Basic programming is a key aspect not only to bioinformatics, but also to many other fields. As the world evolves to include more and more computations tasks, new coding challenges are often presented to researchers. Many programmers and non-computation researchers alike utilize a coding language called Python. Python is a non-compiled high-level programming language which can be a great start for beginners to the field. Some computers come with python pre-installed, others need python installed before any programming can happen. One very easy way of installing Python and keeping control of your installation and libraries is utilizing Anaconda. Here in this tutorial, we will walk you through the steps of downloading Anaconda and getting it running on your computer. If you already have it installed feel free to move on to the next tutorials.

(*Note*: If you have a netbook which doesn't allow for the installation of Anaconda, a good resource to use for your coding would be https://colab.research.google.com/ which acts very similarly to a Jupyter Notebook which is an IDE through Anaconda).

1. Navigate yourself to the Anaconda website: https://www.anaconda.com/distribution/
2. Select the type of operating system your computer runs (Windows, macOS, Linux) and the download the executable for Python Version 3.7.
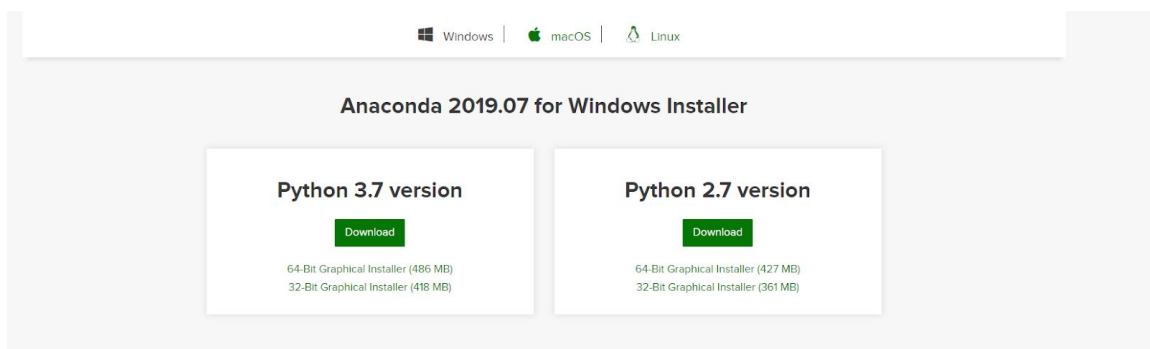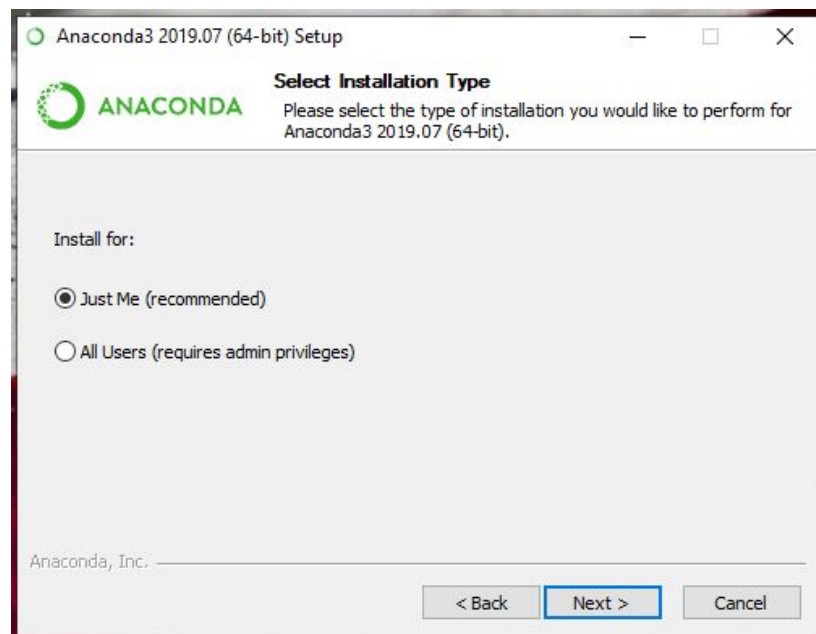

Depending on your machine, continue this tutorial at Windows macOS

WINDOWS

