**Windows 10 – 64bits – Installing anaconda and creating microbiome environment**

*Command line <dir> instead of <ls> on Windows command prompt*

***Step 1. Install Anaconda3 with python 3.7 for Windows 10 64bit***

Go to anaconda.com 🡪 Anaconda Distribution 🡪 Download 3.7 version .exe 🡪 run the executable (next, next, next, opted out the option add to path)

* + Open anaconda prompt in Windows 10

***Step 2. Create conda environment with required python packages***

* Requirements – software to install
  + Git at <https://gitforwindows.org/>
  + Visual Studio (Microsoft) build tools to <https://visualstudio.microsoft.com/visual-cpp-build-tools/>
* conda create -n microbiome\_py36 python=3.6 numpy scipy pandas matplotlib scikit-learn seaborn
* conda activate
* do quick check with imports in python command line (remember import sklearn)
* conda install -c anaconda py-xgboost
* pip install tensorflow==1.13.1
* pip install keras==2.2.4
* pip install eli5==0.10.1
* pip install scikit-learn==0.21.0
* pip install shap==0.34.0
* conda install jupyter==1.0.0
* To install **calour** package locally on Windows
  + Install git (if it’s not installed already) download and next, next, etc.) and check if git command line works
  + pip install cython
  + Try “pip install biom-format” – if it fails, Microsoft Build Tools 2015 need to be installed
  + Go on the browser to <https://visualstudio.microsoft.com/visual-cpp-build-tools/> and install “Desktop development with C++”
  + pip install scikit-bio
  + pip install biom-format
  + pip install docrep
  + conda install -c anaconda git
  + pip install git+git://github.com/biocore/calour.git
* create envoriment file .yml (optional)
  + conda env export > microbiome\_env\_Windows10\_64bit.yml