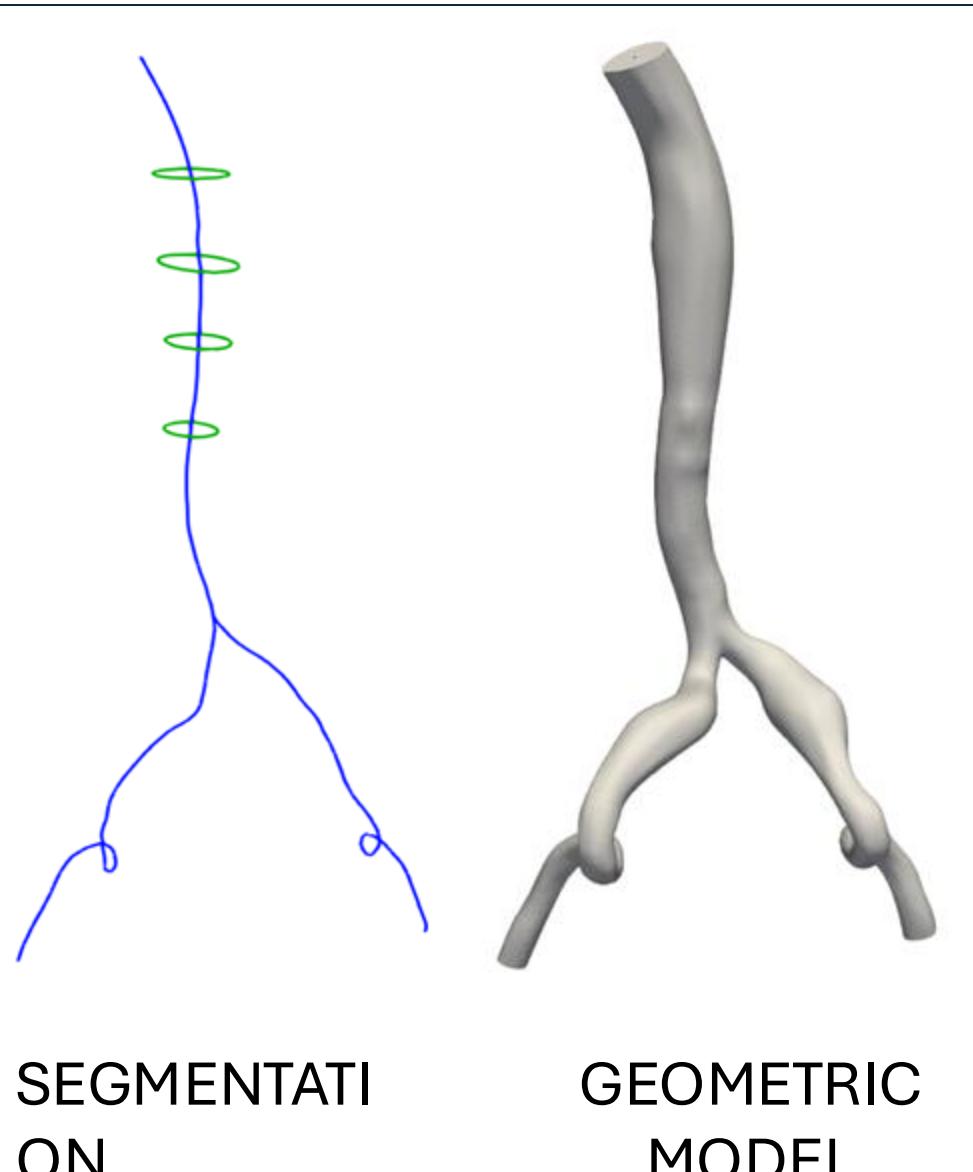


X-Ray images of  
aorta and iliac  
arteries

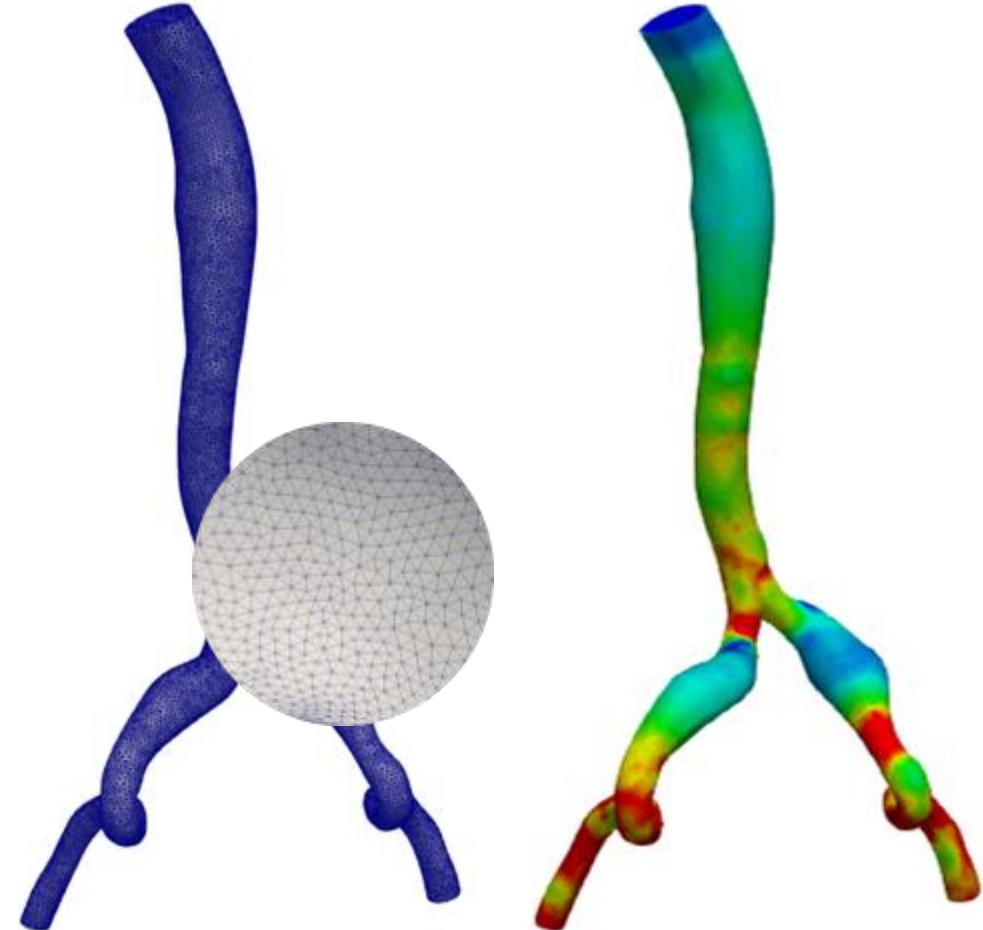


PAT  
H



