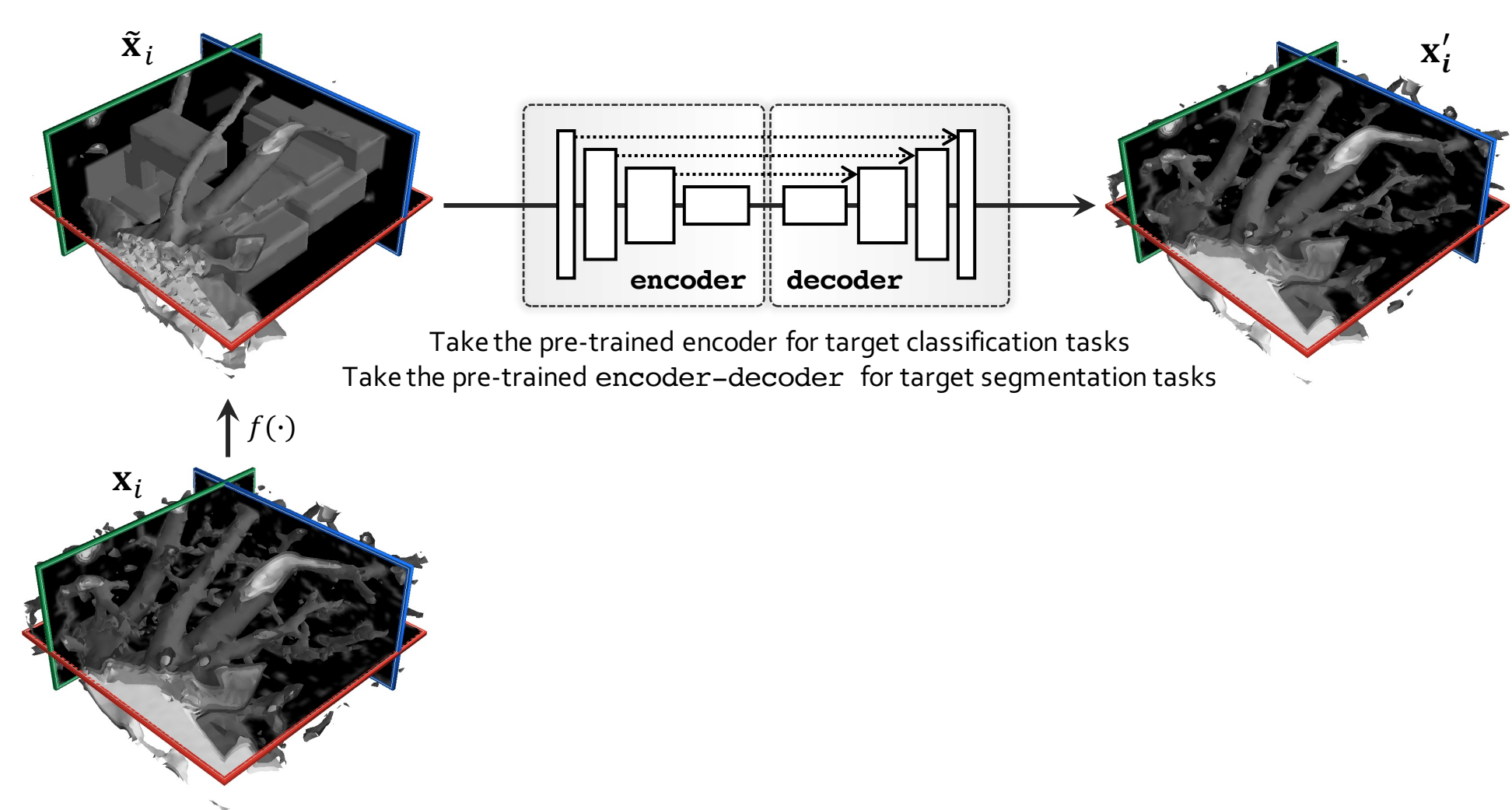
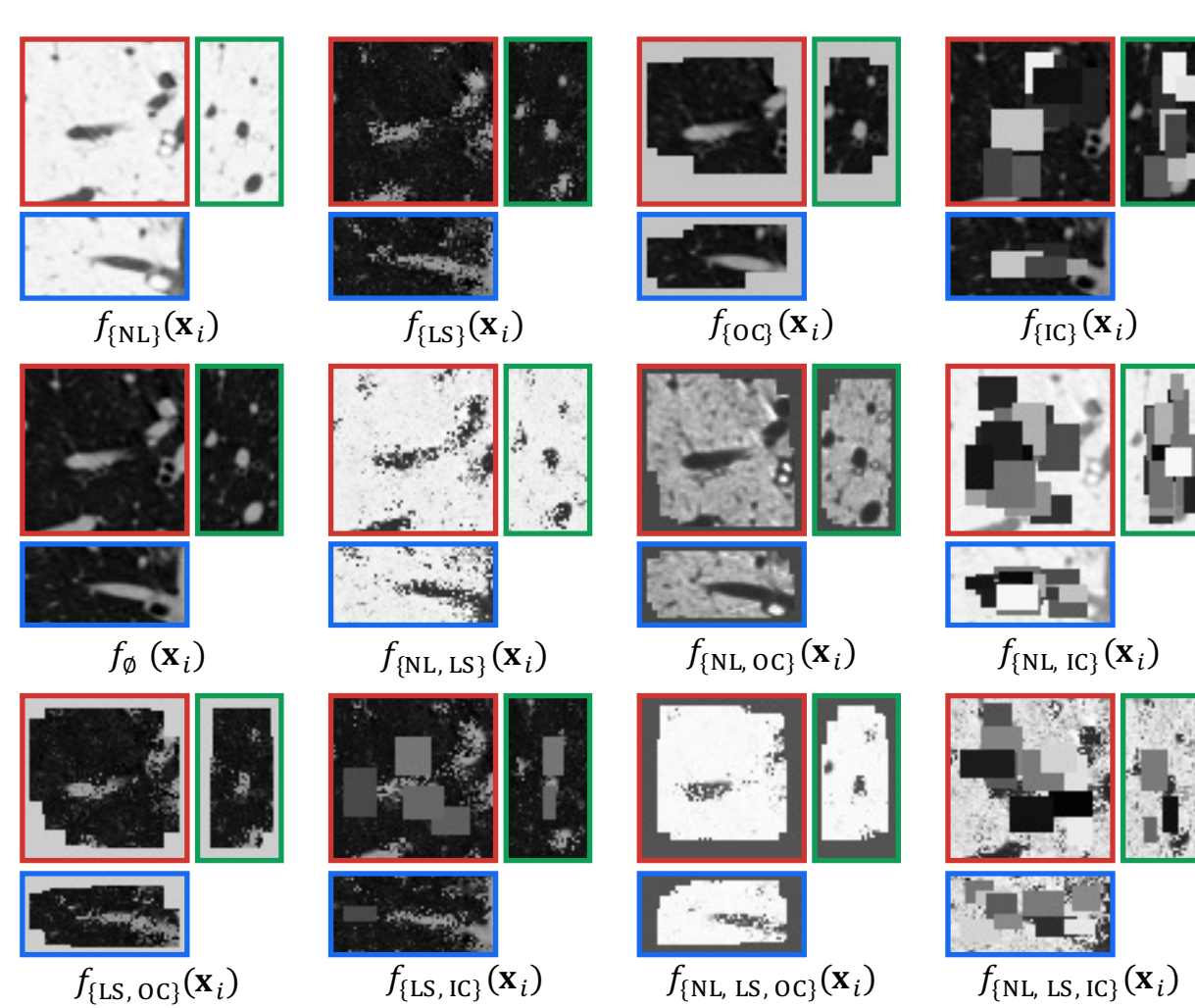


$f(\cdot)$: Transformation
 NL: Non-linear
 LS: Local-shuffling
 OC: Outer-cutout
 IC: Inner-cutout



1. Crop a 3D sub-volume from the original CT scan

2. Elect image transformations to the sub-volume (\mathbf{x}_i)

3. Train a model to restore the original sub-volume