3. Once it's finished downloading, go ahead and run the set-up which should bring you this popup.
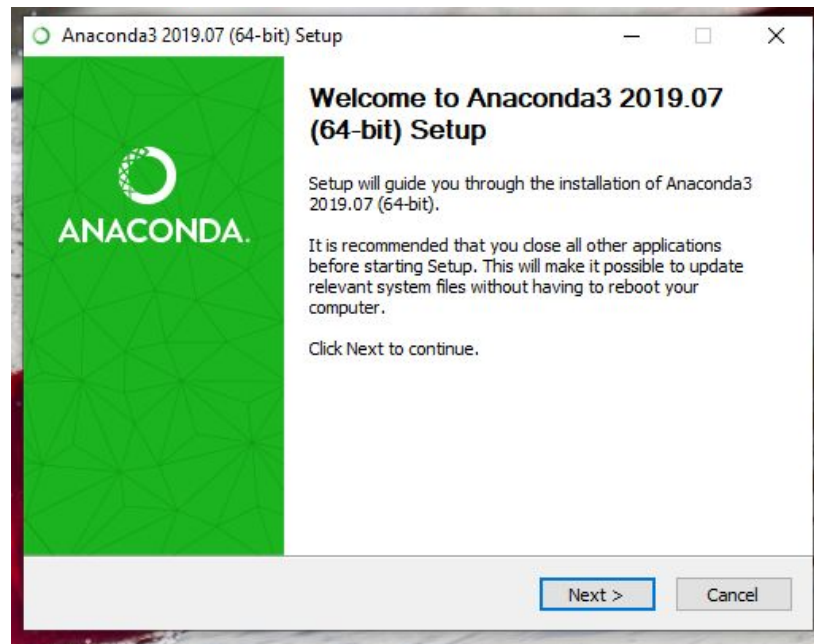
4. Click "Next"
5. Click "I Agree"
6. Select Option "Just Me (recommended)" then hit next

7. Choose install location: Destination Folder
    a. Probably ok where they suggest to put it
    b. If not, click "Browse" and select a different location
   c. This is what it should look like (or something similar):
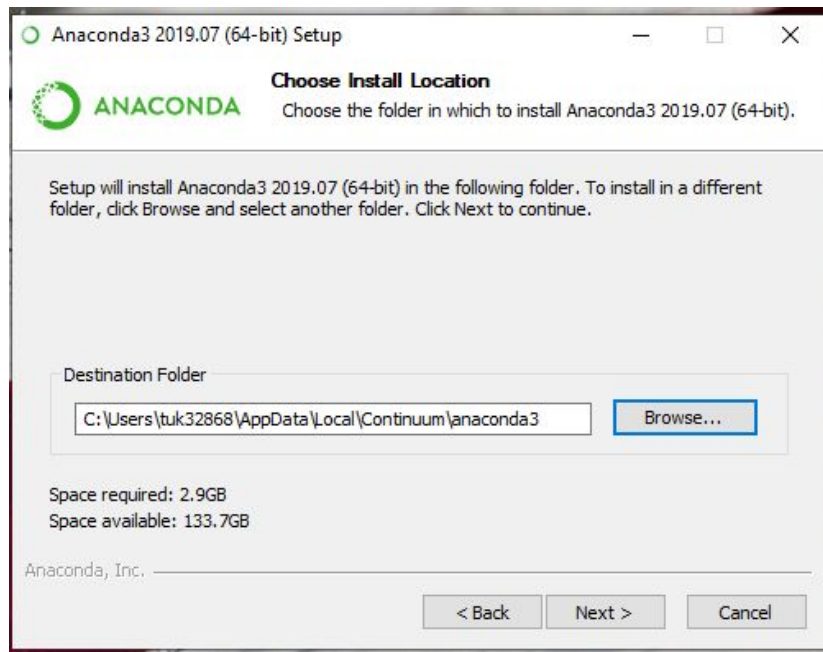
