**Requirements**

1. Install the following dependencies after creating your environment in python 3.6:
   1. Scipy
   2. Numpy
   3. Matplotlib
   4. Pandas
   5. scikit-learn
   6. scikit-image
   7. tensorflow
   8. keras
   9. opencv
   10. ﻿pylab
   11. ﻿Tqdm
   12. ﻿Gc

These dependencies will be enough to run the code I will send you, however you may need to install some other libraries as well. Just let me know if that is the case.

1. Open your environment in anaconda once you installed all necessary libraries in your env. And open spyder. Then open the code file I sent you.
2. Make your directory for a specific address for this task. Like (“﻿/Users/michael/Desktop/endoscopy/remove\_redundant”)
3. Then make a folder in this directory called saved. Because you will need this for the pretrained model I also sent you. The model called “﻿CNN\_network\_128x128\_positive\_samples” so that put this file into the “saved” folder.
4. And finally go to line 122 in the script and change here the video file names you will remove the background. But you also need to show the folder here specifically.
5. The filename that will be output of the new video is done in line 150 in the code. Go there any change in what you want to type.
6. And then just run the code. You can press F5.

Let me know if you have any problem and need any assistance.