Important hyper parameters from the article:

--learned_laplacian
Use the learned Laplacian kernel as described in 3.2.3

--learned_shapes
Use the leaned Shapes kernel as described in 3.2.3

--laplacian
The L hyperparameter from the loss function in 3.2.3

--shapes
The S hyperparameter from the loss function in 3.2.3

--alpha
The bandwidth parameter for the GCN kernel

--laplacian_alpha
The bandwidth parameter for the Laplacian kernel

--shapes_alpha
The bandwidth parameter for the Shapes kernel

--num_learned_kernel
Number of Learned GCN kernels

--num_replacing_kernel
Number of replacing GCN kernels

--num_constant_kernel
Number of constant GCN kernels

--change_alpha
Find the best bandwidth parameter for the GCN kernel every x iteration as described in 3.1.4.2

--learned_alpha
Learn the bandwidth parameter for the GCN kernel as described in 3.1.4.3

--alpha_range --alpha_mul
Use multiple bandwidth parameters for the GCN kernel as described in 3.1.3.4
For example, if alpha_range=2, alpha_mul=3 then we'll use:
Alphas=[$\frac{alpha}{3^2}$,$\frac{alpha}{3}$,alpha,$alpha * 3, alpha * 3^2$]
The size of alphas is 1+range*2