

# Deep Learning in Medicine

BMSC-GA 4493, BMIN-GA 3007

## Lab 1: PyTorch and Packages Setup

In this lab, we will be walking through the steps to setting up the environment for the course. We would mainly be using PyTorch, a deep learning package for Python, for this class. Please step through the following guidelines.

1. Install Anaconda from <https://www.anaconda.com/download/>. Select the Python 3.6 version for your operating system.

2. For macOS and Linux, open up terminal. For Windows, open Anaconda Prompt from Start.

3. Create a conda environment by (may take a while)

```
>> conda create -n py35 python=3.5 anaconda
```

4. Activate the environment

```
>> conda activate py35
```

5. Install the required packages using the command:

```
>> conda install <package_name>
```

For the purpose of this course, please install the following packages:

- numpy
- pandas
- scikit-learn
- scipy
- matplotlib
- pytorch
- **macOS/Linux:** follow the guidelines on <http://pytorch.org/>. Select your OS, conda, and python version 3.5. Leave the cuda option as 8.
- **Windows:**

```
>> conda install -c peterjc123 pytorch
```

6. Open up Jupyter notebook using the command

```
>> jupyter notebook
```

from either your terminal or Anaconda Prompt. Note that Jupyter notebook uses the current directory as the root directory. If you want to specify a root directory, you can use

```
>> jupyter notebook --notebook-dir path/to/directory
```

7. Clone repo using git

```
>> git clone https://github.com/nyumc-dl/BMSC-GA-4493-Spring2018.git
```

8. Demo on Jupyter notebook