Notes 31-03-2020

Wrongly estimated values could be from the estimation procedure.

What we show now is actually pretty good

Random initializations would be expected to give better estimates

Try if a different random initialization gives better results

Comments on what we do:

* First estimate each row of U3
* Then estimate the single row of U2
* We should try to rewrite in the different order U2 -> U3
* Confused that we have the numerical solver
  + We are focusing on the optimization function
* Lx values are cropping values
  + Why did we choose them as we have?
    - Like a PCA model with the eigen vectors
* Not expected to run same experiments as in Krüger
  + Due to time issues

If we have issues:

The condition of our matrix is bad

Some LES might have some unstable equation systems

Compute one value to tell if we have a good and stable Eq system (Stella sends link)

If we have wrong estimates, it might be because of the basic model.

Maybe plot the error and make sure that it decreases

Plot the intermediate values of the optimization, to see how it “moves” through the coordinate system

**To-do:**

Attempt to do it in the opposite order

Run equation 18 instead of the optimizer

Same with 22

Tweak SVM so we can test it using the new estimates

Implement a NN classifier as well