

Shape Analysis Exercise Collection

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Exercise 1 Software Setup

(a) Setup Conda

Go to the following link and install *conda*:

<https://conda.io/projects/conda/en/latest/user-guide/install/index.html>

Create and activate a virtual environment with conda:

```
conda create -n shapeanalysis python=3.8
conda activate shapeanalysis
```

Install the necessary packages:

```
conda install numpy scipy matplotlib
conda install -c conda-forge k3d jupyterlab
pip install openmesh
```

(b) Start a Jupyter Notebook

Navigate to the folder with the *.ipynb* files and execute:

```
jupyter notebook
```

This should start a tab with a browser where you can open the different notebooks.

(c) Example Exercise

Implement and test the function in *exercise.ipynb*.

(d) Upload

Upload *exercise.ipynb* to moodle.

This assignment will not be graded, but is a check that everything is set up properly.