8. Select the "Register Anaconda" it is the default option, and the most useful for what we need
   a. it looks like this:
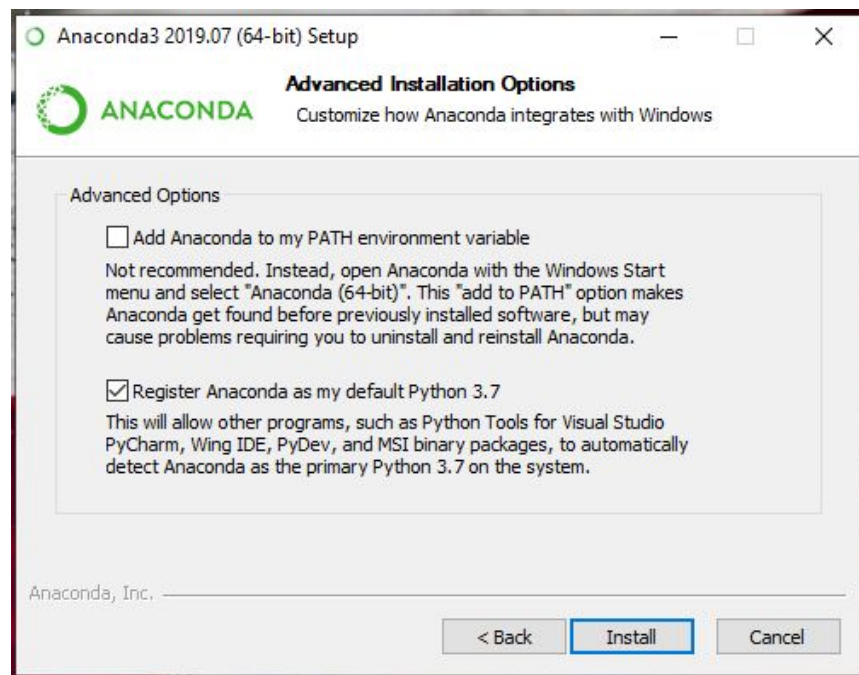
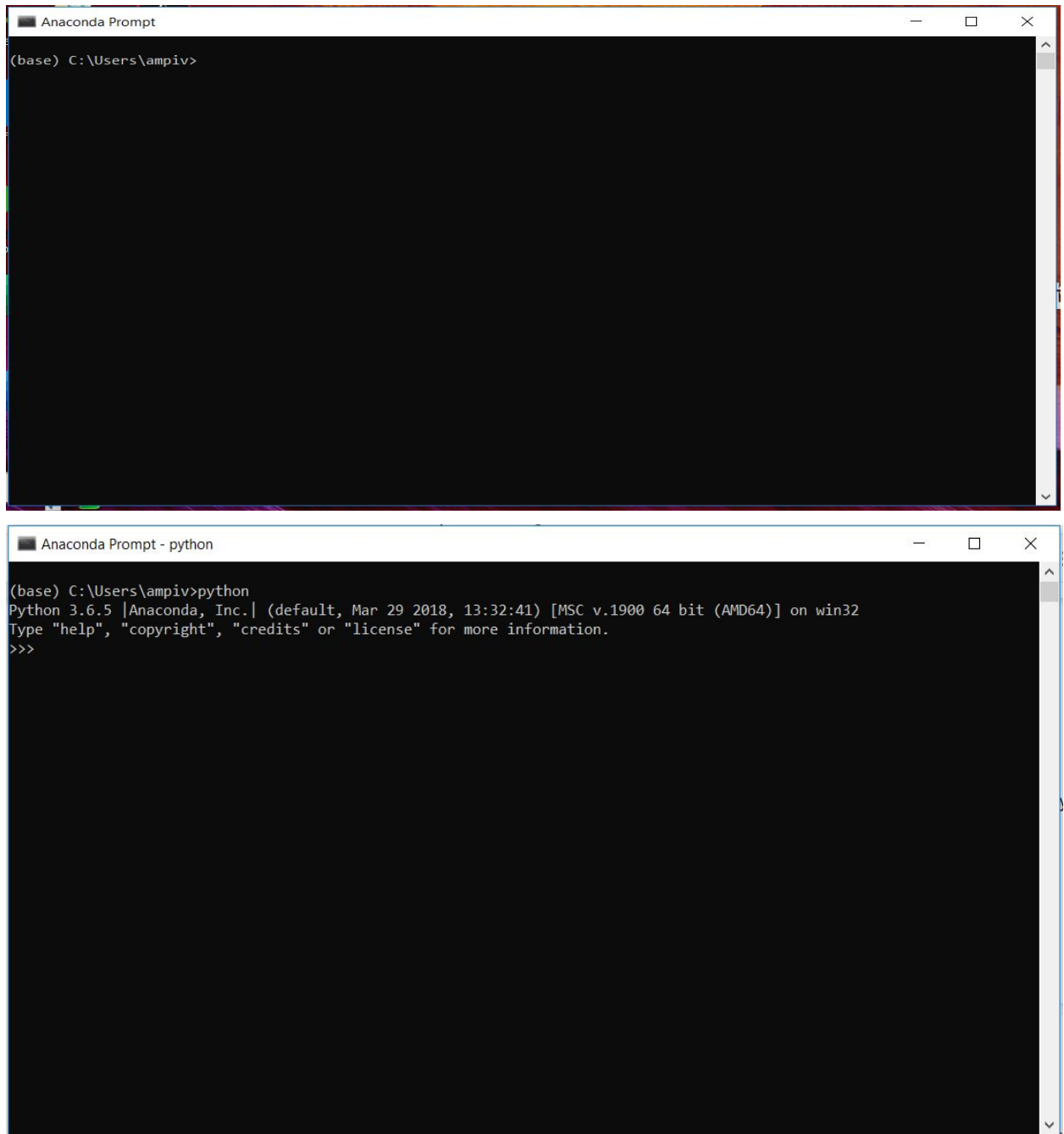   b. Then select "Install"

9. This might take a little bit, just be patient!
10. Once it is complete, select "Next"
11. You do NOT need to download PyCharm, we will use IDE's that come with Anaconda
12. You are finished setting up your installation of Anaconda. Go ahead and select "Finish". Now we're going to make sure it set-up correctly.