SEGMENTATI  
ON

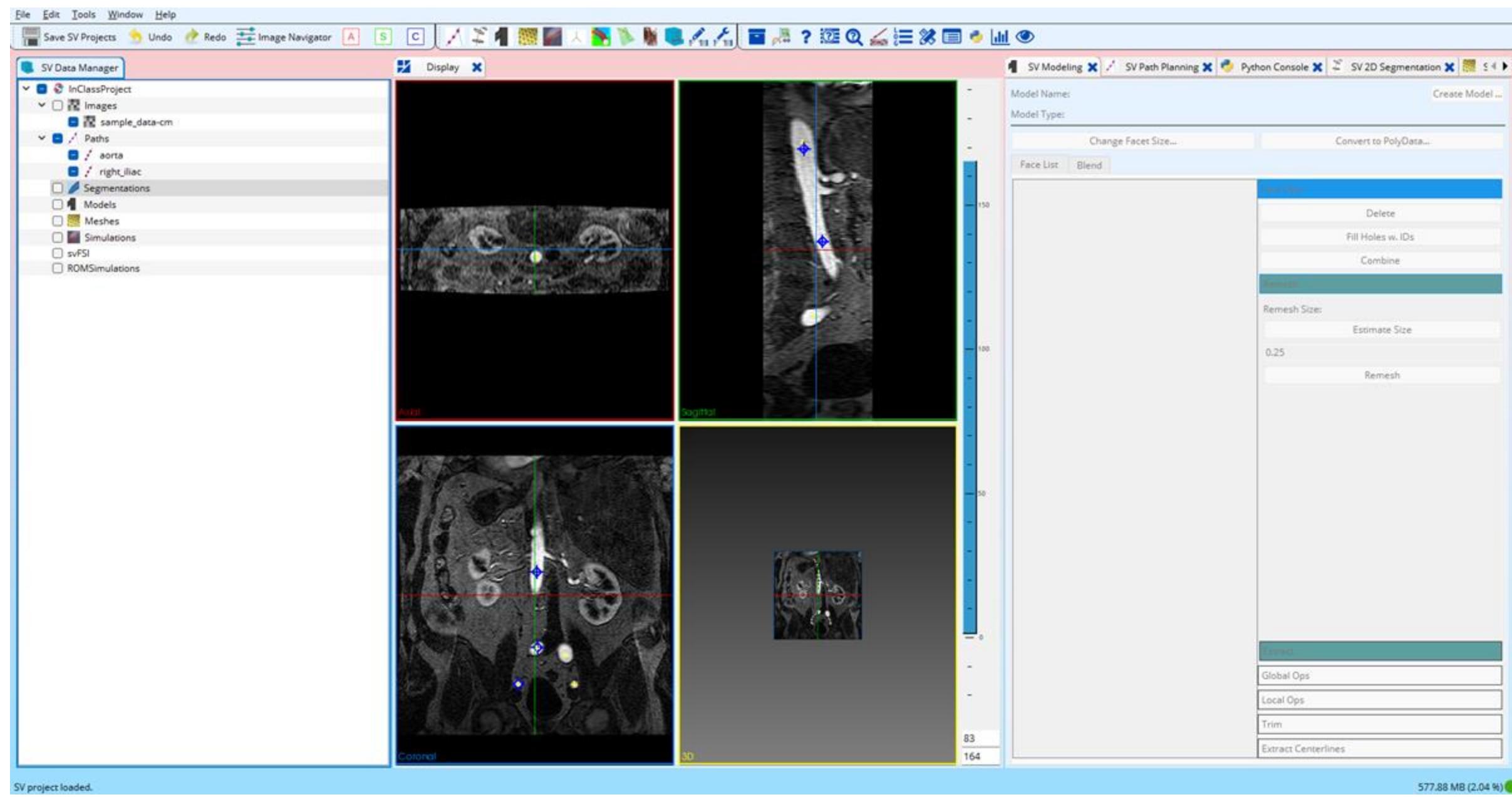
GEOMETRIC  
MODEL

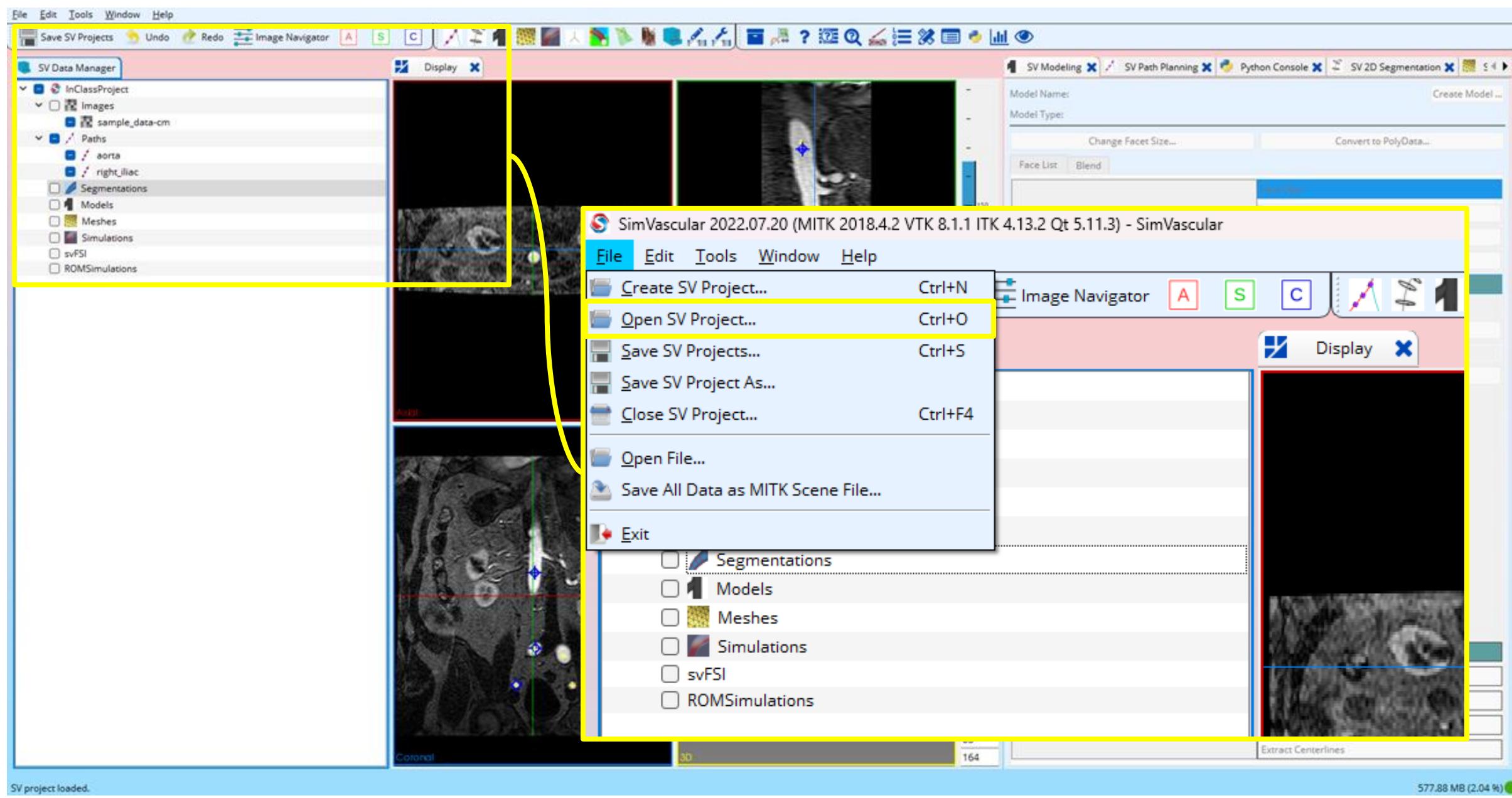


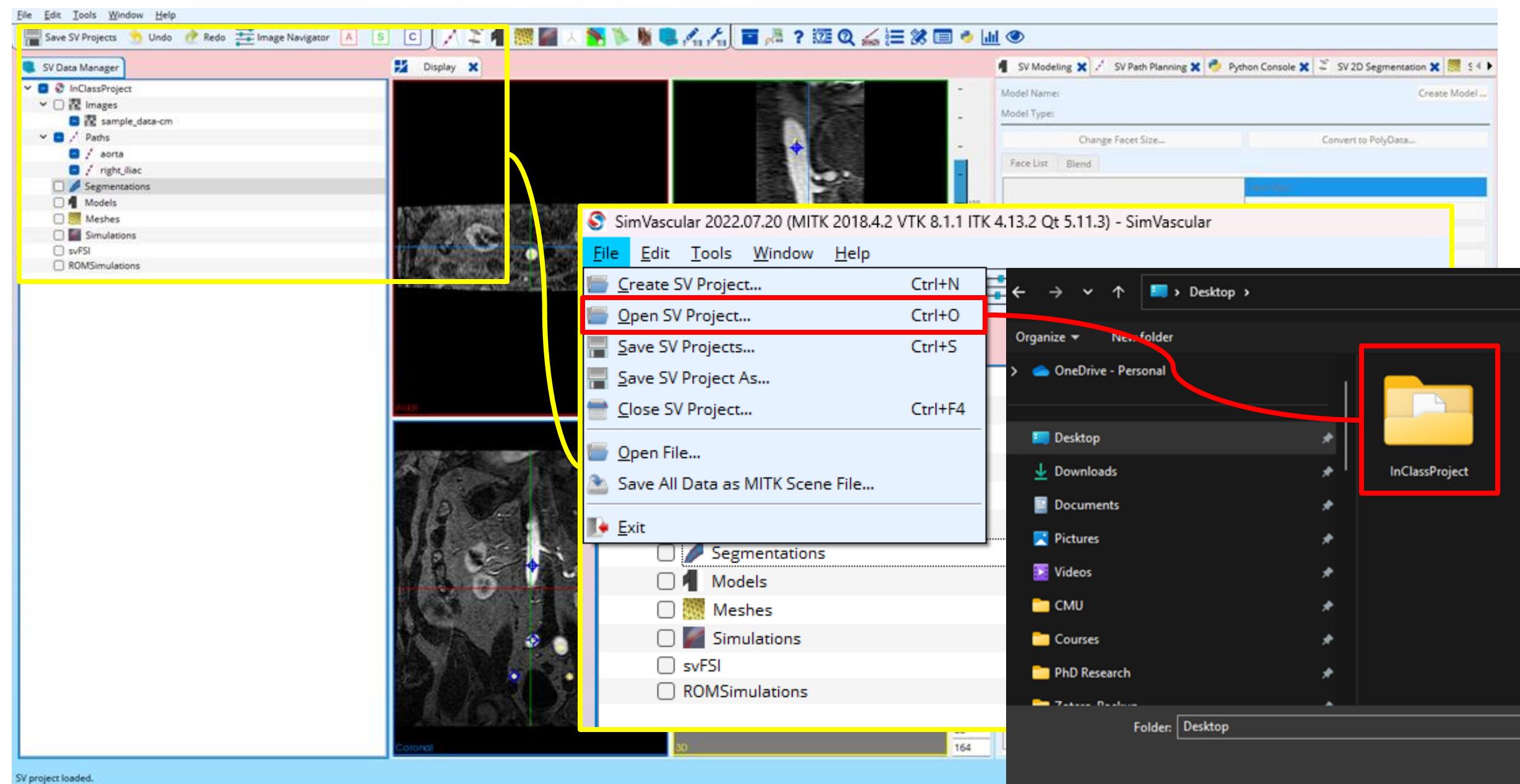
