A napari FF-SRM plugin for advanced microscopy image processing.

1. Installation process.

Review the system requirements before installing Anaconda Distribution. Select the installers for your computer's operating system: https://docs.anaconda.com/free/anaconda/install/index.html

1.1 Installing Anaconda on Windows.

1) **Download** the Anaconda installer from https://www.anaconda.com/ (fig. 1, left).
2) Go to the "Downloads" folder and double-click the **installer** to launch.
3) Click "**Next**" on the Setup window (fig. 1, right):
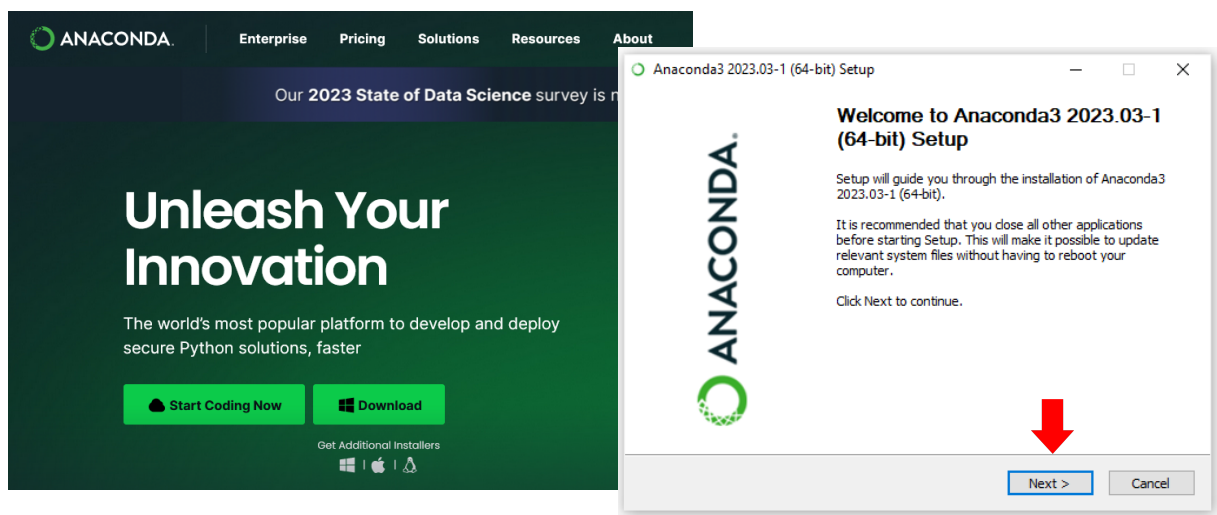
Figure 1. Installation windows for Anaconda Distribution. *Left*: Anaconda webpage. *Right*: Anaconda's setup window.