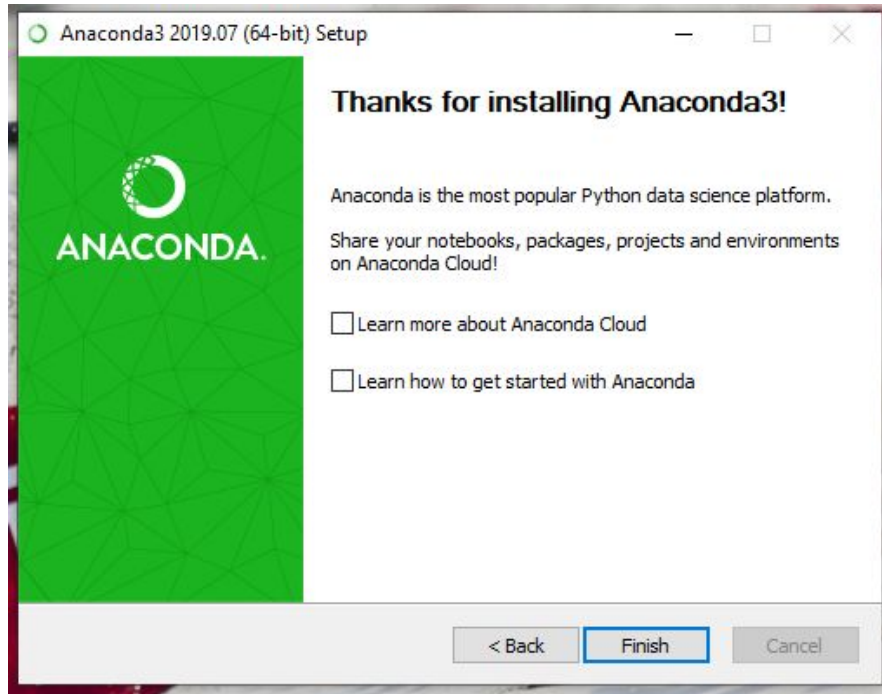
13. When you open your start menu, you should now have an Anaconda Folder which contains the Navigator, Anaconda prompt, Jupyter Notebook, and Spyder.
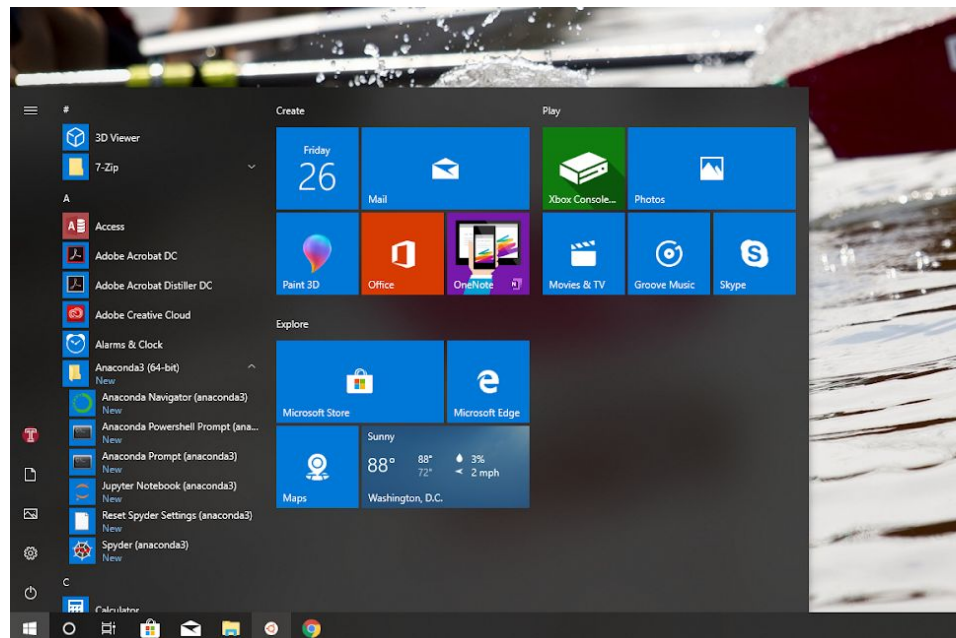
14. Go ahead and open the Anaconda Prompt. When it appears on screen, type in: python and hit enter. You should the following on your screen.
