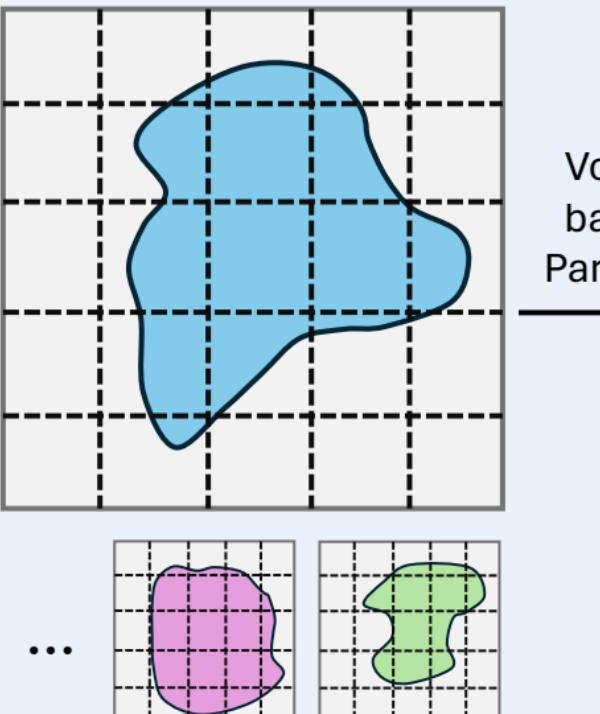
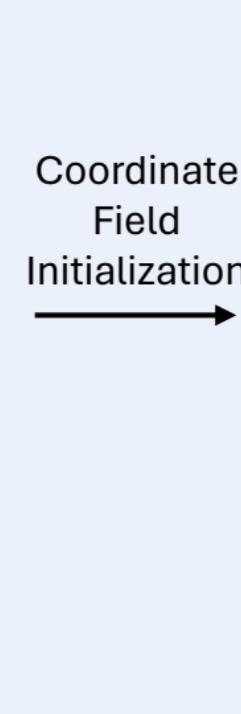


Data Preparation

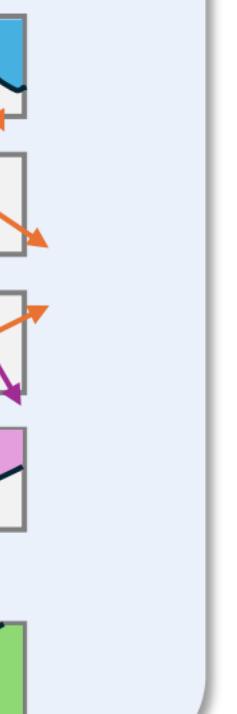
Training Shapes
(in Normalized Scale)



Local Shapes
(in Local Voxels)



Local Shapes
w. Coordinate Frames



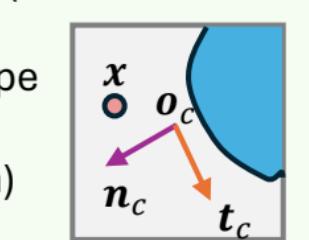
Voxel-based Partition

Coordinate Field Initialization

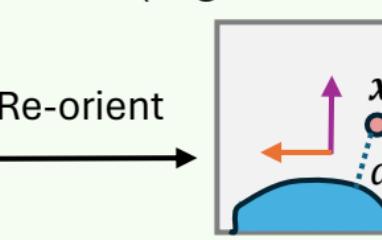
Model

Train

Point x
(World Coordinate)



Transformed Point x_c
(Aligned Coordinate)

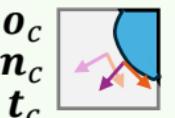


Prediction



Optimized Parameters

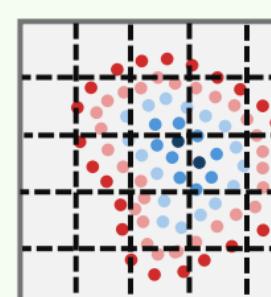
MLP



Inference

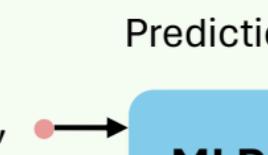
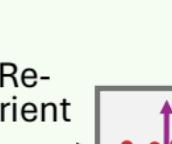
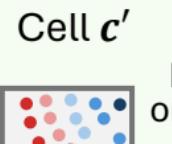
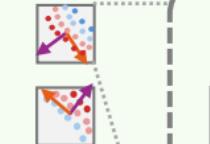
Test Points
w. SDF values

- outside
- inside



Partition & Init.

Re-orient



Optimized Parameters

