

As Time Goes By



Wear and tear stairs



Old staircase



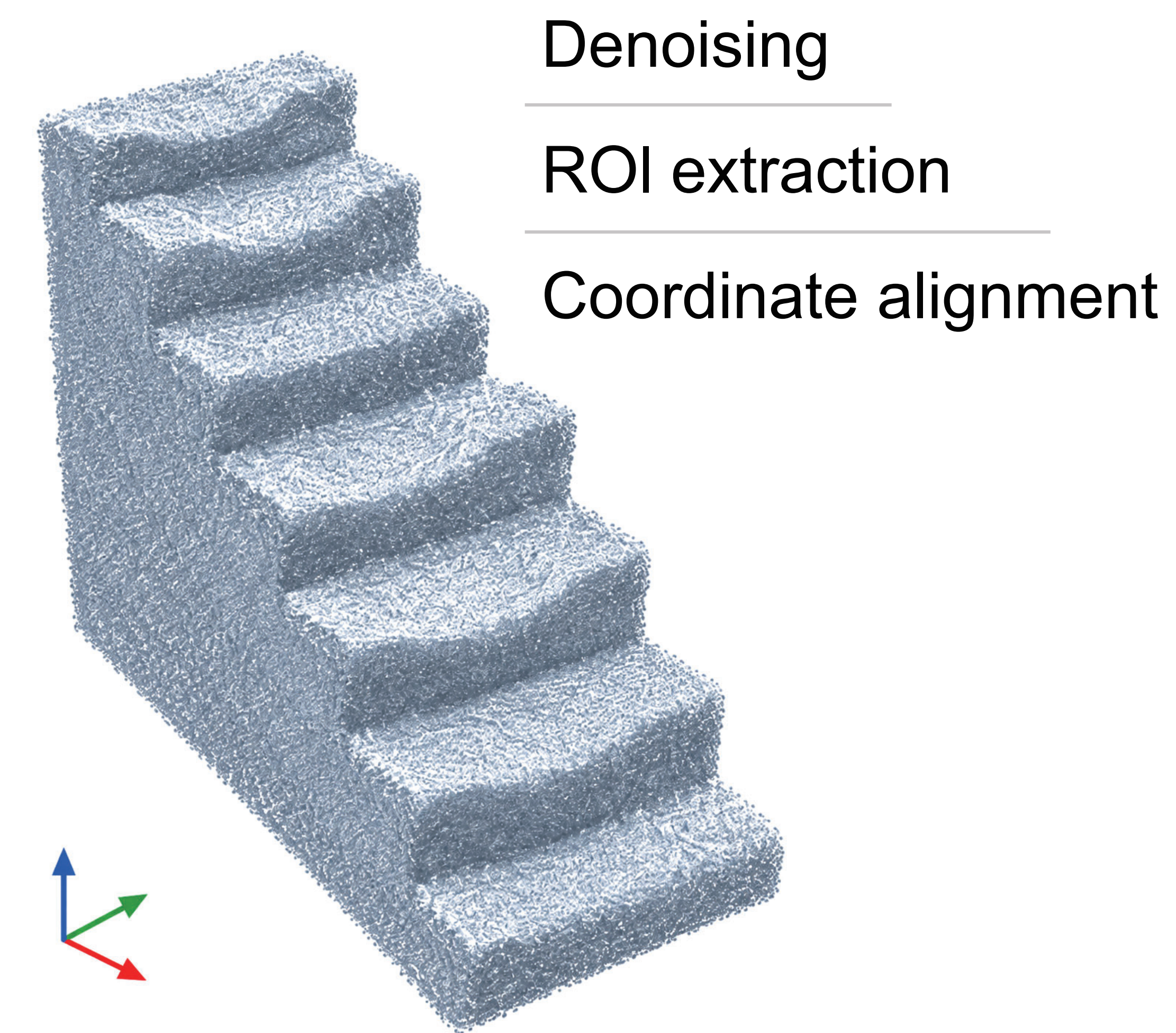
New staircase

A Field 3D acquisition (non-destructive)