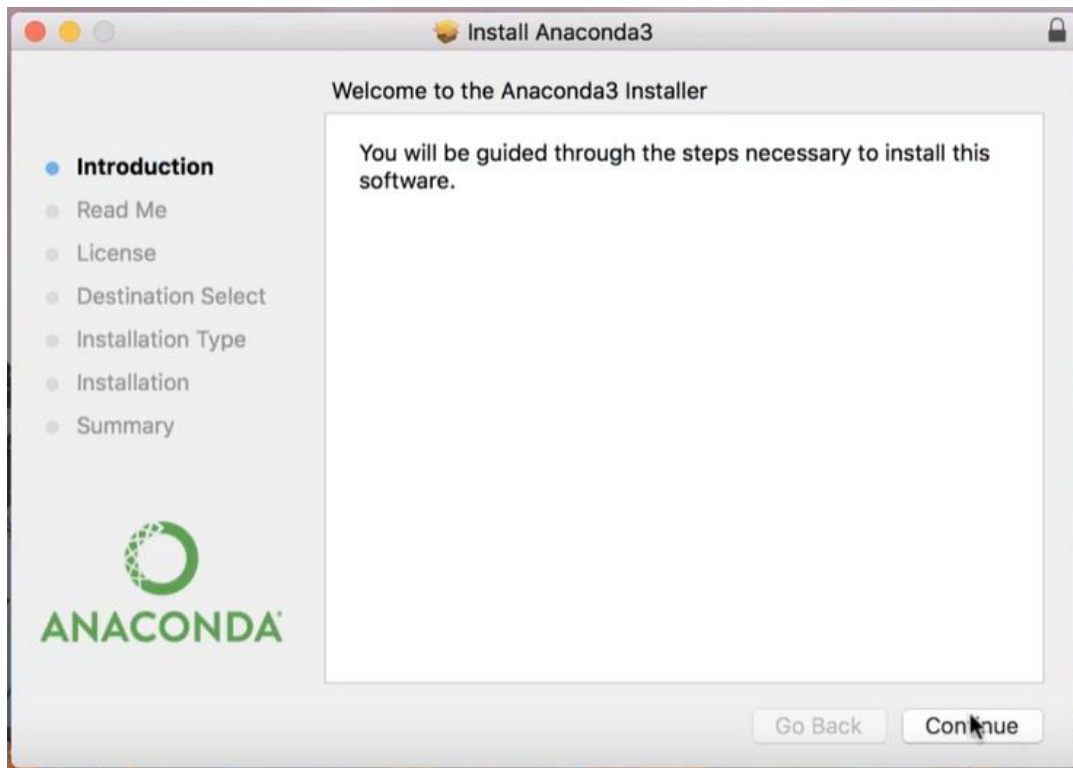

15. Congratulations! Your Anaconda installation should be all set. Continue onto the Jupyter Notebook and Spyder tutorials!
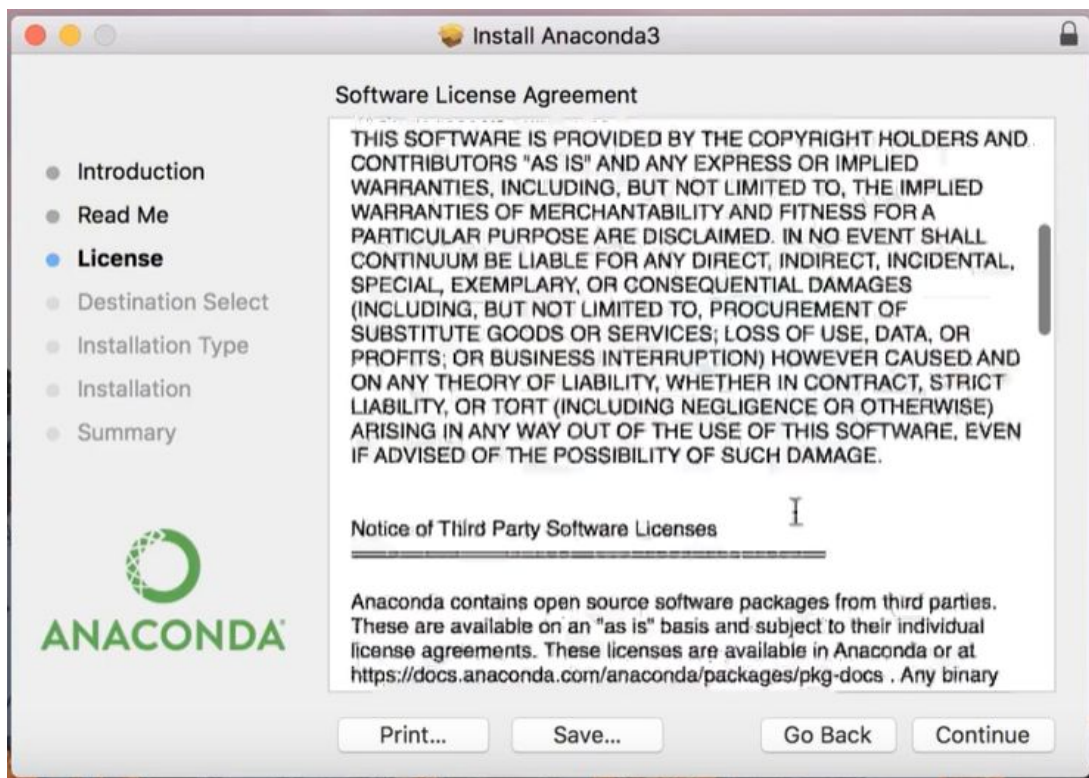
macOS

3. Click the downloaded file and click continue to start the installation.

4. On the introduction screen, you can just select continue.

5. On the "Read Me" screen, again you can just select continue. This contains information about the packages included with the installation.
