# Compgi21 Lab 1 Python Installation

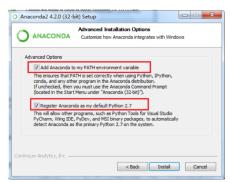
UCL

October 2017

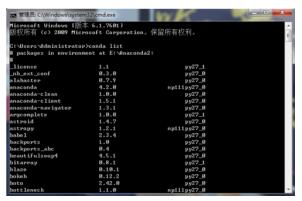
### Anaconda

- What is Anaconda? Anaconda is a Python distribution to help you install Python and its 3rd party packages for Data Science work. It includes:
  - The Python core language
  - ▶ 1000+ Data Science packages
  - Jupyter Notebook
  - Conda, Anaconda's package manager
- Why Anaconda?
  - Ease of Python installation
  - Ease of packages and version management
  - ► Full version comes with numpy, scipy, scikit-learn and matplotlib etc.

- Download Anaconda from https://www.anaconda.com/download/ (find the installer matching your system and choose Python3.6)
- Install Anaconda Check the two boxes in Advanced Options



Check if you have installed Anaconda correctly Type conda list in your terminal(Mac/Linux) or cmd(Windows) and you should see output like this:



The output tells you linked packages in a conda environment

## **Jupyter**

#### Notebook document

Notebook documents are documents produced by the Jupyter Notebook App, which contain both computer code (e.g. python) and rich text elements (paragraph, equations, figures, links, etc...). Notebook documents are both human-readable documents containing the analysis description and the results (figures, tables, etc...) as well as executable documents which can be run to perform data analysis.

### Jupyter Notebook App

The Jupyter Notebook App is a server-client application that allows editing and running notebook documents via a web browser. The Jupyter Notebook App can be executed on a local desktop requiring no internet access (as described in this document) or can be installed on a remote server and accessed through the internet.

(http://jupyter-notebook-beginnerguide.readthedocs.io/en/latest/what\_is\_jupyter.html)

## Open your Assigment 1 in Jupyter

- Download Assignmet 1 from Moodle
- 2 type cd /path/to/your/assignment\_1/folder in your terminal or cmd
- type jupyter notebook (you should see:

