Instructions DTU Cluster

General Instructions: https://gist.github.com/RasmusJuul/86d8d664f25315e05d9bf95fe4412de5

Tensorflow Setup: https://www.hpc.dtu.dk/?page_id=3755c

- Download VPN: https://net.ait.dtu.dk/vpn/
- 2. Login in VPN with
 - a. Connect to the server: vpn.dtu.dk
 - b. Insert LoginCredentials: (student email, DTU password)
- 3. (Download ThinLink client: <a href="https://www.cendio.com/thinlinc/download="https://www.cendio.com/thinlinc/d
- 4. Access Cluster with Terminal:
 - a. ssh sXXXXXX@login1.hpc.dtu.dk
 - b. run linuxsh or voltash for interactive node with gpu (You should NEVER run anything on the login node, so always do this step)
- 5. Download WinScp for File exchange: https://gbar.dtu.dk/index.php/faq/25-winscp

```
Hostname: transfer.gbar.dtu.dk
User name: sXXXXXX
Password: DTU_PASSWORD
```

6. Create virtual environment

```
    run module load python3 (or whatever version of python you want e.g. python3/3.9.10)
    run python3 -m venv env (change "env" to whatever you want the environment to be called)
    run source env/bin/activate
    run pip install -r requirements.txt

            if you have problems with getting torch to run on GPU try installing it like this pip install torch torchvision -f https://download.pytorch.org/whl/cul17/torch_stable.html

    Add loading of the module to the activate file, so it is automatically done whenever you source the env.

            run cd env/bin
            run nano activate
            Add "module load python3" to the top of the document and press ctrl-x then y to save the changes.
```

- 7. Create bash-file
 - a. Available GPUs: https://www.hpc.dtu.dk/?page_id=2759
- 8. Submit Job to Cluster by running bash-file with: bsub < submit.sh
- 9. Check status of job with <code>bstat</code>