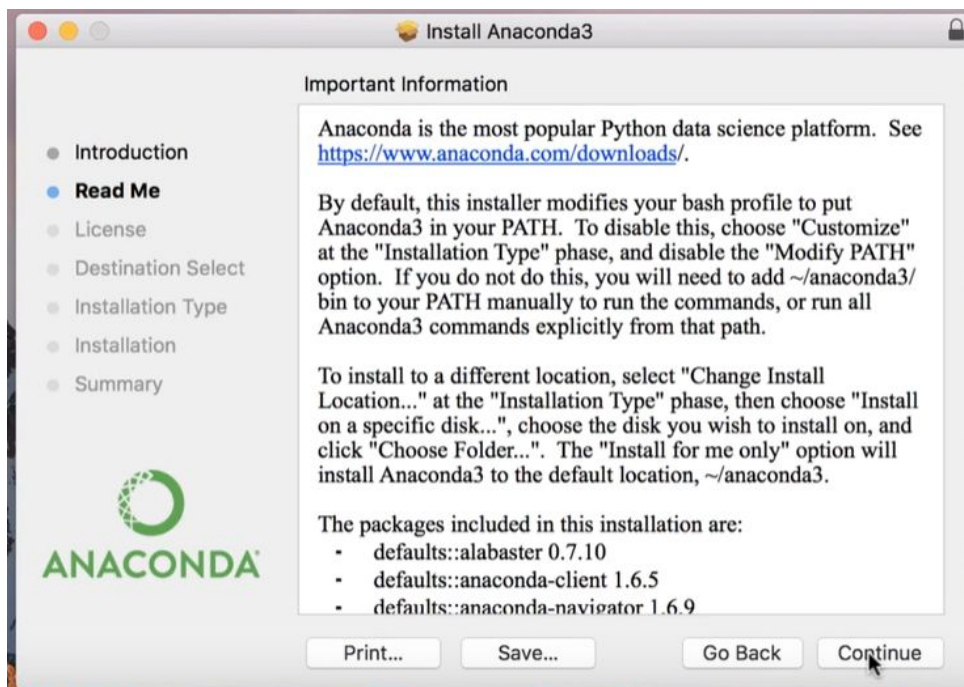
6. On the "License" screen, again you can just select continue.

7. On the "Destination Select" screen, you should select "Install for me only" as most of you are on your personal laptops. Then you can select "continue".
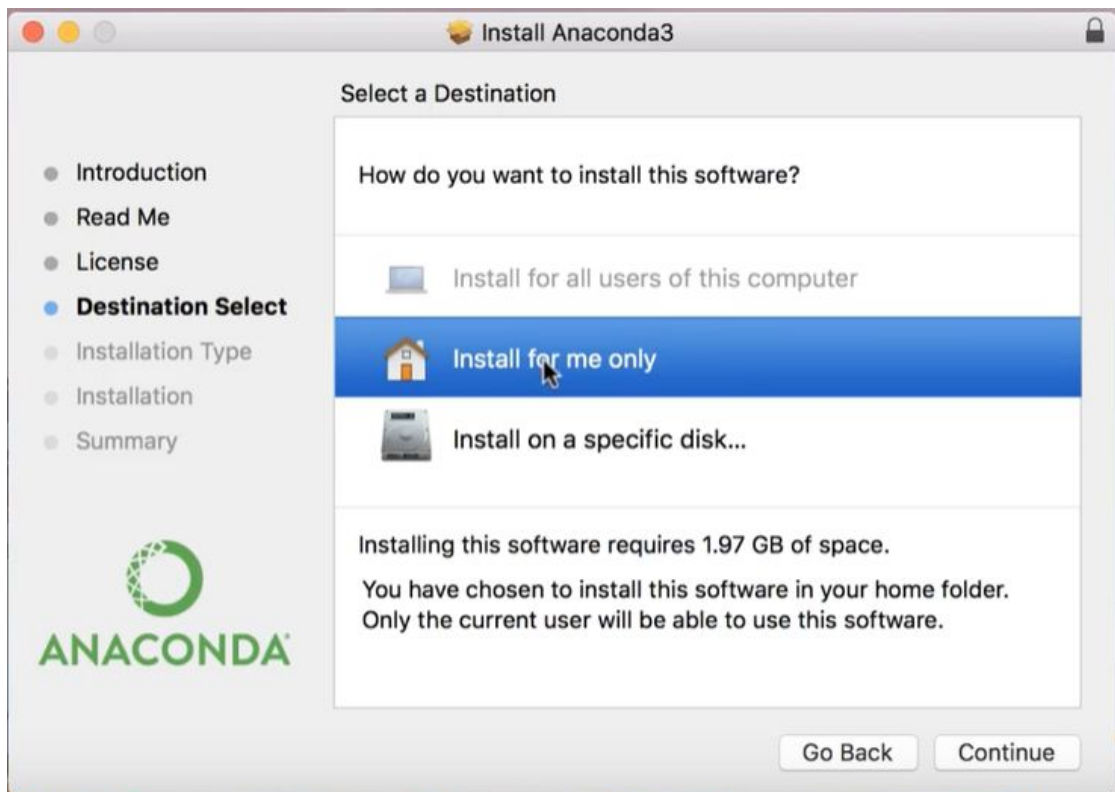
8. On the "Installation Type" screen, likely you'll want to just do the standard installation. If this is the case, click the Install button to install Anaconda in your home user directory.
   a. If you want to change the location of the installation, you can select "Change Install Location" and then select the directory of choice. If you do so, make sure to select "Install for me only" on the destination screen.