MESH

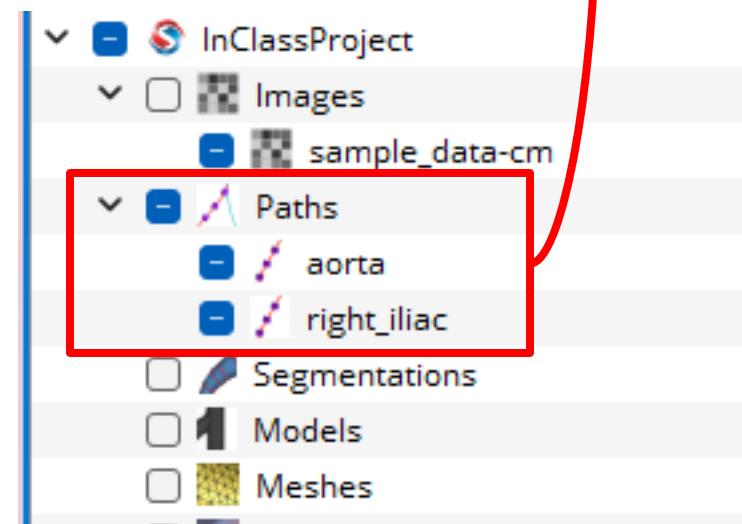
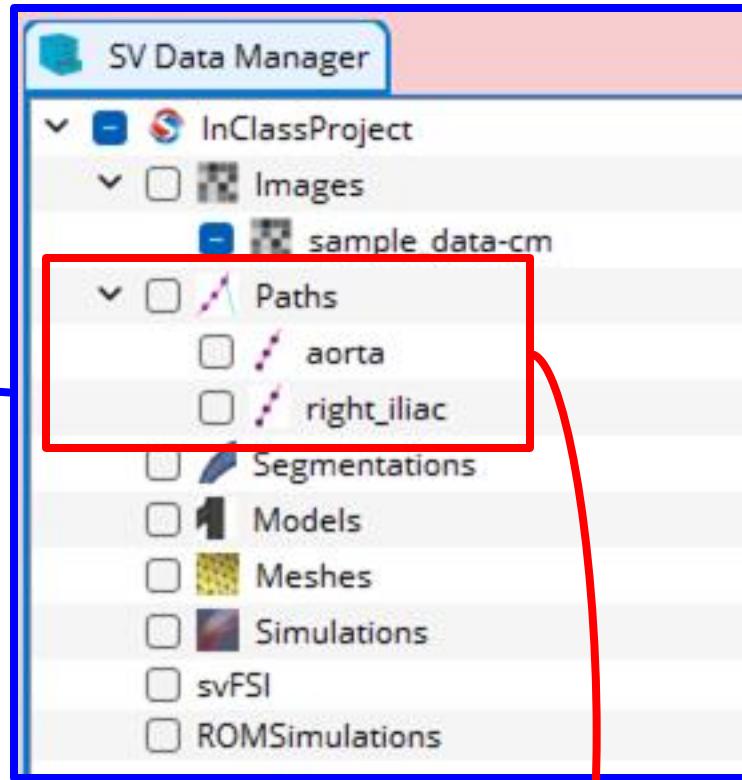
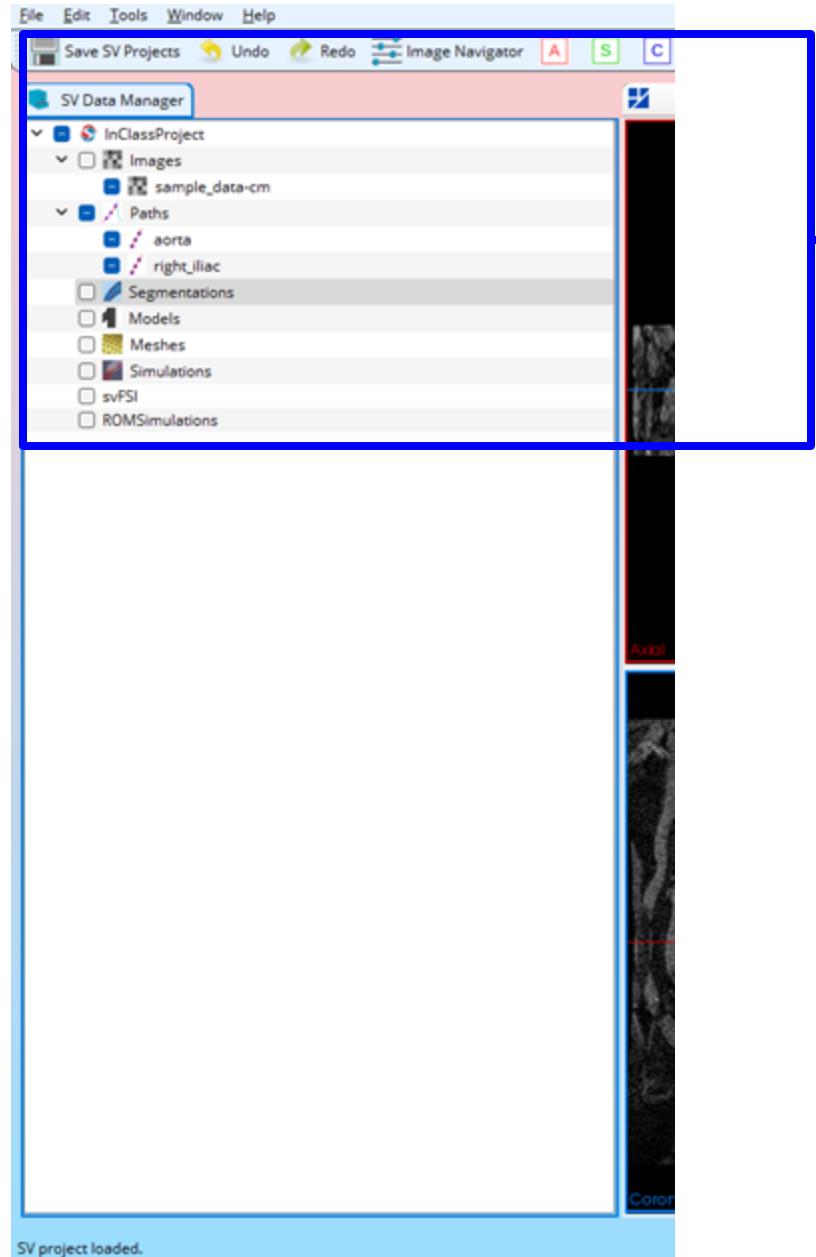
SIMULATION