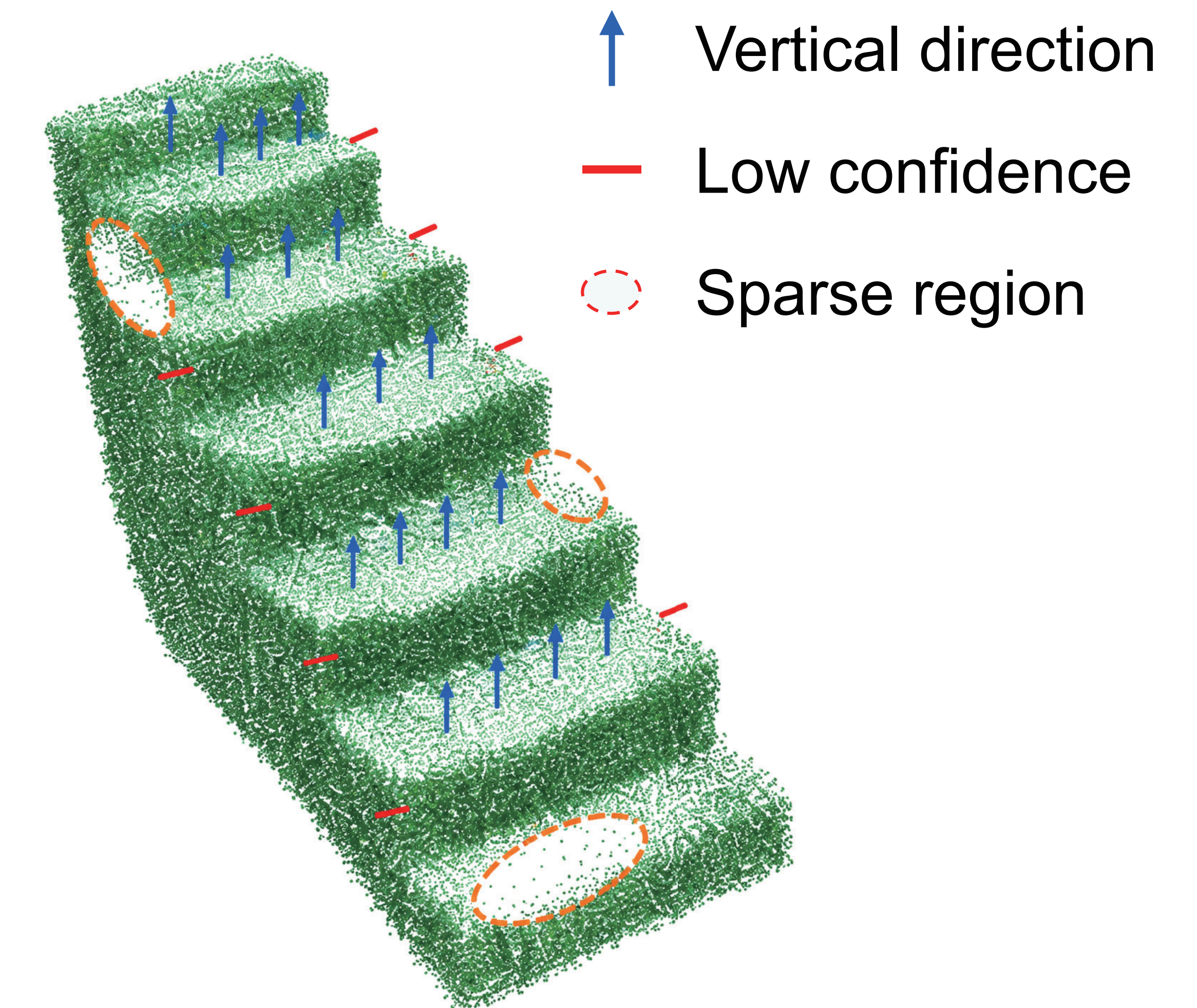


Intel RealSense D455
Non-contact 3D scanning of worn stone staircase

B Raw point-cloud preprocessing

