Project 1: Hybrid Images

Artifact images

I used the following images to create hybrid image, shown in Fig.1.

Fig.1 Low Pass Image (left), High Pass Image (middle), and Hybrid Image (right)

Parameters

My low pass filter and high pass filter have the following parameters:

	Low pass filter	High pass filter
Kernel Size	7.0	4.8
Kerner Sigma	13	11
Mix-in Ratio	0.65 (0=left, 1=right)	

Parameters Insights

Left

Applied low-pass filter

Removes higher frequency components from the image

Only lower-frequencies are used

Right

Applied high-pass filter

Removes lower frequency components from the image

Only higher-frequencies are used

Hybrid

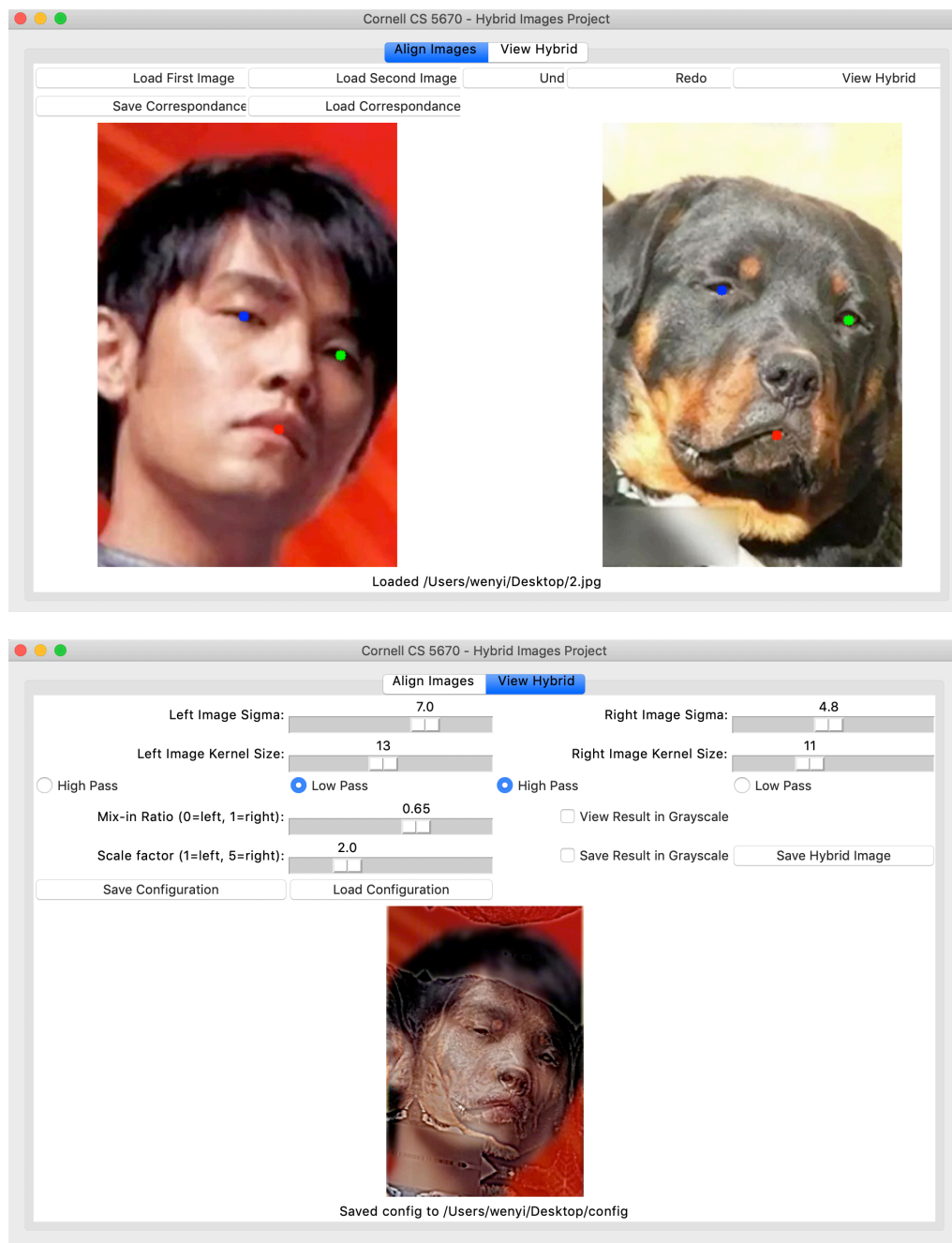=   lower-frequencies from the first image

+   higher-frequencies from the second image

Appendix:

Fig.2 Screenshots of the GUI interface