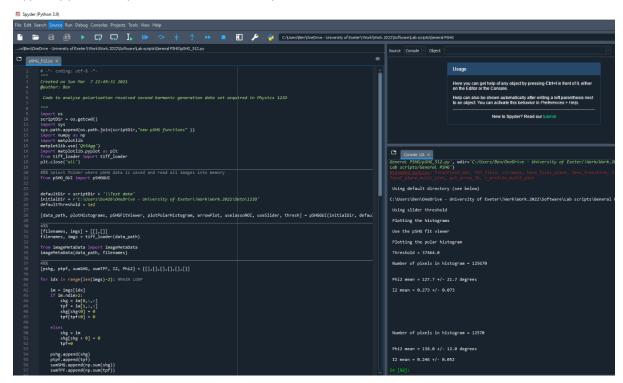
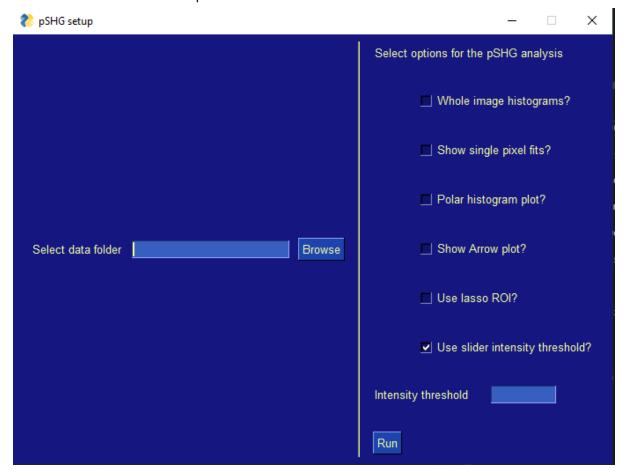
- 1. Download and install python using <a href="https://www.anaconda.com/">https://www.anaconda.com/</a>
- 2. Open anaconda terminal by pressing windows key and typing in "anaconda"

- 3. Type "pip install natsort" (and press 'y' if prompted about whether any changes are ok)
- 4. Type "pip install scanimage-tiff-reader" (and press 'y' if prompted about whether any changes are ok)
- 5. Type "pip install pysimplegui" (and press 'y' if prompted about whether any changes are ok)
- 6. Type "spyder" to open MATLAB like development environment



7. Open the pSHG\_512.py script and press the green arrow to run it

8. A GUI should appear that allows you select the folder where the data to be analysed is saved, along with the type of analysis you would like to see. Note that if no folder is selected, a default folder is used called "Test data" that is in the same folder as this analysis code. The test data contains a pSHG data set of some rat tail tendon.



- 9. Note that if you select the "Show single pixel fits" option, a window will appear that you must click in 6 times before the code will continue. The raw data and the pSHG 'fit' at each location that in the image that you click on will be shown in one of the saved figures.
- 10. Figures and processed data are saved in the raw data folder

re - University of Exeter > !Work > Work.2022 > Softwa	re > Lab scripts	→ General PSHG → Test da	ta	∨ Շ	
Name	Status	Date	Туре	Size T	ags
fit results	<b>⊘</b> 8	20/06/2022 16:08	File folder		
Iasso ROI results	<u>•</u> 8	15/06/2022 09:28	File folder		
it viewer.png	<b>②</b> A	14/06/2022 17:08	PNG File	114 KB	
MWPandQWP ZF030 PBF20 RTT_00001.tif	<b>⊘</b> A	14/01/2022 09:45	TIF File	1,036 KB	
MVPandQWP ZF030 PBF20 RTT_00002.tif	<b>②</b> A	14/01/2022 09:45	TIF File	1,036 KB	
MWPandQWP ZF030 PBF20 RTT_00003.tif	<b>②</b> A	14/01/2022 09:45	TIF File	1,036 KB	
MVPandQWP ZF030 PBF20 RTT_00004.tif	<b>②</b> A	14/01/2022 09:45	TIF File	1,036 KB	
MVPandQWP ZF030 PBF20 RTT_00005.tif	<b>②</b> A	14/01/2022 09:45	TIF File	1,036 KB	
MWPandQWP ZF030 PBF20 RTT_00006.tif	<b>②</b> A	14/01/2022 09:45	TIF File	1,036 KB	
MWPandQWP ZF030 PBF20 RTT_00007.tif	<b>②</b> A	14/01/2022 09:45	TIF File	1,036 KB	
MVPandQWP ZF030 PBF20 RTT_00008.tif	<b>②</b> A	14/01/2022 09:45	TIF File	1,036 KB	
MVPandQWP ZF030 PBF20 RTT_00009.tif	<b>②</b> A	14/01/2022 09:45	TIF File	1,036 KB	
M HWPandQWP ZF030 PBF20 RTT_00010.tif	<b>②</b> A	14/01/2022 09:45	TIF File	1,036 KB	
M HWPandQWP ZF030 PBF20 RTT_00011.tif	<b>②</b> A	14/01/2022 09:45	TIF File	1,036 KB	
MWPandQWP ZF030 PBF20 RTT_00012.tif	<b>⊘</b> Զ	14/01/2022 09:45	TIF File	1,036 KB	
MVPandQWP ZF030 PBF20 RTT_00013.tif	<b>⊘</b> Զ	14/01/2022 09:45	TIF File	1,036 KB	
M HWPandQWP ZF030 PBF20 RTT_00014.tif	<b>②</b> A	14/01/2022 09:45	TIF File	1,036 KB	
🔁 I2 as fn of intensity threshold in RTT test data.xlsx	<b>②</b> A	24/06/2022 21:08	Microsoft Excel W	16 KB	
🔳 12 histogram.png	<b>②</b> A	10/02/2022 11:35	PNG File	30 KB	
📧 I2 histogramData.xlsx	<b>②</b> A	11/07/2022 11:44	Microsoft Excel W	1,894 KB	
Image meta data.txt	<b>②</b> A	11/07/2022 11:43	Text Document	1 KB	
Phi2 histogram.png	<b>②</b> A	10/02/2022 11:35	PNG File	32 KB	
Phi2 histogramData.xlsx	<b>②</b> A	11/07/2022 11:44	Microsoft Excel W	1,886 KB	
Phi2 polar plot.png	<b>o</b> a	14/06/2022 23:02	PNG File	88 KB	
pSHG Arrows.png	<b>②</b> A	14/06/2022 17:10	PNG File	556 KB	
pSHG multipanel.png	<b>②</b> A	14/06/2022 22:34	PNG File	298 KB	