We will build models of these blood vessels!

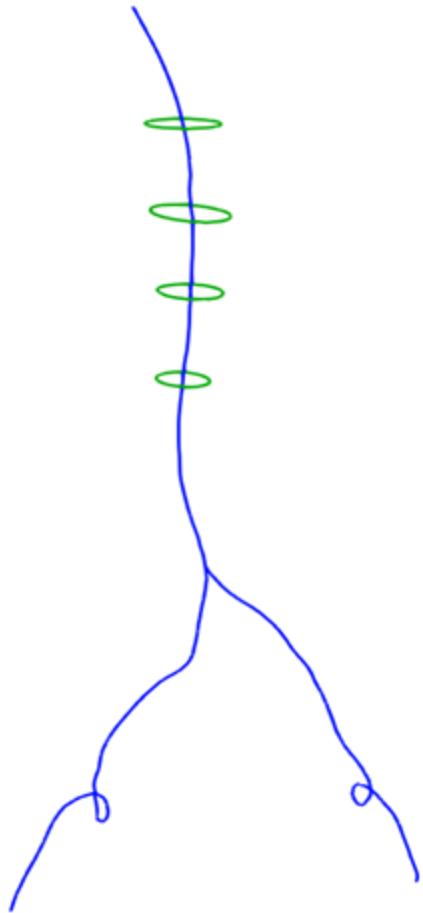
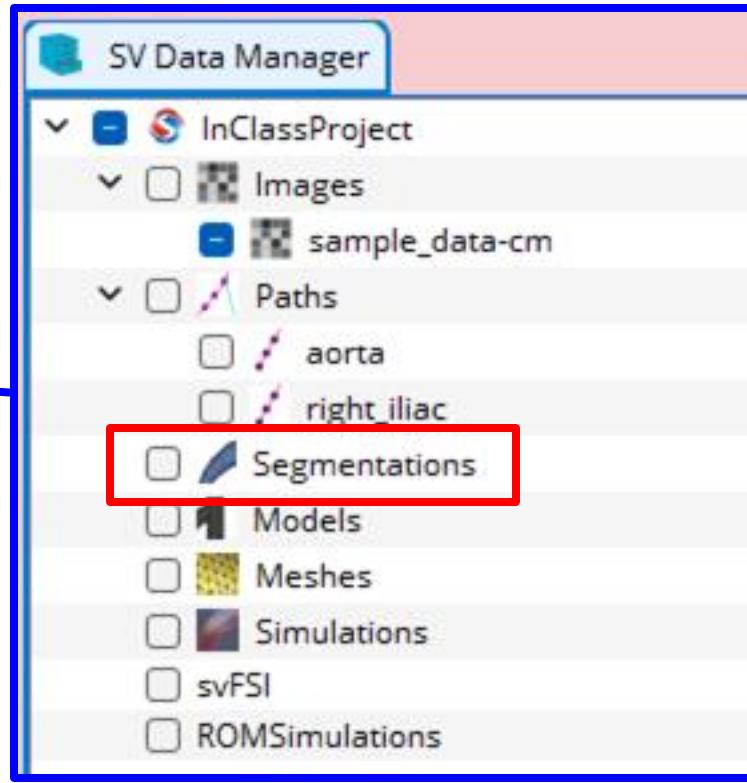
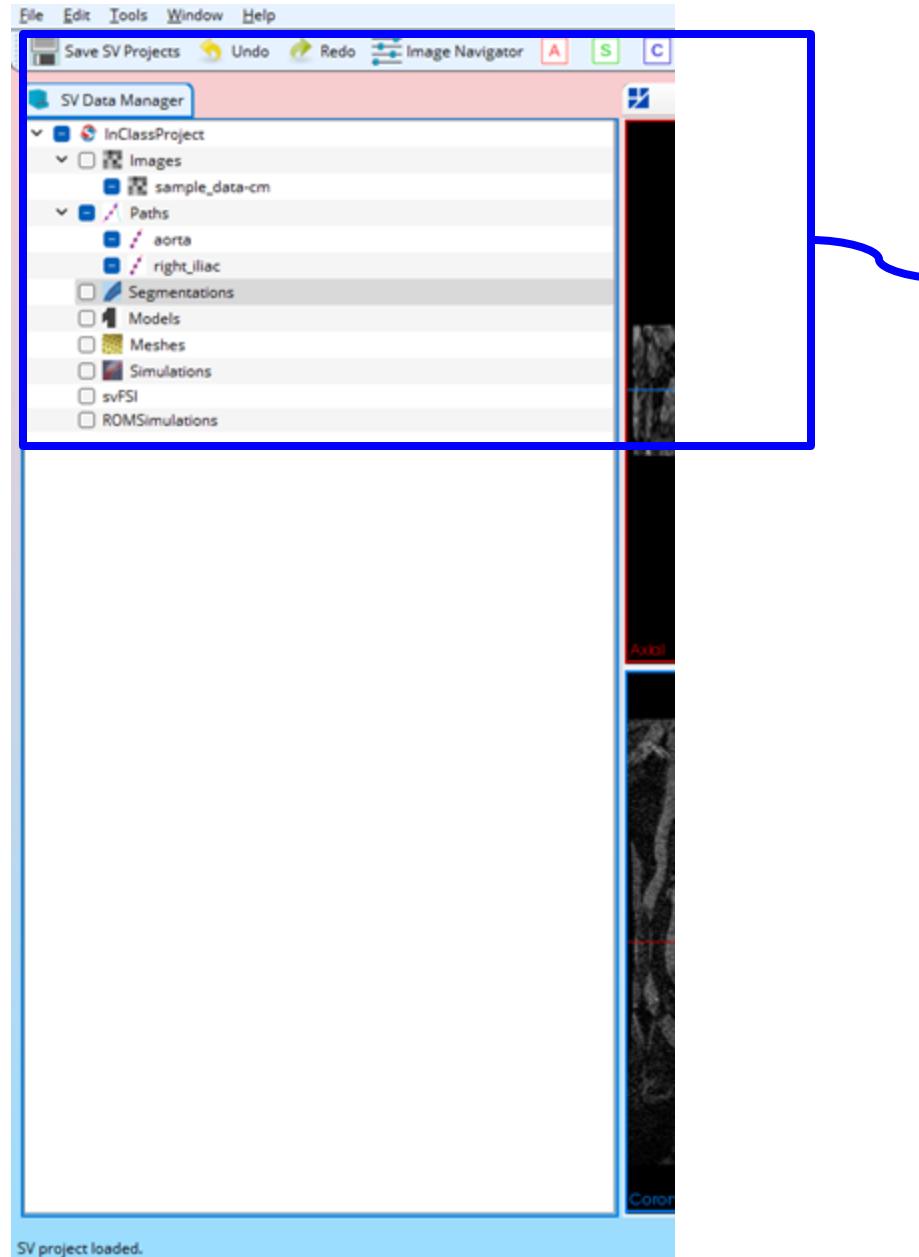