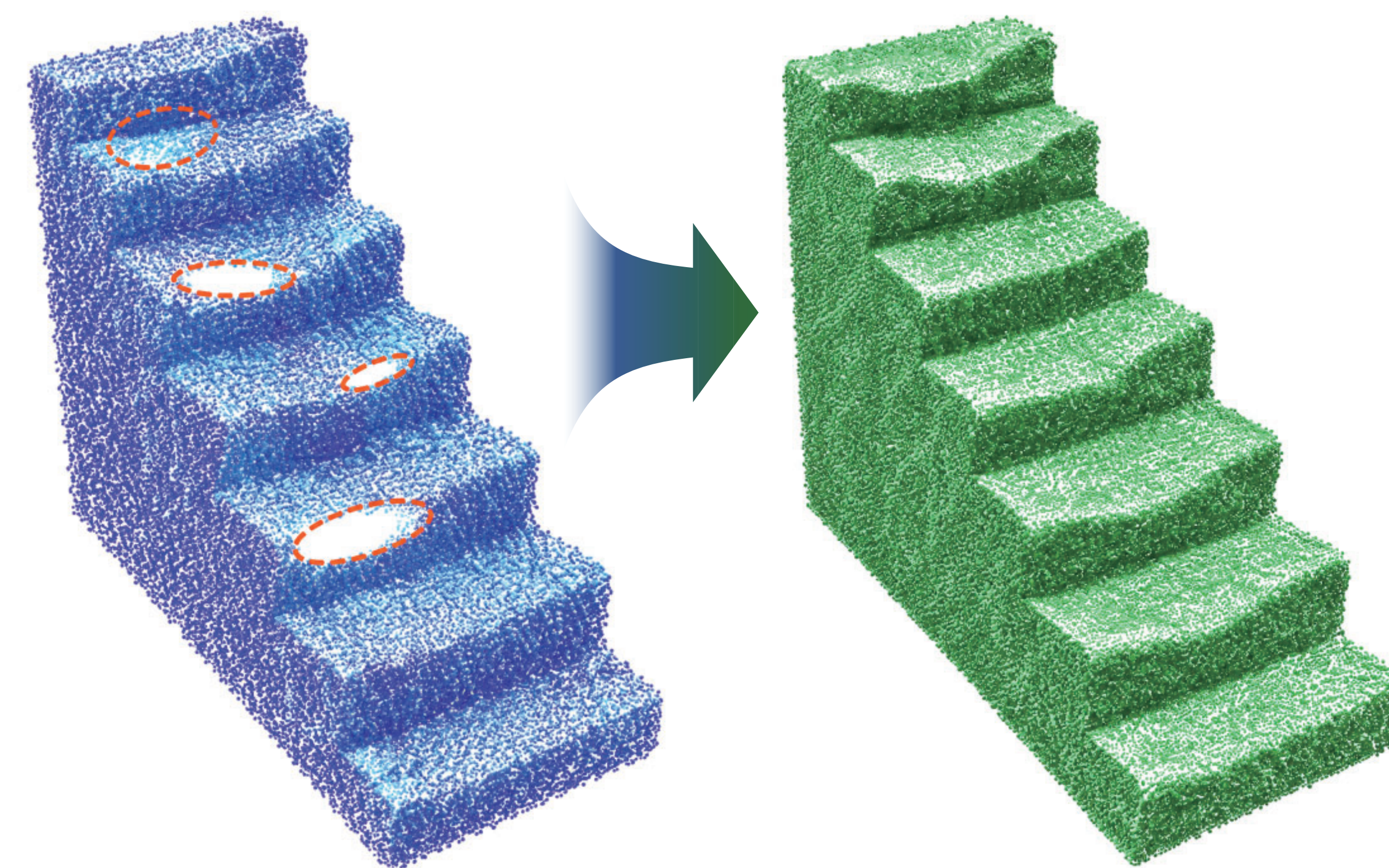


C Surface orientation and quality assessment



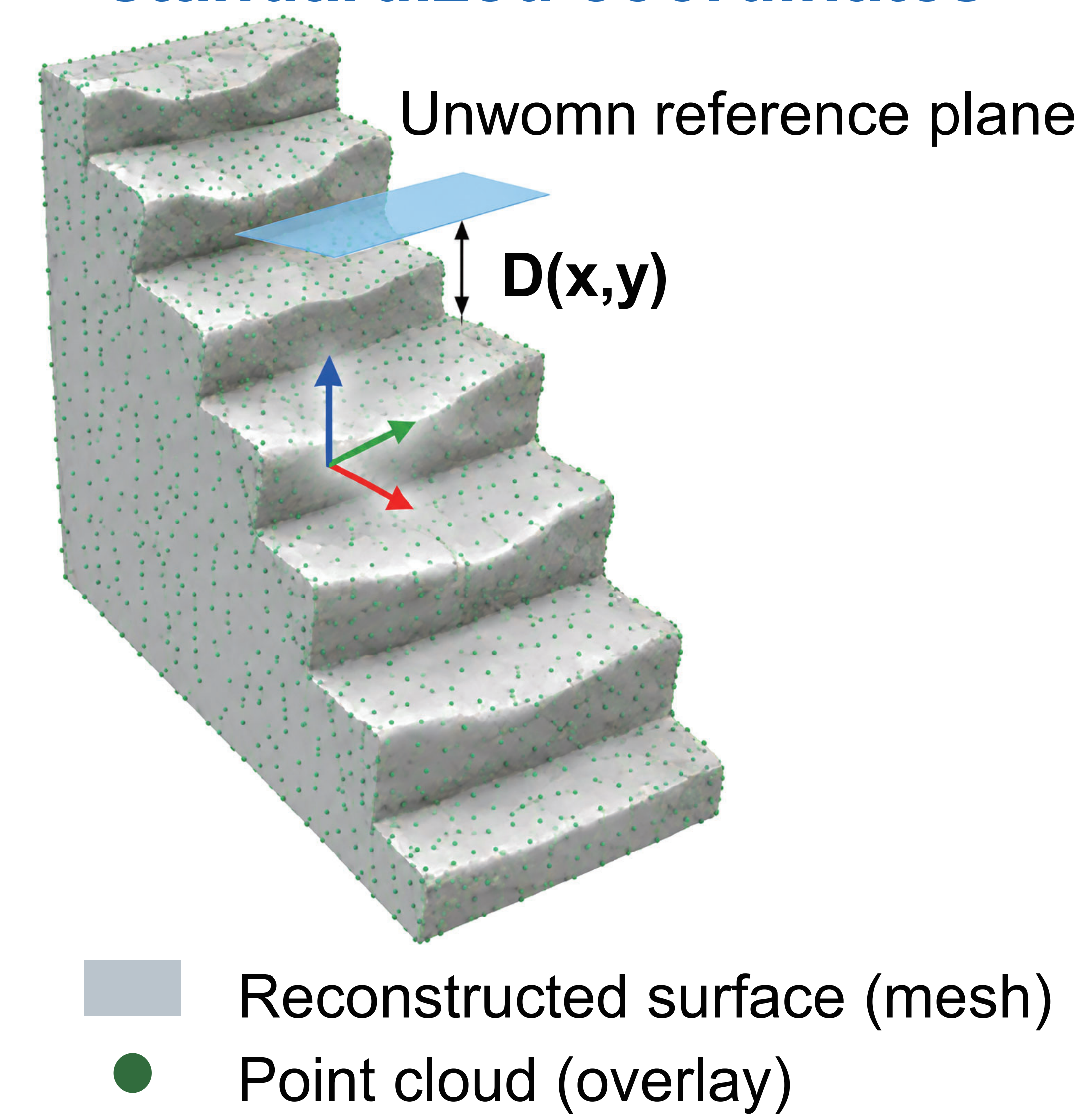
D Missing-region completion

Incomplete point cloud (with missing regions) Completed point cloud (interpolated)