4) Read the licensing terms and click "**I Agree**" to continue (fig. 2, left).
5) It is recommended to install the program using the "**Just Me**" option, which will be limited to the current user account. However, if you wish the program available for all accounts on the computer, select "**All Users**". Please note that selecting the latter option will require Windows Administrator permissions. Click "**Next**" (fig. 2, right):
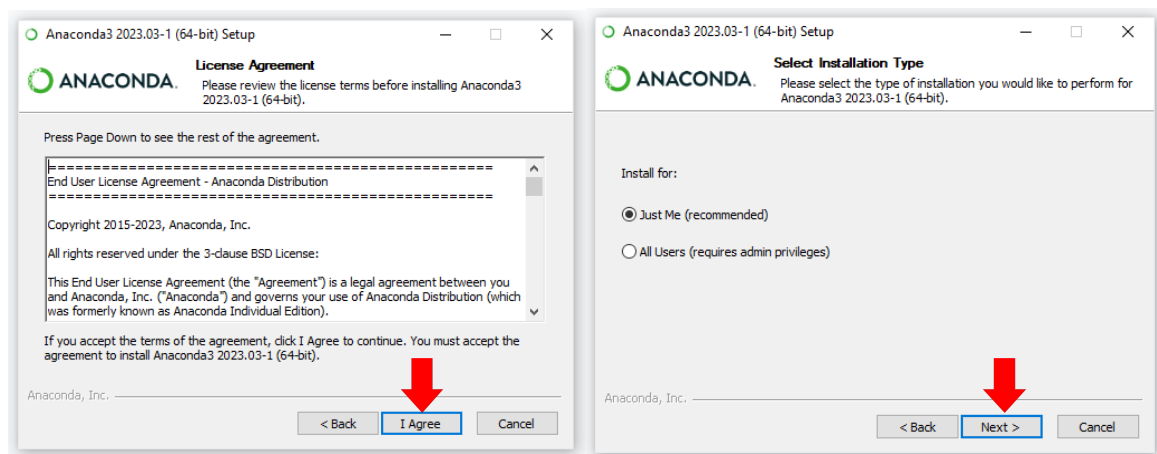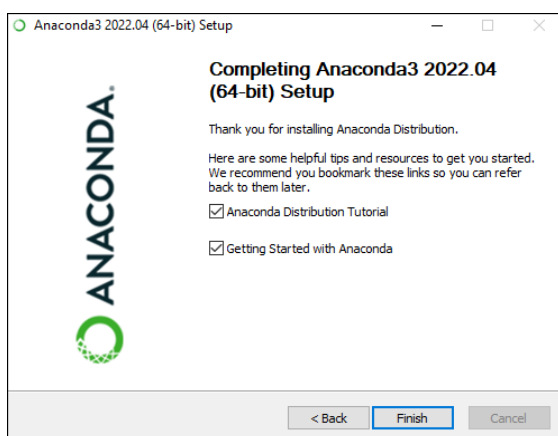
Figure 2. Anaconda installation Setup. *Left*: License agreement. *Right*: Anaconda's installation type.

6) Select an installation **location** (Destination Folder) and click "**Next**" (fig. 3, left).
7) Choose wheter to add Anaconda. It is recommended to register Anaconda software as your default Python because adding it to your PATH environment can interfere with other software. Click "**Install**" (fig. 3, right):
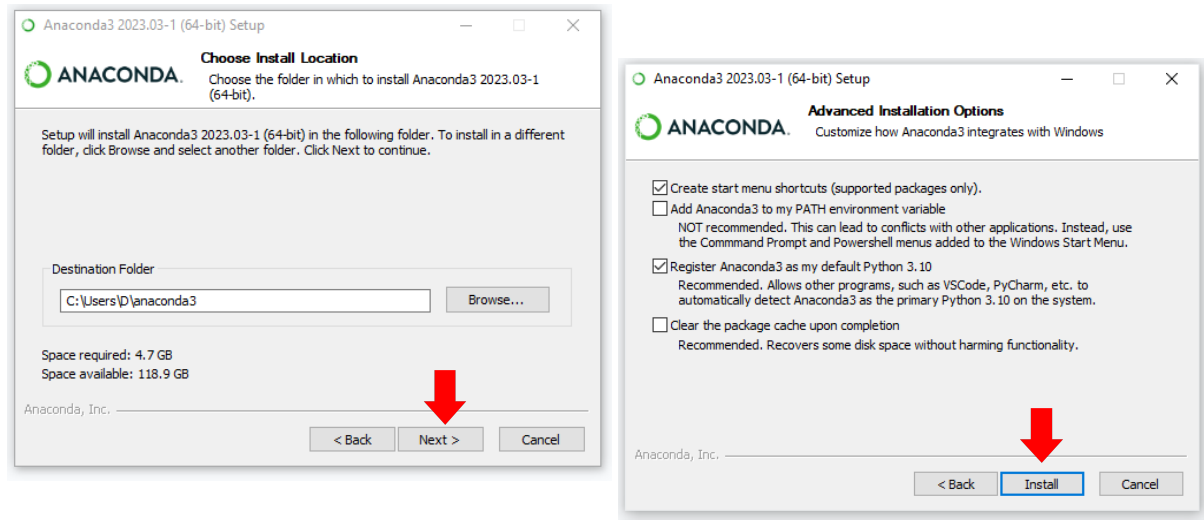
Figure 3. Anaconda installation Setup. *Left*: Installation location. *Right*: Anaconda's advanced installation options.