Click the empty box  
besides **Paths**



We will create  
**segmentations** of the  
aorta and right iliac

File Edit Tools Window Help

Save SV Projects Undo Redo Image Navigator A

SV Data Manager

InClassProject

- Images
- sample\_data-cm
- Paths
- aorta
- right iliac

Segmentations

- Models
- Global Reinit
- Meshes
- Save...
- Simulations
- Reinit
- svFSI
- Show only selected nodes
- ROMSimulations
- Toggle visibility
- Details...
- Remove
- Opacity: [Slider]
- Color: [Color Picker]
- Rename
- Copy
- Paste

Create Contour Group

Import Segmentations

Import Legacy Segmentations

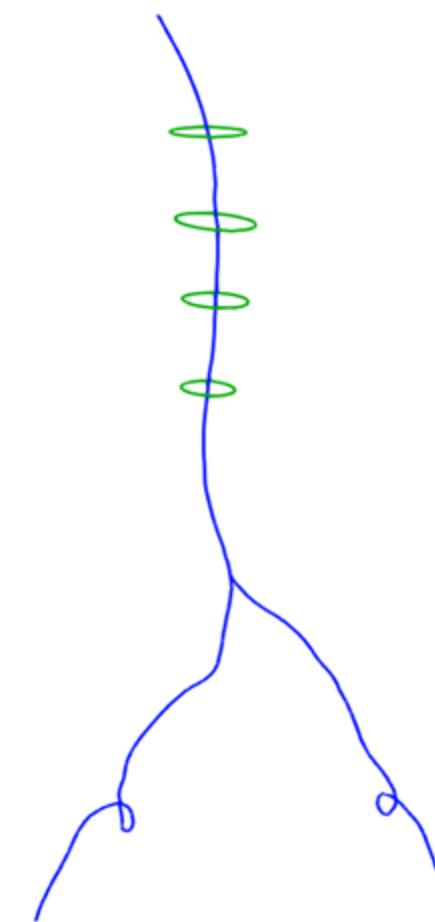
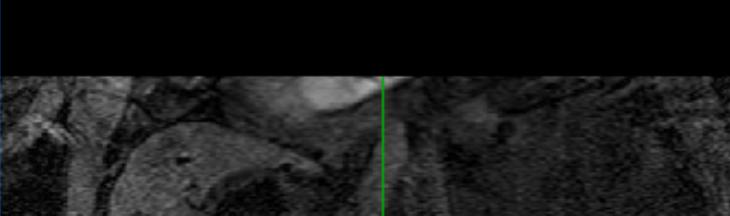
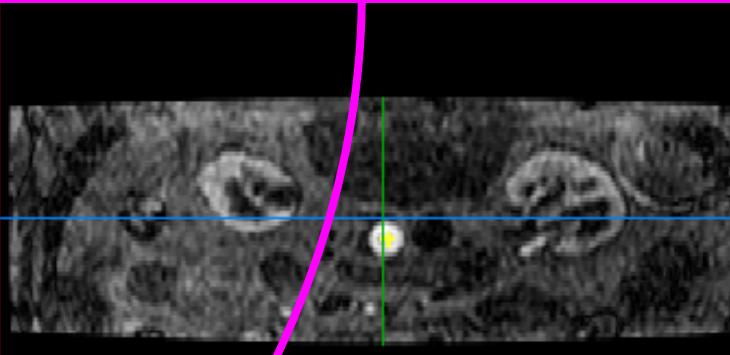
Export All as Legacy Segmentations

Create Contour Group

Select Path: aorta

Group Name: aorta  
(Using path name by default)

OK Cancel



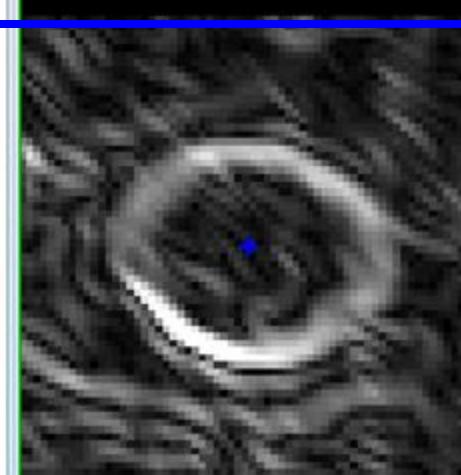
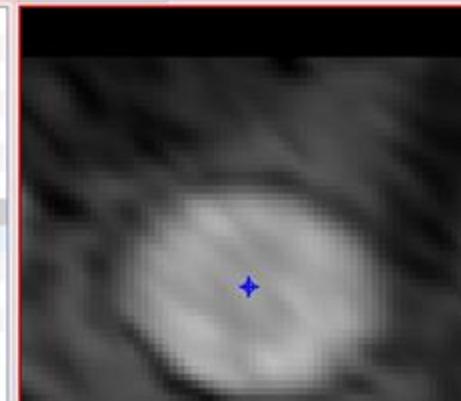
File Edit Tools Window Help

