### LFMNet Parameters

### Train parameters:

Parameter Default Description

epochs 1000 Number of epochs

valEvery 0.25 Validate every n percentage of the data

imagesToUse list(range(0,300,1)) Image indices to use for training and validation

GPUs None (Use all GPUs) List of GPUs to use: 0 1 2 for example

batchSize 128 Batch size

validationSplit 0.1 Perentage of the data to use for validation, from 0 to 1

biasVal 0.1 Bias initialization value

learningRate 0.005 Learning rate

useBias True Use bias flag

useSkipCon False Use skip connections flag

randomSeed None User selected random seed

fovInput 9 fov of input or neighboarhood around lenslet to reconstruct

neighShape 3 nT number of lenslets to reconstruct simultaneously, used at training time

useShallowUnet True Flag to use shallow or large U-net

ths 0.03 Lower threshold of GT stacks, to get rid of autofluorescence

datasetPath Brain\_40x\_64Depths\_362imgs.h5 Path to dataset

outputPath "runs/" Path to directory where models and tensorboard logs are stored

outputPrefix "" Prefix for current output folder

checkpointPath "" Path to model in case of continuing a training

### Eval parameters:

Parameter Default Description

imagesToUse li st(range(301,315,1)) Image indices to use for training and validation

GPUs None GPUs to use

datasetPath Brain\_40x\_64Depths\_362imgs.h5 Path to dataset

outputPath . Directory where models and tensorboard logs are stored

checkpointPath Your model's path Path to model to use for testing

checkpointFileName Your model's file File to use

writeVolsToH5 False Write volumes to H5 file?

writeToTB True Write output to tensorboard?