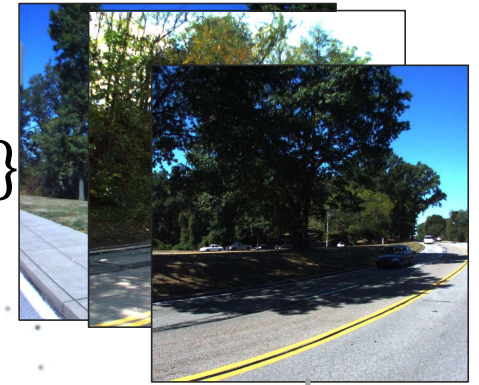
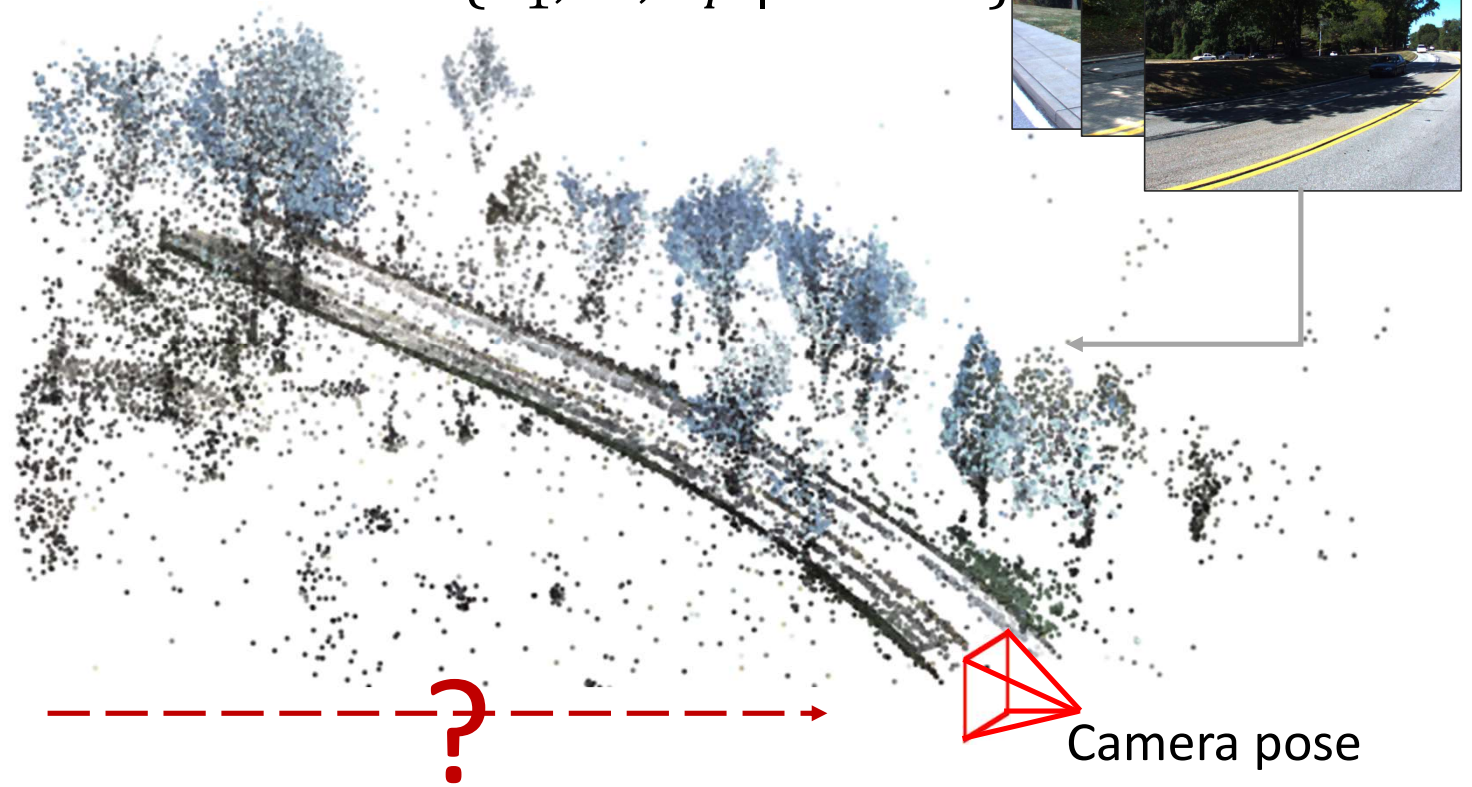


## 3D scene reconstruction

$$\mathcal{X} = \{X_1, \dots, X_P \mid X \in \mathbb{R}^3\}$$

query image (2D)

$$I_q \in \mathbb{R}^{H \times W}$$



Camera pose

$$(R, \mathbf{t}), \\ R \in SO(3), \\ \mathbf{t} \in \mathbb{R}^3$$