Save SV Projects Undo Redo Image Navigator

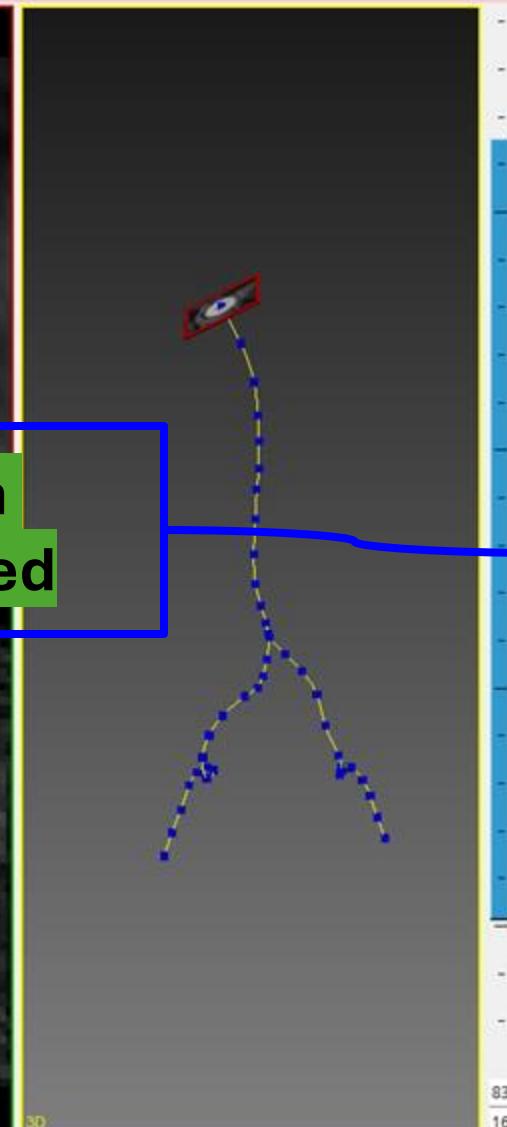
SV Data Manager

- InClassProject
  - Images
    - sample\_data-cm
  - Paths
    - aorta
    - right iliac
  - Segmentations
    - aorta
- Models
- Meshes
- Simulations
- svFSI
- ROMSimulations

Display



Sagittal



SV Modeling    SV Path Planning    Python Console    SV 2D Segmentation

Single-Path    Multi-vessel Path

Path: aorta  Show Path

Contour Group: aorta

Lofting Preview

Reslice:  Size

Contour List:

LevelSet

Mach. Learning

Circle

SplinePoly

Polygon

Smooth

Copy

Paste

Double click the aorta segmentation we created

File Edit Tools Window Help

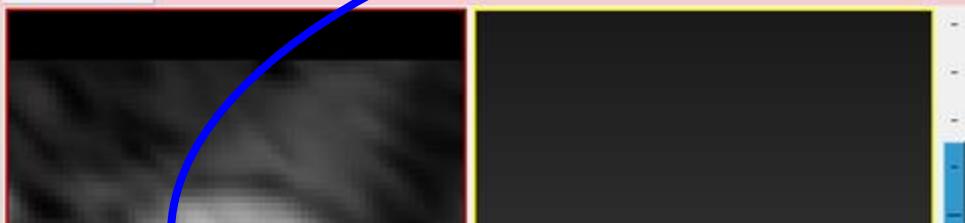
Save SV Projects Undo Redo Image Navigator A S C



## SV Data Manager

- InClassProject
  - Images
    - sample\_data-cm
  - Paths
    - aorta
    - right iliac
  - Segmentations
    - aorta

## Display

 Lofting Preview

Lofting Parameters...

Reslice:

205

Size

LevelSet

Threshold

Mach. Learning

Circle

Ellipse

SplinePoly

Polygon

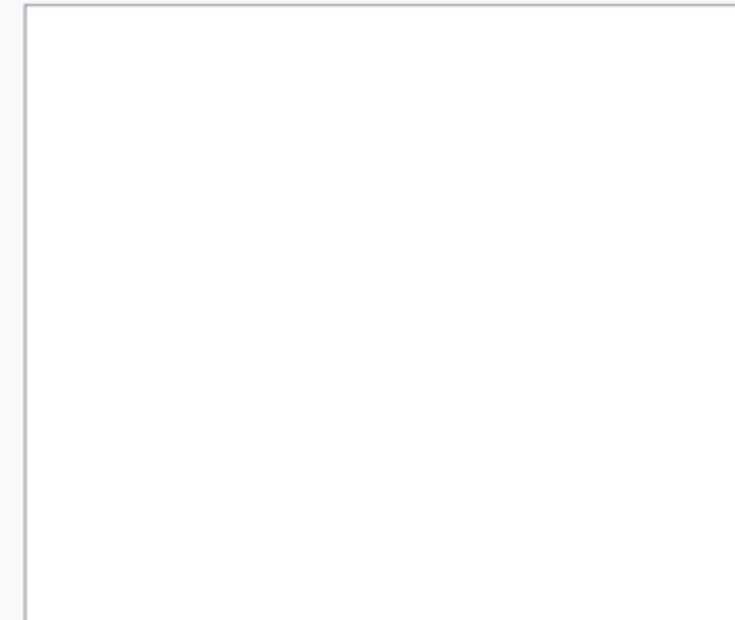
Smooth

Copy

Paste

Delete

## Contour List:



Sagittal

3D

## SV Modeling

## SV Path Planning

## Python Console

## SV 2D Segmentation

Single-Path Multi-vessel Path

Path: aorta

 Show Path

Contour Group: aorta

New Group

 Lofting Preview

Lofting Parameters...

Reslice:

0

Size

Contour List:

LevelSet

Threshold

Mach. Learning

Circle

Ellipse

SplinePoly

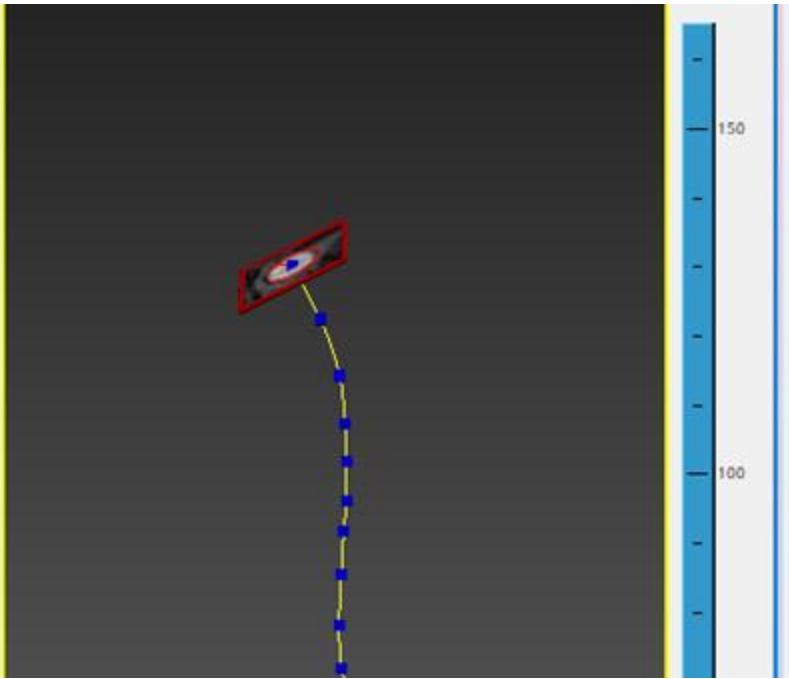
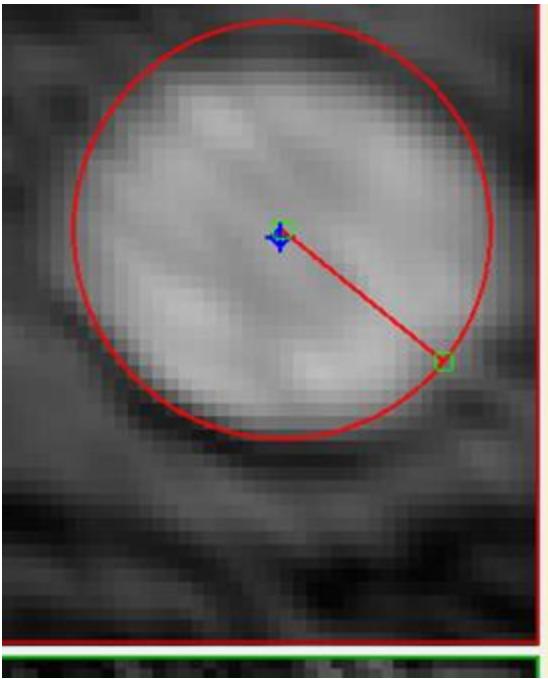
Polygon

Smooth

Copy

Paste

Delete



Contour Group: aorta

Lofting Preview

Reslice:

New Group

Lofting Parameters...

0  Size

LevelSet

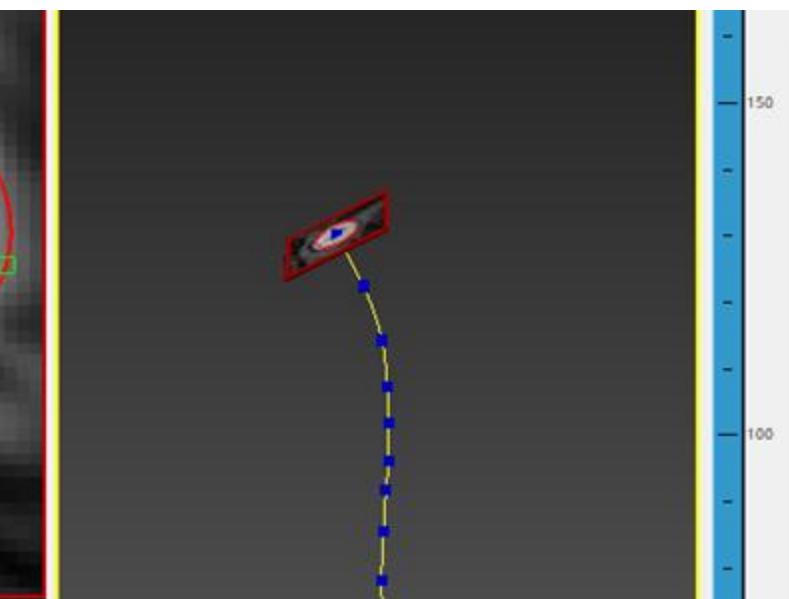
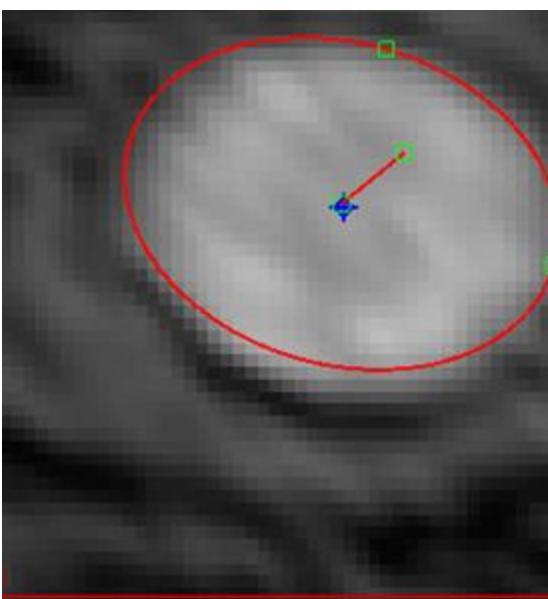
Threshold

Mach. Learning

Circle

Ellipse

SplinePoly



Contour Group: aorta

Lofting Preview

Reslice:

New Group

Lofting Parameters...

0  Size

LevelSet

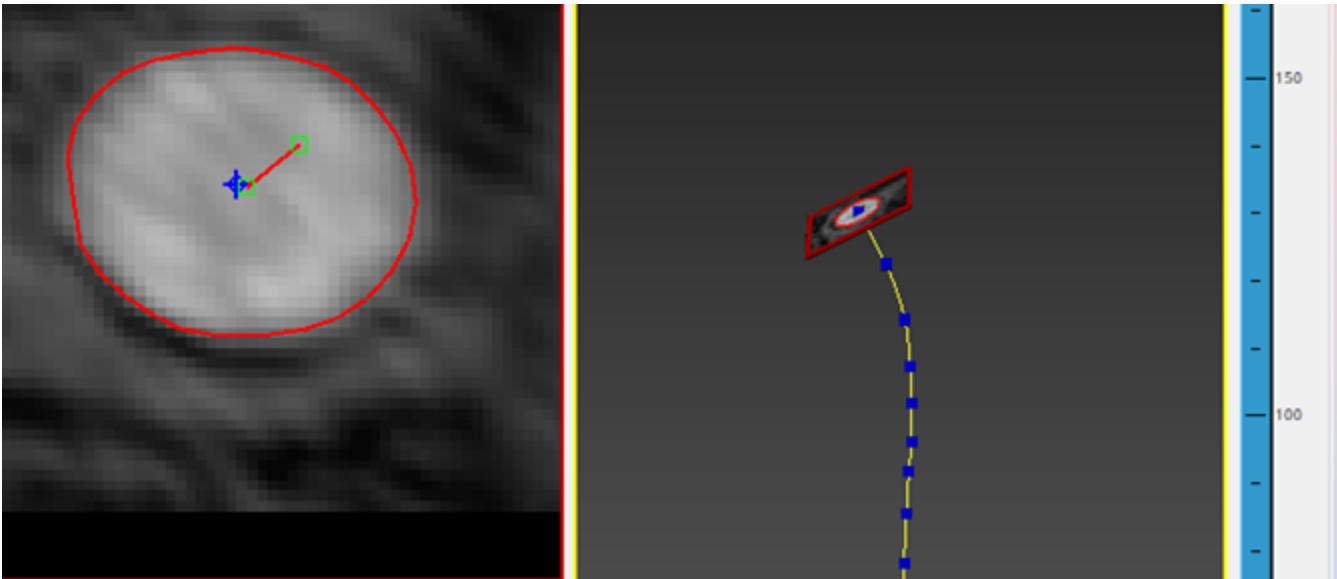
Threshold

Mach. Learning

Circle

Ellipse

SplinePoly



Contour Group: aorta

Lofting Preview Lofting Parameters...

