Sparse Point Cloud
q

Local Patch

Distance Indicator f_θ

$d_l \xleftarrow{L_1} d_{gt}$

$d'_l \xleftarrow{L_{\text{local}}} 0$

q

Implicit Field g_φ

$\nabla g_\varphi(q)$

$g_\varphi(q)$

Projection

q'

Output Point Cloud

● Query ● Projected Point ➤ Local Prior Learning ➤ Field Learning ➤ Inference