

NetSci Documentation

1 Installation

```
wget https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86_64.sh
```

```
chmod +x Miniconda3-latest-Linux-x86_64.sh
```

```
source ~/.bashrc
```

```
conda install -c conda-forge git
```

```
git clone https://github.com/amstokely/netsci.git
```

```
cd netsci
```

```
NETSCI_ROOT=$(pwd)
```

```
conda env create -f netsci.yml
```

```
source activate netsci
```

```
mkdir ${NETSCI_ROOT}/build
```

```
cd ${NETSCI_ROOT}/build
```

```
nvcc ${NETSCI_ROOT}/build_scripts/cuda_architecture.cu -o cuda_architecture
```

```
CUDA_ARCHITECTURE=$(./cuda_architecture)
```

```
cmake .. -DCONDA_DIR=$CONDA_PREFIX -DCUDA_ARCHITECTURE=${CUDA_ARCHITECTURE}
```

```
cmake --build . -j
```

```
make python
```

```
ctest
```

```
cd ${NETSCI_ROOT}/tests/cuarray/python
```

```
pytest
```

```
cd ${NETSCI_ROOT}/tests/netcalc/python
```

```
pytest
```

2 Tutorials

Jupyter notebook tutorials for each NetSci library are located in the **tutorials** directory.