Reslice:  Size

Smooth Fourier Number:  LevelSet

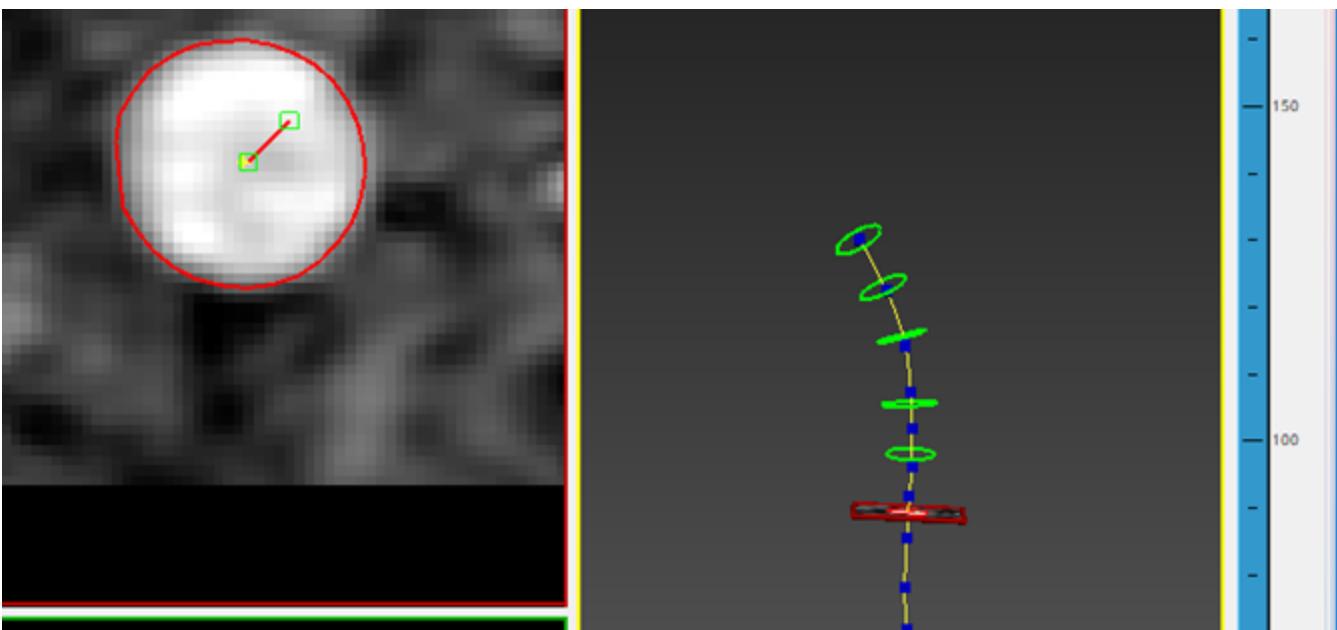
Convert to Spline Ctrl No.:  Threshold

Batch Mode List:

Contour List:

- 0: Contour, ML

Circle  
Ellipse  
SplinePoly



Contour Group: aorta

Lofting Preview Lofting Parameters...

Reslice:  Size

Smooth Fourier Number:  LevelSet

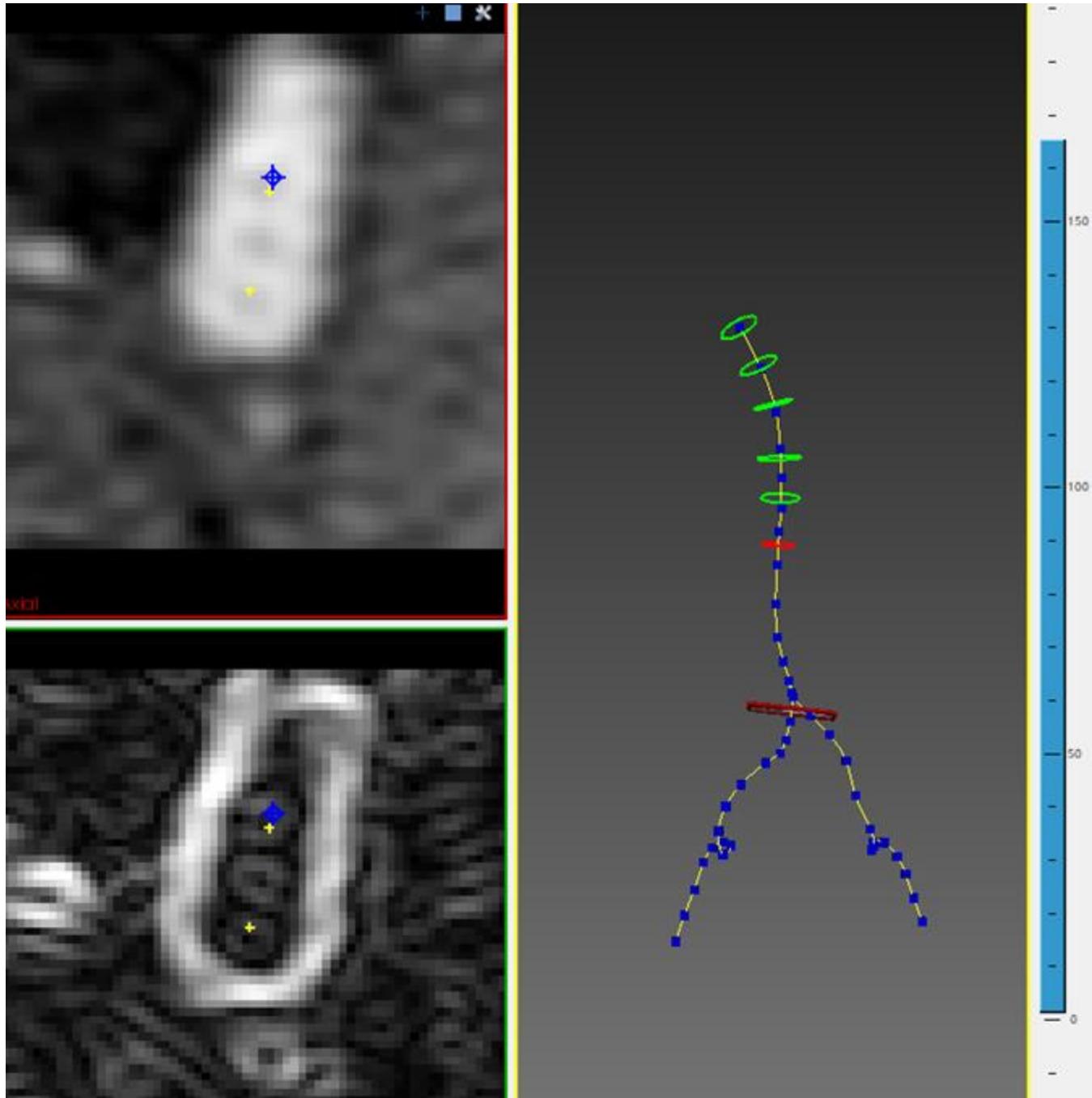
Convert to Spline Ctrl No.:  Threshold

Batch Mode List:

Contour List:

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

Circle  
Ellipse  
SplinePoly



Display X

