

SETTING UP THE ENVIRONMENT (PYTHON)

```
mkdir $SCRATCH/scinet-hpc133  
cd $SCRATCH/scinet-hpc133
```

Graham

```
module load cuda python scipy-stack  
virtualenv --no-download virtualenv  
source virtualenv/bin/activate  
pip install --no-index --upgrade pip numba cupy
```

```
wget scinet.courses/mod/1735 -O src.tar.bz2  
tar xf src.tar.bz2
```

Graham

```
Running from login node  
srun --time=00:01:00 --gres=gpu:p100:1 \  
python src/vector_add/numba/vector_add.py
```

Interactive job

```
salloc --time=00:15:00 --gres=gpu:p100:1
```

* you may have to specify --account

Mist

```
module load anaconda3  
conda create -p condaenv -c conda-forge \  
python=3.8 numba cupy cudatoolkit=11.0.3 -y  
source activate ./condaenv  
conda clean --all -y  
rm -rf ~/.conda/pkgs/*
```

Mist

```
Running from login node  
python src/vector_add/numba/vector_add.py  
Interactive job  
debugjob -g 1
```