Requirements to run registration GUI:

Python2.7 (https://www.python.org/download/releases/2.7/)
PyQt4
VTK5

First install python2.7. To install PyQt4 and VTK5, it is suggested to install anaconda
https://www.continuum.io/downloads. Once installed, run **conda install pyqt=4**
and **conda install vtk=5** in Anaconda Prompt to install PyQt4 and VTK5.

Note: if you have a different version of PyQt or VTK, the registration GUI might throw errors.
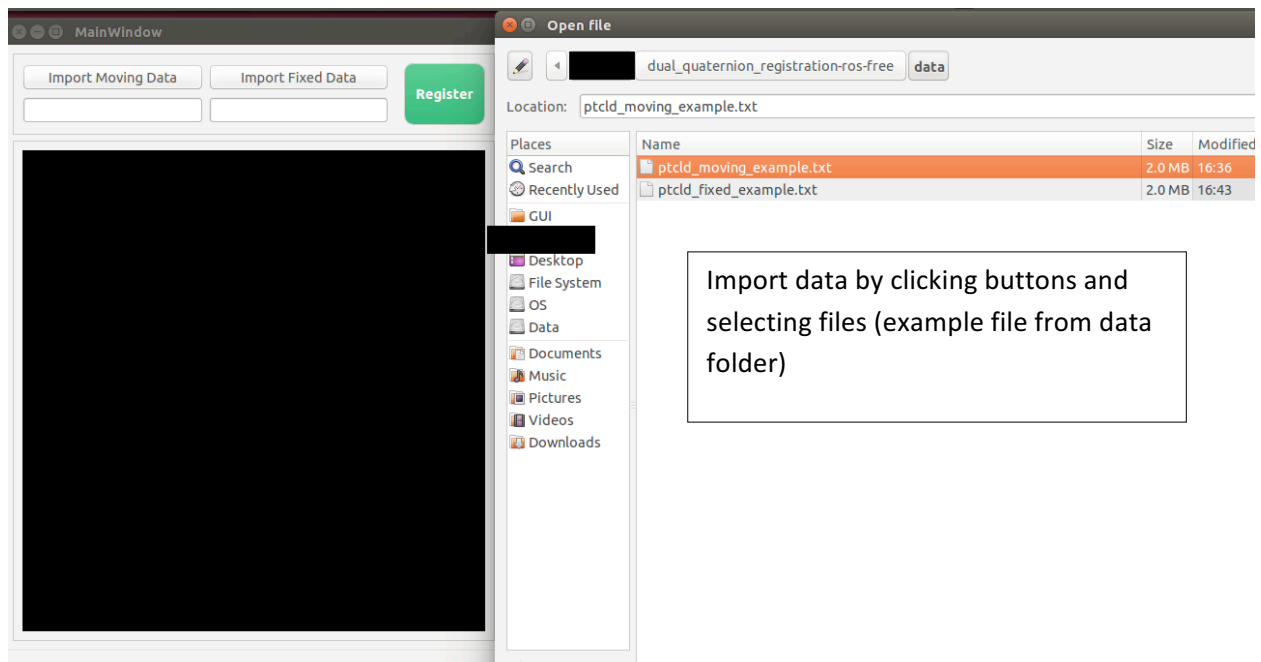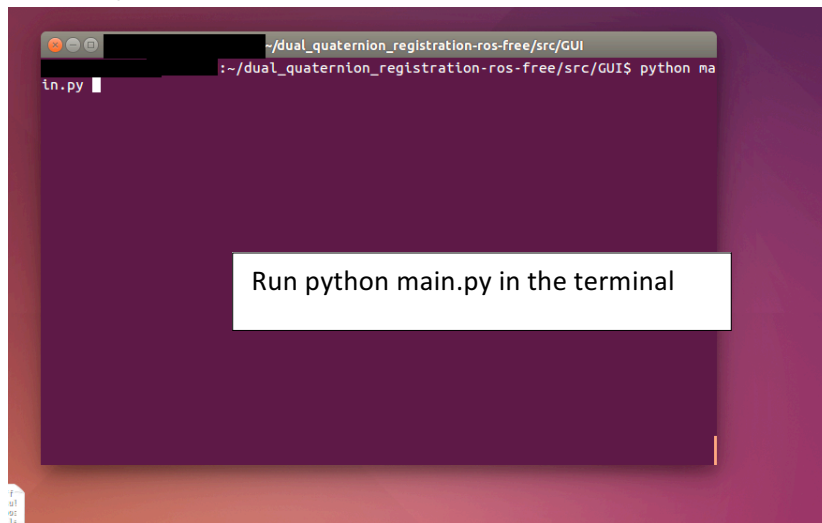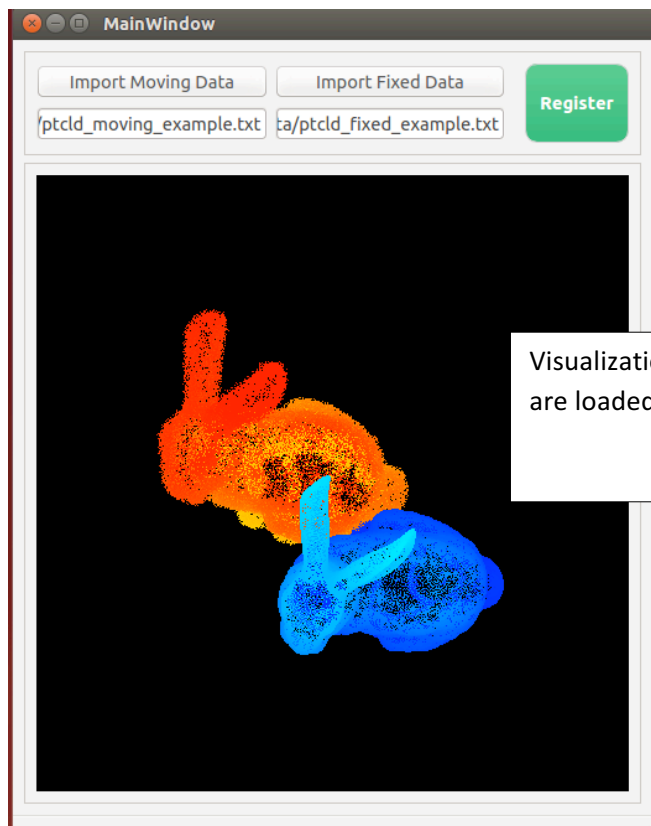
How to run registration GUI:
1. Open command prompt (Windows) or terminal (MacOS or Linux)
2. Change the current directory into the src folder
3. Type python main.py and hit enter
