CM Rep Regression

- 0. Run VTKtoMHD.py in CMRepScript
 - Change .vtk to MHD
 - Run c3d to change mhd to nii.gz
- 2. Initialize CM-Rep
 - 1. Run cmrep fit by running cmrep.sh
 - 2. Change cmrep parameter file .cmrep
 - a. Grid.Model.Coefficient.FileName = [TEMPLATE_VTK_FILE_PATH]
 - 3. Change cmrep estimation parameter file cmrparam.txt
 - a. DefaultParameters.LocalDistancePenaltyTerm.ReferenceModel.Element[0]=[CM REP_PARAM_FILE_PATH]
 - 4. Put target segmentation label .nii.gz in the same folder
 - 5. Update cmrep.sh with given paths
 - a. cmrep_fit [cmrparam.txt] [def1.cmrep] [target.nii.gz] [outputfolder]
- 2. Move CM-Rep results file to a Regression folder

/media/shong/IntHard1/4DAnalysis/Code/SPTSkeleton/DeformetricaTest/CMRep_Regression Test/TestData

- 3. Check Orientation of Observation shapes and CM-Rep boundary
 - If necessary, vtkChangeOrientation.py
- 3. Assign Radius values to boundary and CM-Rep
 - 1. RadiusFunctionCopy.py
 - a. Change vtkPath to CM-Rep vtks in regression folder
 - 2. RadiusFunctionToBndr.py
 - a. BndPath: target shape path
 - b. vtkPath: CMRep path
- 4. Check regression params
 - Cmrep_pair_00.dat
 - Ages in paramdiffeos.xml
 - Ages in reg_call.sh
- 5. Run regression
 - Reg call.sh
- 6. assignRadiusToRegression.py
- 7. reconBoundaryReg_script.py
- 8. Update Radius Fields
 - cmrep fit (check cmrep.sh in the folder)
- 9. Repeat from 5.