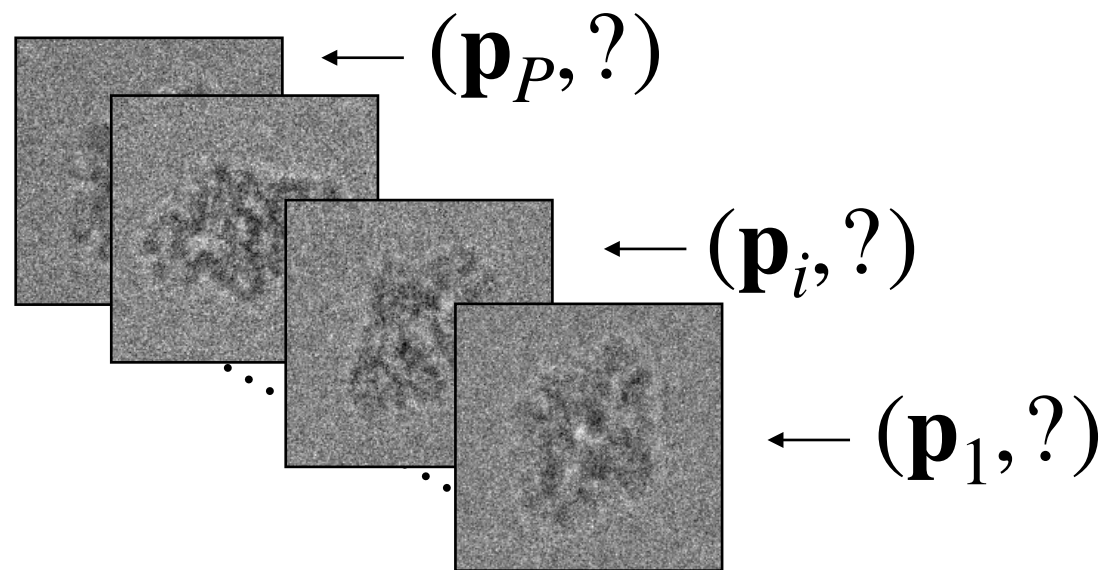
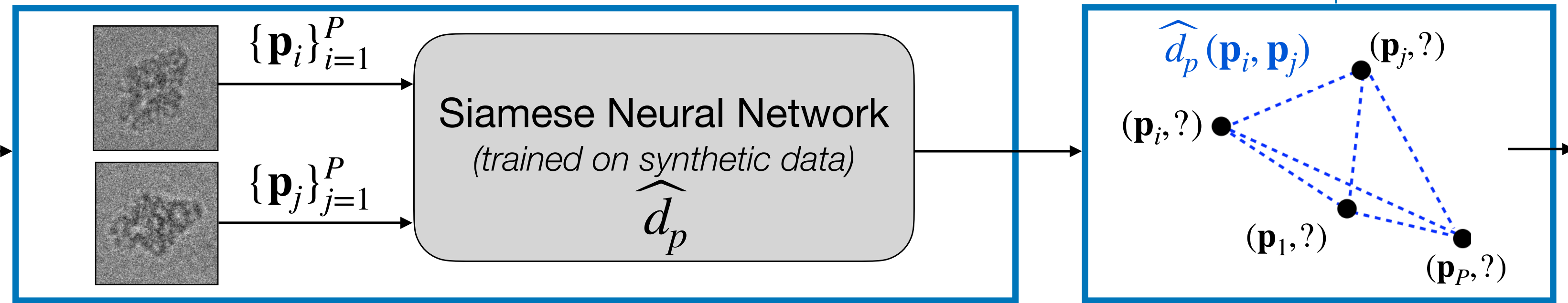


Inputs: Acquired Projection Dataset



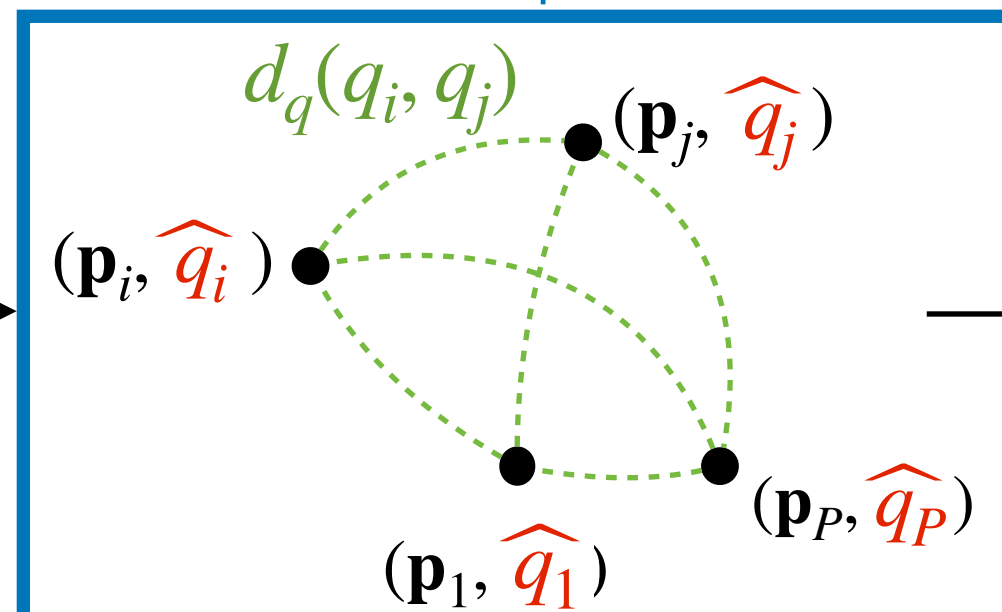
Step 1: Estimate Distances



Step 2: Recover Orientations

$$\{\hat{q}_i\}_{i=1}^P = \arg \min_{\{q_k \in \mathbb{S}^3\}} \sum_{i,j} |\hat{d}_p(\mathbf{p}_i, \mathbf{p}_j) - d_q(q_i, q_j)|^2$$

Intermediate Representation



Outputs: Recovered Orientations