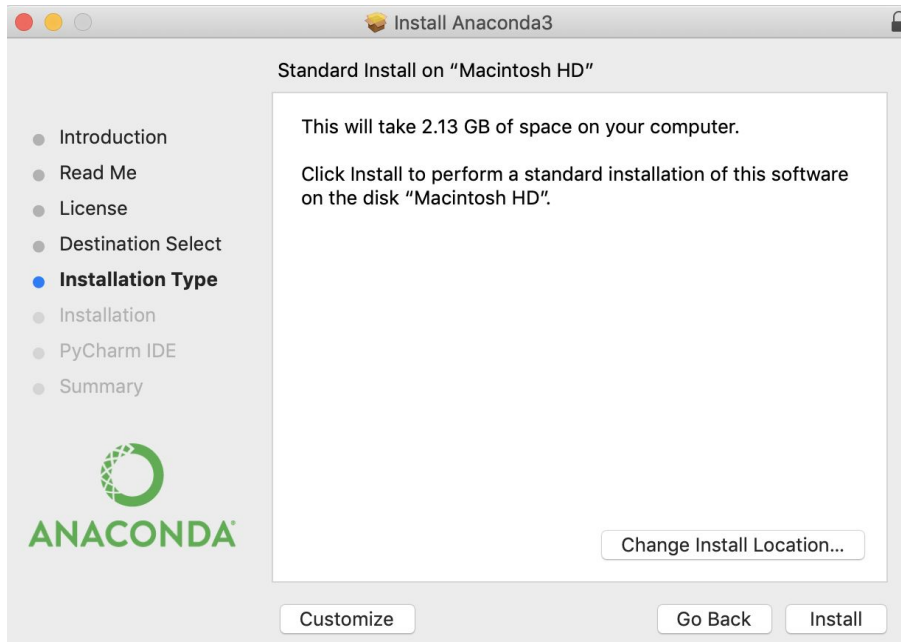
9. The installation process will run on the "Installation" screen.
10. After the installation, it will ask if you want to install PyCharm for Anaconda. Go ahead and skip this for now. We will first start with utilizing the built-in IDEs. In the future, you may decide to give PyCharm a try.
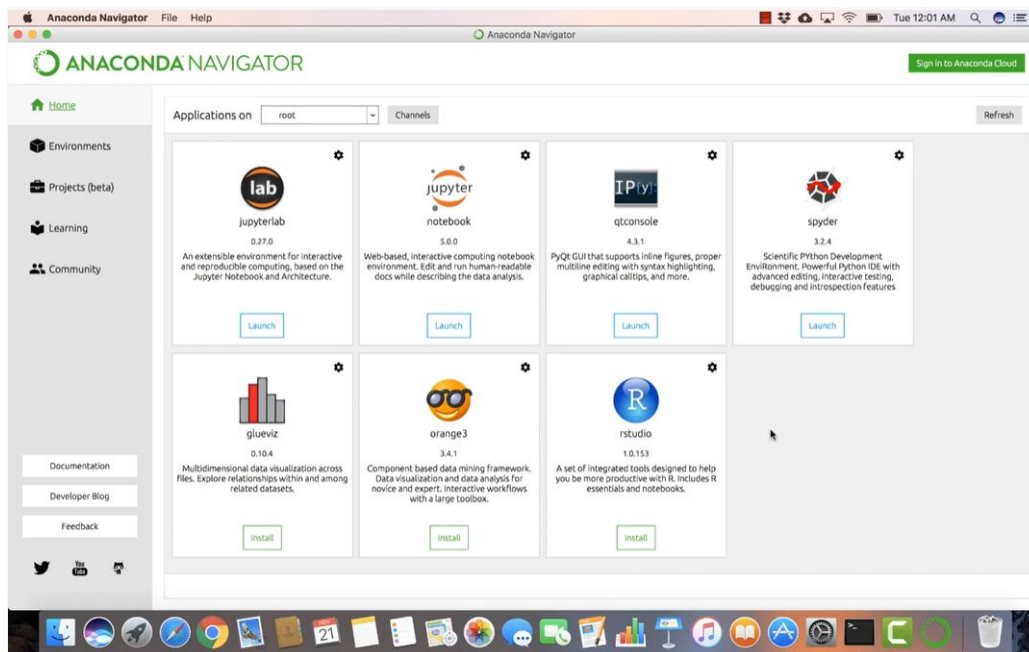11. To know that Anaconda was successfully installed, you should see:
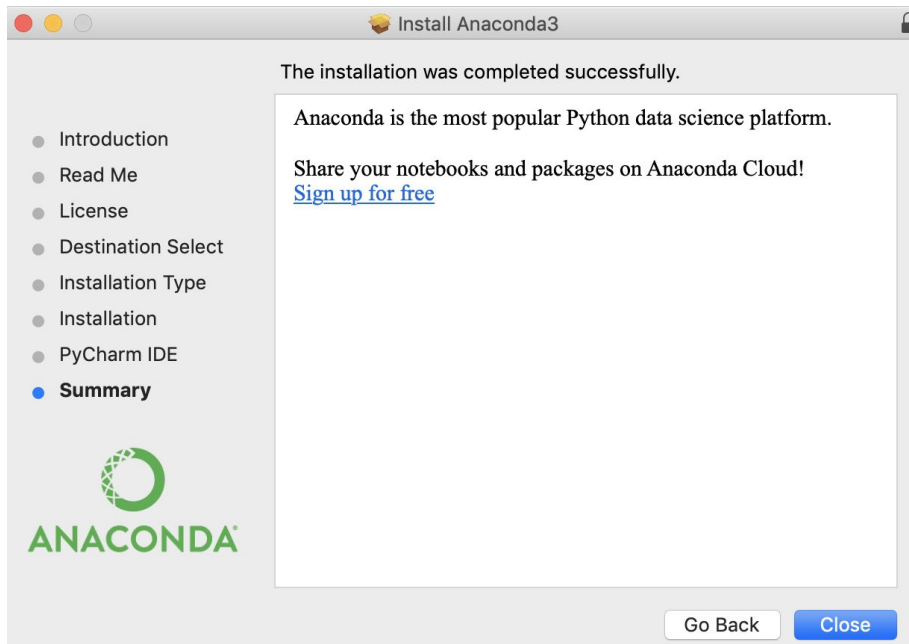
12. When you close out of the Anaconda Installer, you will see a prompt asking "Do you want to move the "Anaconda3" Installer to the Trash?". Go ahead and select "Move to Trash".
