Install remote working environment   
(howto: <https://userinfo.surfsara.nl/systems/cartesius/new-users>,

[https://userinfo.surfsara.nl/systems/shared/ssh](https://userinfo.surfsara.nl/systems/cartesius/new-users))

* winSCP for file transfer and remote editing of files (germonda@cartesius.surfsara.nl)
* Putty for terminal command line

Install required python packages

(howto: <https://userinfo.surfsara.nl/systems/cartesius/software/python>)

* For reading Nifti files  
  nibabel (<https://pypi.python.org/pypi/nibabel/2.1.0>)
* Layer Upscale2D requires lasagne 0.2  
  lasagne 0.2 (<https://github.com/Lasagne/Lasagne> from <http://lasagne.readthedocs.io/en/latest/user/installation.html#bleeding-edge-version>)
* Lasagne 0.2 requires Theano 0.9  
  theano 0.9 (<https://pypi.python.org/pypi/Theano>)
* Medpy (https://pypi.python.org/pypi/MedPy)

Code changes:

- Change to float64:

* inputs = T.dtensor4(**'X'**)
* targets = T.itensor4(**'Y'**)
* weights = T.dtensor4(**'W'**)

Batch file 'run\_script.sh':

#!/bin/bash

#SBATCH -t 4-00:00:00

#SBATCH -n 1

#SBATCH -p gpu

module load python/2.7.9

module load cuda/8.0.44

module load cudnn/8.0-v5.1

module load gcc/4.9.2

export PYTHONPATH=$HOME/pythonpackages/lib64/python:$HOME/pythonpackages/lib/python:$PYTHONPATH

srun python2 main.py

**Useful functions:**

Submitting batch jobs (<https://userinfo.surfsara.nl/systems/cartesius/usage/batch-usage>)

> sbatch run\_script.sh

> squeue -u germonda

> scancel jobid

> tail -f slurm-jobid.out

Accounting (<https://userinfo.surfsara.nl/systems/cartesius/usage/accounting>)

> accinfo