8) If you want to watch the packages Anaconda is installing, click "**Show details**". Click "**Next**".
9) After a successful installation you will see the "**Thanks for installing Anaconda**" dialog box.
10) Click the "**Finish**" button and verify the installation.

Figure 4. Anaconda installation Setup. *Left*: Installation details.

1.2 Installing Napari.

Napari is a fast, interactive and multi-dimensional image viewer for Python. To select which distribution to install and further details visit: https://napari.org/stable/.

For those familiar with Python, Napari can be installed on most macOS, Linux, and Windows systems using pip:

1) First install napari viewer: It is highly recommended to install napari into a clean virtual environment using an environment manager like conda or venv. For example, with conda:

   conda create -y -n napari-env -c conda-forge python=3.9
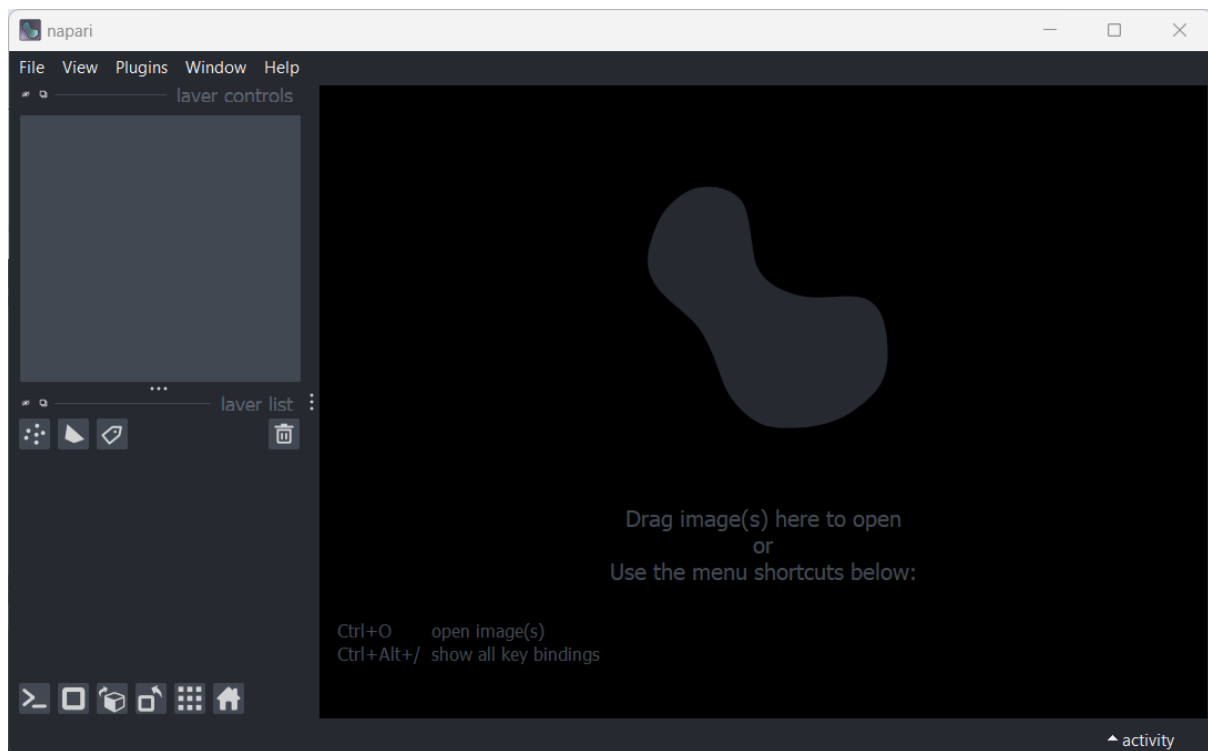   conda activate napari-env
   pip install "napari[all]"

2) Open Napari from command line:

   Once installed, simply run
   napari

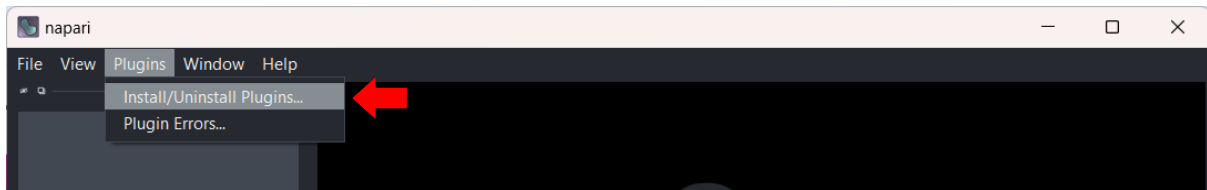For further information visit: https://napari.org/stable/tutorials/fundamentals/quick_start.html

1.3 Installing napari-superres plugin.

1) When starting Napari, it will display the following window on the screen:

Figure 5. Napari's software window.