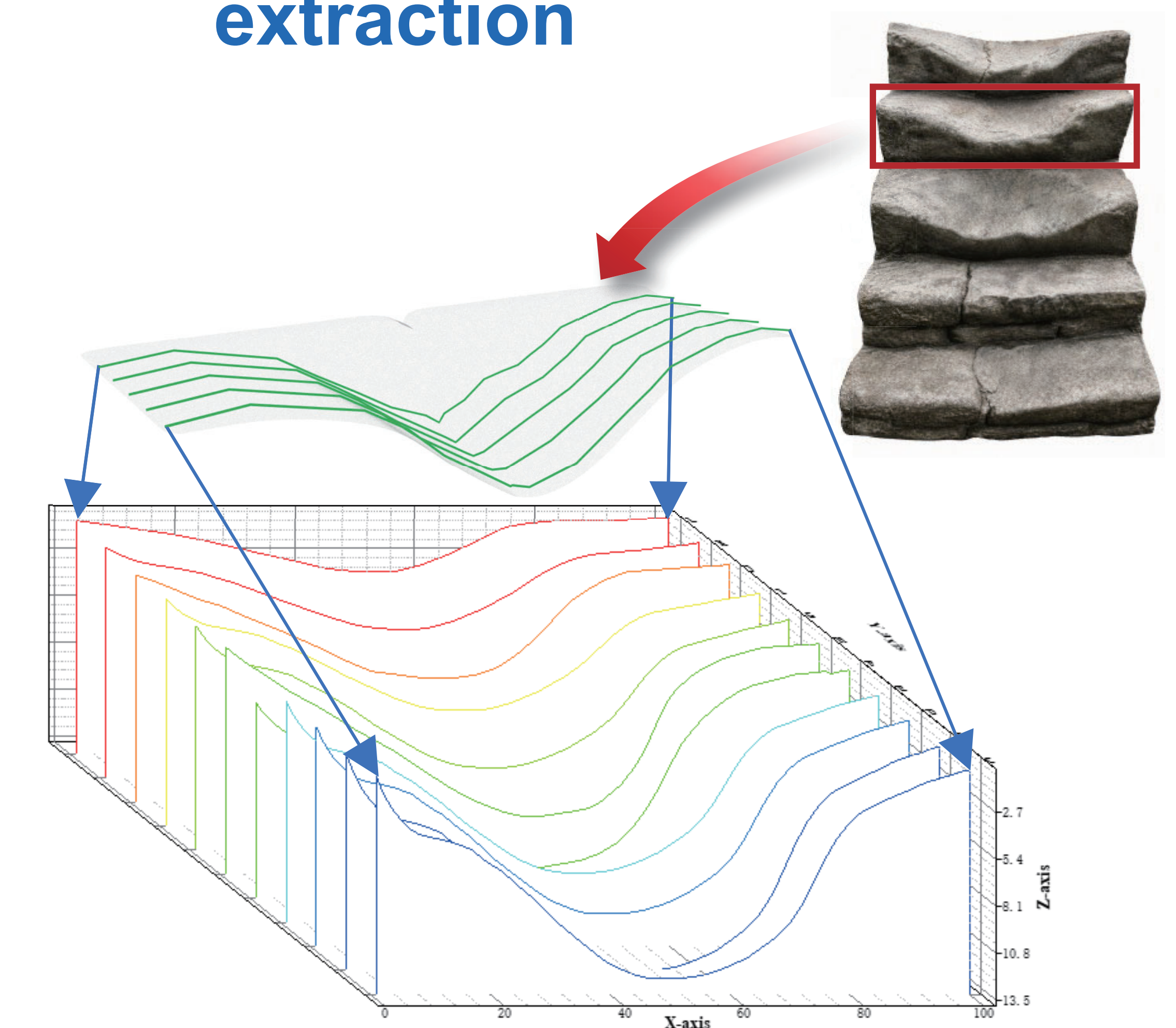


Missing region Interpolated region

E Surface reconstruction and standardized coordinates



F Morphometric parameter extraction



Longitudinal x-z profile (averaged)