4. Once the GUI is launched, click "Import Moving Data" to import the moving dataset in .txt form (example file stored in "data" folder) , click "Import Fixed Data" to import the fixed dataset in .txt form.
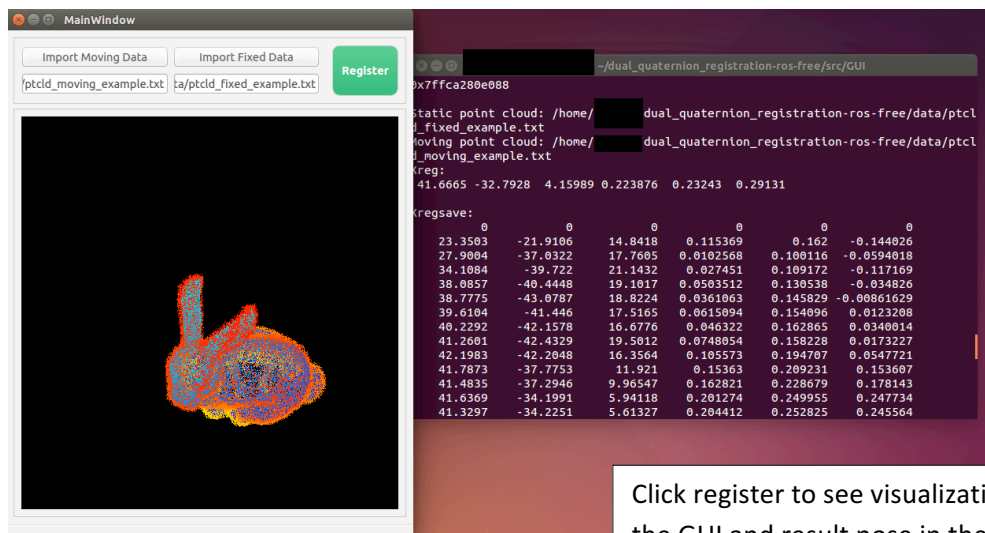
    Format of the dataset:
    -   Stored in .txt file
    -   Each (x, y, z) point is represented by a line in the file, separated by space (please see the example file for reference)

5. As you load data, you will see visualization. Click register when both datasets are loaded to see the result.
6. The registration result will be printed in the terminal you used to call main.py.

An example:

Run python main.py in the terminal

Import data by clicking buttons and selecting files (example file from data folder)

Visualization should appear once data are loaded

Click register to see visualization in the GUI and result pose in the terminal