2) Select the "**Plugins**" Menu. Click the "**Install/Uninstall Plugins**" option (fig. 6).
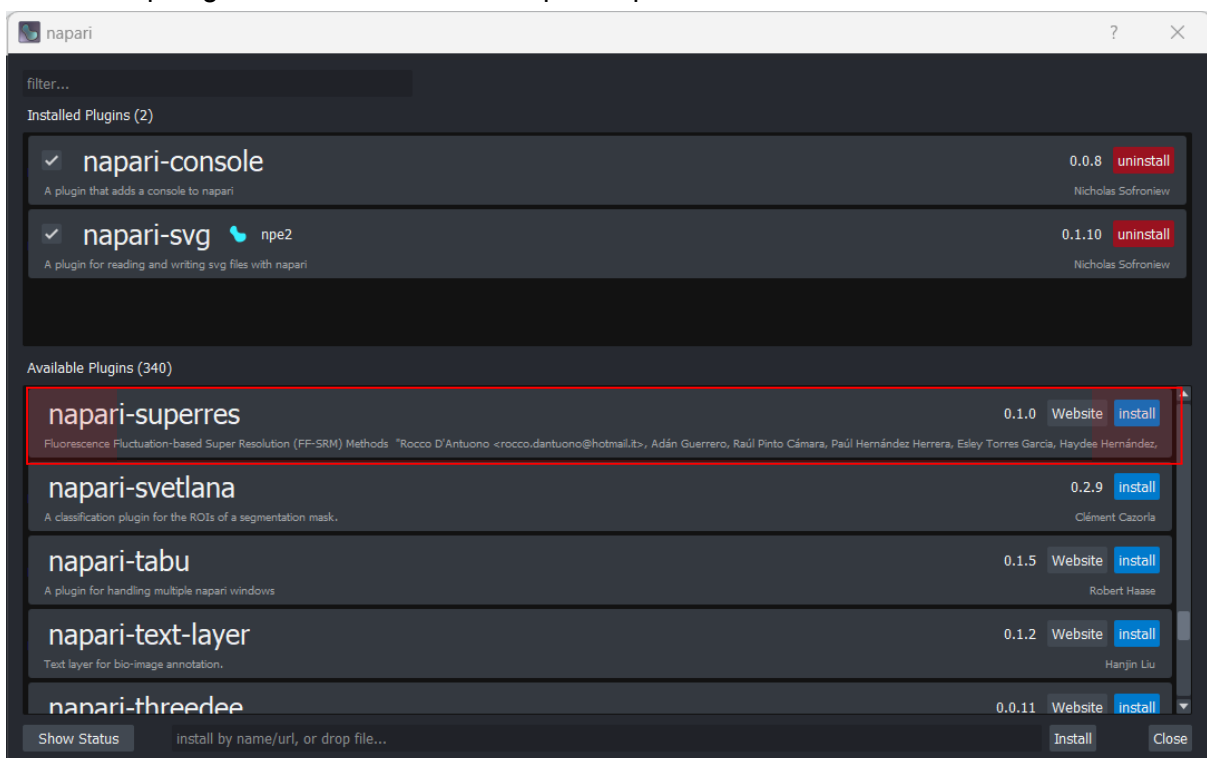
Figure 6. Napari installation plugin menu.

