For data loader, train images in k-space need to be read by *h5py.File()* to store in a h5py format. *Show\_slices()* can visualize slices in the sample as k-space images. By using functions *T.to\_tensor()*, *T.ifft2()* and *T.complex\_abs()*, k-space data can be transformed to real images. As the whole dataset needs to be divided into two parts, train data and validation data to avoid overfitting, *Load\_data\_path* consisting of *data\_path\_train* and *data\_path\_val* aims at helping go through each subset and list all the file names, the file paths and the slices of subjects in the training and validation sets to generate a data list. A data list must include fname, raw data and slices. Then, raw data needs to be shaped 3 or more dimensions for further use and analysis. In MRIdataset, acceleration, center fraction and seed need to be defined for data processing which will be talked about in Experiment section.