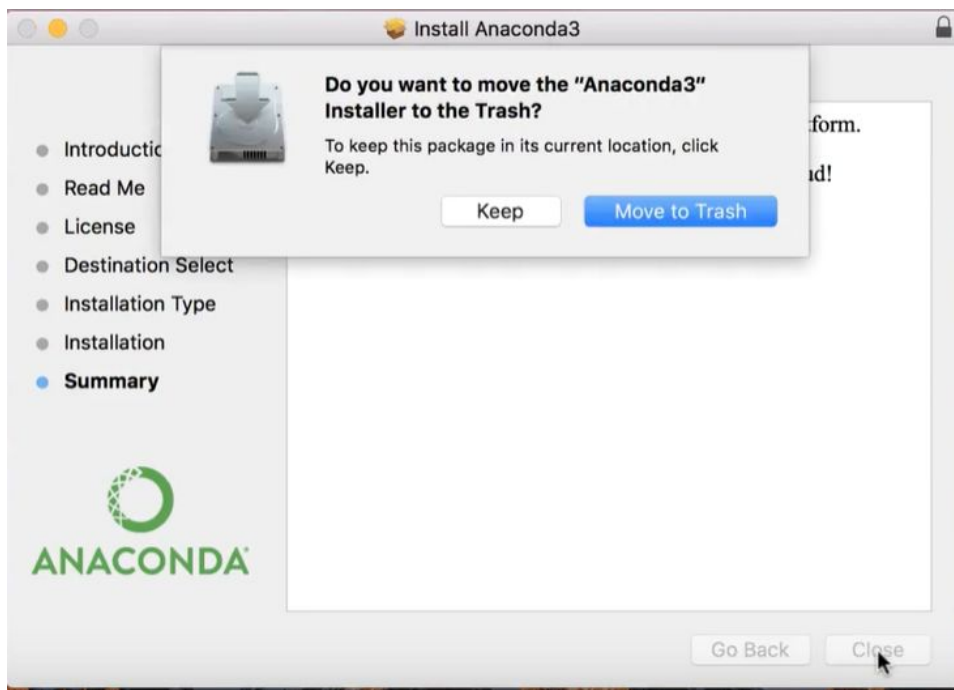
13. You should now be able to access Anaconda Navigator, Jupyter Notebook, Spyder, and the Anaconda prompt. To access Anaconda Navigator, go ahead and go to your Launchpad and you should see Anaconda Navigator which you can go ahead and double click on to launch.

14. Once Anaconda Navigator launches, you should be able to see Jupyter Notebook and Spyder listed.

15. Congratulations! Your Anaconda installation should be all set. Continue onto the Jupyter Notebook and Spyder tutorials!