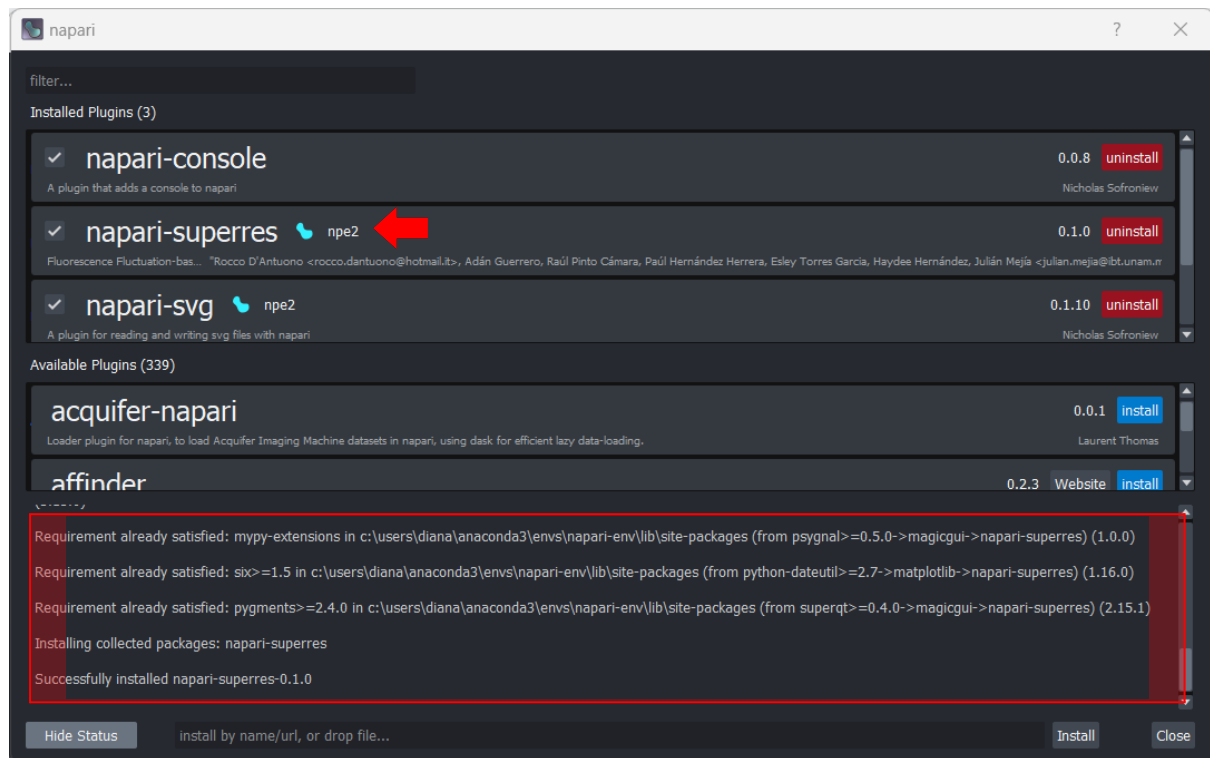**3)** Install napari-superres.

Simply search for the ¨napari-superres¨ plugin in the plugin install package interface and click install (fig. 7).

GitHub that contains the beta version of MSSR:
https://github.com/RoccoDAnt/napari-superres

Figure 7. Search for the ¨napari-superres¨ (red rectangle) in the **Available Plugins** Napari menu to install.

4) Click "**Install**" and monitor the installation by clicking on **Show Status** option (fig. 8):

Figure 8. Napari-superres plugin installation process on Napari.

5) Once the plugin has been successfully installed, restart Napari and on the "**Plugins**" menu it will appear the napari-superres option and the following menu:
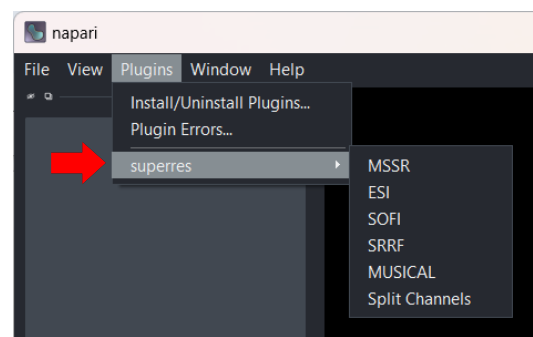
Figure 9. Napari-superres plugin installed on Napari.